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Budget

SMITHSONIAN INSTITUTION

Budget Justifications for the Fiscal Year 1973

Submitted to the Committees on Appropriations

Congress of the United States



January 1972



SMITHSONIAN INSTITUTION

FISCAL YEAR 1973 ESTIMATES OF APPROPRIATIONS

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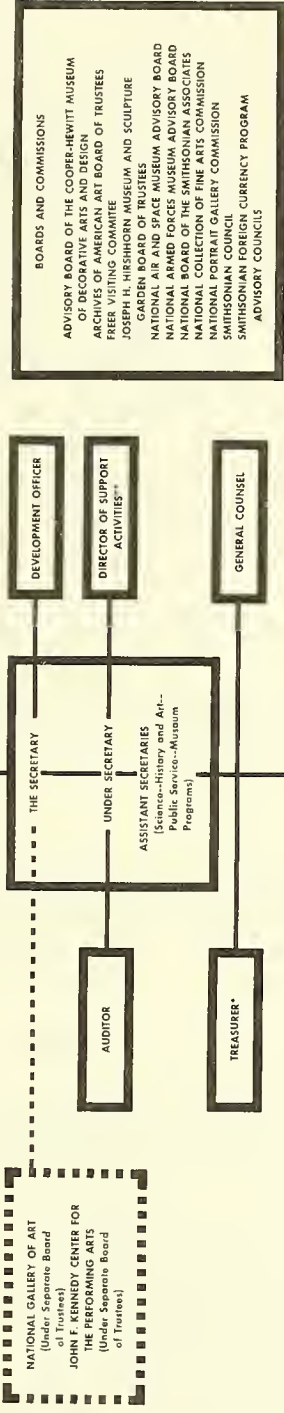
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SMITHSONIAN INSTITUTION

BOARD OF REGENTS



BOARDS AND COMMISSIONS

ADVISORY BOARD OF THE COOPER-HEWITT MUSEUM OF DECORATIVE ARTS AND DESIGN
 ARCHIVES OF AMERICAN ART BOARD OF TRUSTEES
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 NATIONAL BOARD OF DECORATIVE ARTS
 NATIONAL BOARD OF SCULPTURE GARDEN TRUSTEES
 NATIONAL COLLECTION OF FINE ARTS COMMISSION
 NATIONAL PORTRAIT GALLERY COMMISSION
 SMITHSONIAN COUNCIL
 SMITHSONIAN FOREIGN CURRENCY PROGRAM ADVISORY COUNCILS

BUREAUS AND ACTIVITIES

WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS
 (Under Separate Board of Trustees)

SCIENCE

CENTER FOR THE STUDY OF MAN
 NATIONAL AIR AND SPACE MUSEUM
 NATIONAL MUSEUM OF NATURAL HISTORY
 NATIONAL ZOOLOGICAL PARK
 OFFICE OF ENVIRONMENTAL SCIENCES
 RADIATION BIOLOGY LABORATORY
 SMITHSONIAN ASTROPHYSICAL OBSERVATORY
 SMITHSONIAN SCIENCE INFORMATION EXCHANGE, INC.
 SMITHSONIAN TROPICAL RESEARCH INSTITUTE

HISTORY & ART

ARCHIVES OF AMERICAN ART
 COOPER-HEWITT MUSEUM OF DECORATIVE ARTS AND DESIGN
 FREER GALLERY OF ART
 JOSEPH H. HIRSHORN MUSEUM AND SCULPTURE GARDEN
 JOSEPH HENRY PAPERS
 NATIONAL ARMED FORCES MUSEUM ADVISORY BOARD
 NATIONAL COLLECTION OF FINE ARTS
 SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE
 RENWICK GALLERY
 NATIONAL MUSEUM OF HISTORY AND TECHNOLOGY
 NATIONAL PORTRAIT GALLERY
 OFFICE OF ACADEMIC STUDIES
 OFFICE OF ARCHIVES
 SMITHSONIAN ARCHIVES

PUBLIC SERVICE

ANACOSTIA NEIGHBORHOOD MUSEUM
 BELMONT CONFERENCE CENTER
 DIVISION OF PERFORMING ARTS
 OFFICE OF ELEMENTARY AND SECONDARY EDUCATION
 OFFICE OF EDUCATIONAL ACTIVITIES
 OFFICE OF PUBLIC AFFAIRS
 SMITHSONIAN ASSOCIATES
 SMITHSONIAN INSTITUTION PRESS
 SMITHSONIAN MAGAZINE
 SMITHSONIAN MUSEUM SHOPS

MUSEUM PROGRAMS

SMITHSONIAN AND NATIONAL MUSEUM PROGRAMS
 CONSERVATION ANALYTICAL LABORATORY
 OFFICE OF EXHIBITS PROGRAMS
 OFFICE OF THE REGISTRAR
 SMITHSONIAN INSTITUTION LIBRARIES
 INTERNATIONAL EXCHANGE SERVICE

*FINANCIAL SERVICES

ACCOUNTING
 BUSINESS MANAGEMENT
 INVESTMENTS
 PROGRAMMING AND BUDGET

**SUPPORT ACTIVITIES

CONTRACTS
 Duplicating
 ADMINISTRATIVE SYSTEMS
 BUILDINGS MANAGEMENT
 EQUAL EMPLOYMENT OPPORTUNITY
 INFORMATION SYSTEMS (ADP)
 PERSONNEL ADMINISTRATION
 PHOTOGRAPHIC SERVICES
 SUPPLY
 TRAVEL SERVICES

APPROVED SEPTEMBER 29, 1971
S. Dilson Ripley
 S. DILSON RIPLEY
 SECRETARY

SMITHSONIAN INSTITUTION

FISCAL YEAR 1973 ESTIMATES OF APPROPRIATIONS

GENERAL STATEMENT

In September 1971 the Smithsonian Institution celebrated its 125th anniversary. Our growth and public service contributions over this period have been noteworthy. The Institution now maintains public exhibits in eight buildings representative of the arts, American history, aeronautics and astronautics, technology, anthropology, and the natural sciences. The Renwick Gallery of American design and crafts joined this distinguished company in January 1972. The National Zoological Park presents living animal exhibits. We preserve for reference, exhibit, and study millions of items of scientific, cultural, and historic importance. Research is performed throughout the world in a wide range of the natural and physical sciences and in the history of cultures, technology, and the arts. We present performances of American folk arts and crafts in order to help keep alive the rich cultural traditions of the Country. Education programs are conducted throughout the Institution at all academic levels. Publication, information, traveling exhibition, and neighborhood museum programs help to bring the wealth of Smithsonian resources to those persons unable to visit our major museums and our research laboratories.

The Smithsonian's FY 1972 budget presentations identified a number of continuing goals and objectives. These remain valid and provide the context for consideration of our budget requirements for the coming year. For FY 1973, the Institution is requesting appropriations totaling \$106,923,000 distributed among four major budget categories.

| | <u>Base for FY 1973</u> | <u>Requested Increase</u> | <u>FY 1973 Estimate</u> |
|----------------------------------|-----------------------------|-------------------------------|-----------------------------|
| "Salaries and Expenses" | \$44,170,000 ^{1/} | \$ 8,794,000 | \$ 52,964,000 |
| Science Information Exchange | 1,300,000 | 300,000 | 1,600,000 |
| Special Foreign Currency Program | 3,500,000 | 2,500,000 | 6,000,000 |
| Construction | <u>6,347,000</u> | <u>40,012,000</u> | <u>46,359,000</u> |
| Totals | \$55,317,000 | \$51,606,000 | \$106,923,000 |

Highlights of the Institution's program plans are as follows.

Support the quality of the professional staff effort within the Smithsonian to sustain the basic scholarly program.

The attainment of this objective depends largely on achieving an adequate level of technical and financial support for our scientists and historians. With the close backing of the President and the Congress, the Institution made a substantial breakthrough in its FY 1972 appropriation by winning additional technician, electronic data processing development, and research project funding for the National Museum of Natural History. The Smithsonian Astrophysical Observatory is enabled to undertake the first phase of its multimirror telescope development. Additional funding for the Chesapeake Bay Center, the Smithsonian Tropical Research Institute, and for the Radiation Biology Laboratory is permitting these biological research stations to play more active and productive roles in understanding ecological forces through interdisciplinary research studies. Our research scholars are studying and documenting for publications and exhibitions man's cultural, technological, and artistic achievements. The vigorous prosecution of mutually reinforcing lines of collection,

^{1/} Excludes \$531,000 not restored to base by the Office of Management and Budget for a total FY 1972 appropriation of \$44,701,000.

laboratory, and field studies of national concern is one of our major objectives. These programs remain among our very highest priorities in the FY 1973 budget requests. Throughout the Institution there are increasing instances of inter-bureau cooperation. References to this activity, which strengthens and unifies the Smithsonian as a single organization devoted to research and public services, appear throughout the program descriptions appearing in this budget.

Emphasize the Smithsonian's role as a community of educators

We are an institution for communicating with the public at large. To do this we serve a dual educational role. By making our collections, library, and research facilities available to students and to pre- and post-doctoral visitors who work under the supervision and guidance of our professional staff, we offer a rich variety of resources and perspectives available for productive research and training in scientific and humanistic endeavors. In turn, these students and visiting researchers bring an infusion of knowledge and vitality to our own research efforts.

Our second role is to make our exhibits more useful to elementary and secondary schools as provocative supplements to classroom instruction. We do this through guided tours and the preparation and distribution of traveling exhibits, classroom use publications, and other home and classroom audio and visual materials. The development of our Academic and Educational Programs and of the related educational programs in our national museums and galleries continues to occupy our closest attention.

Contribute to the reappraisal of the American Experience by portraying our Nation's course over the past 200 years and suggesting paths for our continued development

The Smithsonian Institution is preparing to play a central and major role in the celebration of the Bicentennial of the American Revolution. The Bicentennial presents an opportunity for a wide-ranging and creative use of the Smithsonian's great capabilities and resources. We welcome the challenge and believe that our program, which has as a theme The American Experience, will meet all expectations. We will offer imaginative and exciting events and, at the same time, we will make contributions that will continue to reward the general public and the scholarly community for many years to come. The Bicentennial undertaking at the Smithsonian will involve almost every department. Key roles will be played by the National Museum of History and Technology, the National Collection of Fine Arts, the National Portrait Gallery, and the proposed Bicentennial Outdoor Museum.

With the support of the FY 1971 and 1972 appropriations for this purpose, and with every possible commitment of the Institution's regular budget, we have completed an overall Bicentennial plan and have made a strong beginning on the program itself. The work must be spread out over the intervening years, allowing lead time for the research, design, collecting, and construction which go into the production of major exhibitions, and for the nationwide information-gathering that must take place. Phased scheduling will assure completion of the various program components by the Bicentennial year.

Closely related to this effort is the work and regular program plans of other history and art activities, our neighborhood museum, and our performing arts group. The Joseph H. Hirshhorn Museum and Sculpture Garden will be completed in about December 1972 and after essential outfitting, with funds requested in the FY 1973 budget, and exhibits installation will be open to the

public. At a time of rapidly changing technology and national and international tensions, there is an urgent need to discover and appreciate man's special cultural traditions and achievements.

Improve man's understanding of the physical and natural environment upon which human society depends

FY 1971 and 1972 funds were appropriated for coordinated environmental research at the Smithsonian. This support enabled the separate bureaus of the Institution for the first time to develop jointly a plan to monitor, assemble, and analyze biological and physical data on specific important ecosystems, hopefully to help predict the consequences of environmental change, and, thereby, contribute to better management of our natural world. The Institution has unique capabilities for such studies. These include highly competent personnel; the largest collections of plants and animals in the world (with detailed distribution, abundance, and other associated data); long-term experience with measuring the characteristics of solar radiation reaching the earth and other astrophysical data; and the availability of permanent and protected field-research sites in both temperate and tropical zones. In addition, the Smithsonian enjoys particularly favorable relations with its scientific colleagues and institutions in virtually every country of the world.

Environmental Sciences Program activity has included such priority items as the organization of an interdisciplinary program and establishment of a continuing mechanism for its operations; the selection of sites of highest priority for study; and the implementation of interrelated studies of these sites.

The "World of Living Things", initiated in FY 1972, is a major exhibition now under production in the National Museum of Natural History to serve as an introduction to ecology and the exposition of worldwide environmental balances and imbalances. Scheduled completion is mid-FY 1973 with funding requested in that year's budget.

Establish a great national museum on the Mall to recreate the experience of man's great adventure: flight and space exploration

The redesign of the National Air and Space Museum building is well underway using the \$1,900,000 appropriated to the Smithsonian in the current fiscal year. This redesign will be completed and we will be ready to award a construction contract in FY 1973. We are requesting construction funds of \$40,000,000 plus essential additional operating funds for the National Air and Space Museum itself to enable it to step-up the very substantial job of research, collections preparation, and exhibits planning and production that must take place while the building is under construction if the July 4, 1976 opening date is to be met.

This building, in addition to being a showcase for historic machines, will also encompass a wide variety of educational exhibits concerned with the new science and technology of the Space age. The public will be able to see gathered together under one roof, for the first time, an explanation of how man has used a broad range of disciplines to achieve flight, and how he may extrapolate these into the future. The impact of flight upon our environment and our culture will be investigated and exhibited to the public using the latest multi-media techniques.

Respond to the needs of the Nation's museums to assist them present to their public an appreciation of the past and portents of the future

Public Law 91-629 approved December 31, 1970, reauthorized appropriations for the National Museum Act through FY 1974 and funding of \$1,000,000 to the Smithsonian Institution each year. Of this amount \$600,000 was granted by the Congress for FY 1972. Funding at the full \$1,000,000 as requested in the FY 1973 budget will permit the Smithsonian Institution to support fully all aspects of the National Museum Act.

The requested total funding would be used to meet the following basic needs of the nation's museums: cataloging and data access; museum laboratory centers, especially for conservation of the Nation's treasures; training of museum personnel; research in museum techniques; and the preparation of manuals of instruction.

Improve the management of scientific and scholarly information

In our role as custodian of the Nations' collections and as a principal producer of basic research we must try to serve the public interest in improved management of scientific and scholarly information. Closely related to this effort must be the conservation and preservation of the sources of this information. The FY 1972 appropriation provided some slight additional support for this need. We must do better. In order to show more effectively how improved management would serve Smithsonian needs for research and public needs for exhibition, publications, and problem solving, the FY 1973 budget request brings together under the heading of "Documentation and Conservation" our requirements for photography, the accessibility of archives, library resources, and the conservation of the National Collections.

In order to obtain these objectives the Institution must also develop an adequate level of administrative and other supporting services including the maintenance, operation, and protection of buildings and facilities.

The budget estimates to help accomplish the Smithsonian's goals and objectives are presented in four sections:

- A. "Salaries and Expenses" for regular operating programs in the museums, galleries, zoological park, research laboratories, and other program units; for special programs of an Institution-wide nature and of unusual importance for national research, education, exhibition, and museum assistance needs; for documentation and conservation; and for program support purposes..... \$52,964,000
- B. "Salaries and Expenses" of the Science Information Exchange..... \$ 1,600,000
- C. Special Foreign Currency Program in archeology and related disciplines, systematic and environmental biology, astrophysics and earth sciences, and museum programs (dollar equivalent) \$ 6,000,000
- D. Planning, restoration, renovation, and construction related to Smithsonian buildings and facilities \$46,359,000

Each of these requests is summarized below and justified in the following sections of the budget.

A. "Salaries and Expenses"

| | | |
|--------------------|---------------------------|----------------------|
| <u>1971 Actual</u> | <u>1972 Appropriation</u> | <u>1973 Estimate</u> |
| \$36,895,000 | \$44,170,000 | \$52,964,000 |

The total increase, including program and necessary pay funds, requested for "Salaries and Expenses" is \$8,794,000, distributed by program as follows (see pages A-2 and A-3 for organizational distribution):

| <u>(In thousands of dollars)</u> | | |
|----------------------------------|------------------|-----------------|
| <u>Base for</u> | <u>Requested</u> | <u>FY 1973</u> |
| <u>FY 1973</u> | <u>Increase</u> | <u>Estimate</u> |
| \$15,881 | \$2,199 | \$18,080 |

Science

To correct serious deficiencies in the availability of technicians and other supporting staff, scientific equipment, services, and laboratory supplies and materials, and to augment programs with key professional research staff and improved instrumentation in order that the Smithsonian can continue its traditional basic investigations and educational services in anthropology, biology, geology, and the space sciences and technology which are fundamental to a better understanding of man and his environment.

History and Art

| | | |
|----------|---------|---------|
| \$ 5,615 | \$2,298 | \$7,913 |
|----------|---------|---------|

To provide essential professional and support staff, objects for the collections, and services, supplies, and equipment, furnishings, and fixtures required for the basic operations of the Institution's established and developing museums and art galleries in order that they can tell the story of this Country's growth and development to millions of Americans and citizens of other countries through research, exhibition, education, and publications programs.

Public Service

| | | |
|--------|--------|---------|
| \$ 937 | \$ 245 | \$1,182 |
|--------|--------|---------|

To provide additional support to certain of those Smithsonian activities which reach out to serve a wider public.

Special Programs

| | | |
|----------|---------|---------|
| \$ 2,902 | \$1,373 | \$4,275 |
|----------|---------|---------|

This funding is aimed at strengthening the Institution's ability to perform special research projects, present important and timely exhibitions, and extend its public education and museum assistance services.

(In thousands of dollars)

| | <u>Base for FY 1973</u> | <u>Requested Increase</u> | <u>FY 1973 Estimate</u> |
|---------------------------------------|-----------------------------|-------------------------------|-----------------------------|
| <u>Documentation and Conservation</u> | \$1,759 | \$ 597 | \$2,356 |

Requested appropriation will permit the Smithsonian to improve the conservation of objects, the acquisition and processing of library materials documenting collections and research, and the restoration, preservation, and cataloging of archival and photographic materials.

| | | | |
|------------------------|----------|---------|----------|
| <u>Program Support</u> | \$17,076 | \$2,082 | \$19,158 |
|------------------------|----------|---------|----------|

Includes those administrative and support activities which serve the program functions of the Institution and maintain, operate, and protect buildings and facilities.

| | | | |
|--------|----------|---------|----------|
| Totals | \$44,170 | \$8,794 | \$52,964 |
|--------|----------|---------|----------|

B. Science Information Exchange

| <u>1971 Appropriation</u> | <u>1972 Appropriation</u> | <u>1973 Estimate</u> |
|---------------------------|---------------------------|----------------------|
| \$ <u>1/</u> | \$1,300,000 <u>2/</u> | \$1,600,000 |

A funding increase of \$500,000 is requested to meet the essential costs of maintaining and developing data input on research in progress as a national information service to the federal and nonfederal research communities.

- 1/ Funded under contract from the National Science Foundation at \$1,400,000 for 10 months (an annual rate of \$1,680,000).
- 2/ Excludes proposed supplemental of \$300,000.

C. Special Foreign Currency Program

| <u>1971 Appropriation</u> | <u>1972 Appropriation</u> | <u>1973 Estimate</u> |
|---------------------------|---------------------------|----------------------|
| \$2,500,000 | \$3,500,000 | \$6,000,000 |

The need is to provide adequate support, without a drain on hard dollars, for overseas archeological work, systematic and environmental biology, astrophysical and earth sciences studies, and museum programs. The development and expansion of regular programs, as well as the opening up of important new research possibilities, especially in India and Poland, have resulted in a rising demand for excess foreign currency funds by American Institutions of higher learning.

D. Renovation, Restoration, and Construction

| <u>1971 Appropriation</u> | <u>1972 Appropriation</u> | <u>1973 Estimate</u> |
|---------------------------|---------------------------|----------------------|
| \$7,125,000 | \$6,347,000 | \$46,359,000 |

Included in this request is \$675,000 for planning of the large cat exhibition and repairs at the National Zoological Park; \$5,409,000 for restoration, renovation, repairs, and improvements to Smithsonian buildings and facilities; \$40,000,000 for construction of the redesigned National Air and Space Museum; and \$275,000 for the construction planning of Bicentennial Park

Total 1973 Appropriations Requested \$106,923,000.

Tab A

"SALARIES AND EXPENSES"

Smithsonian Institution

"Salaries and Expenses"

Summary Statement

| | |
|--|----------------------------|
| Appropriation Act, FY 1972 | \$44,701,000 |
| Amount lapsing in FY 1972 due to employment limitations | <u>1,131,000</u> <u>1/</u> |
| Total of amounts shown on justifications as FY 1972 Appropriation adjusted | \$43,570,000 |
| Funds returned to base for FY 1973 | <u>600,000</u> <u>2/</u> |
| Base for FY 1973 | \$44,170,000 |
| Increase being sought for FY 1973 | <u>8,794,000</u> |
| Total, FY 1973 Estimates | \$52,964,000 |

1/ President's Budget shows amount of \$1,160,000 lapsing. Employment saving is \$1,131,000 minus \$25,000 returned in FY 1972. See pages A-2 through A-3 for distribution of \$1,131,000.

2/ See pages A-2 and A-3 for distribution of \$600,000.

SMITHSONIAN INSTITUTION

"Salaries and Expenses"

Summary of the 1971 and 1972 Appropriations and the 1973 Estimates

| Page No. | Unit | 1971 Actual | | 1972 Approp | | Lapse Rest | | 1973 Estimate | | Analysis of Increases | | |
|----------|---|-------------|----------|-------------|----------|------------|-------|---------------|----------|-----------------------|-------------|---------|
| | | Pos. | Amount | Pos. | Amount | (-) | (+) | Pos. | Amount | Nec Pay | Pos. Amount | |
| A-6 | Sciences | | | | | | | | | | | |
| A-7 | National Museum of Natural History | 271 | \$ 4,343 | 335 | \$ 5,725 | \$166 | \$ 88 | 373 | \$ 6,402 | \$175 | 38 | \$ 580 |
| A-12 | Smithsonian Astrophysical Observatory | 57 | 2,107 | 57 | 2,702 | 47 | 25 | 58 | 3,003 | 18 | 1 | 305 |
| A-14 | Smithsonian Tropical Research Institute | 45 | 639 | 52 | 783 | 21 | 11 | 58 | 854 | 42 | 6 | 39 |
| A-16 | Radiation Biology Laboratory | 40 | 954 | 46 | 1,157 | 20 | 11 | 48 | 1,329 | 26 | 2 | 155 |
| A-18 | Office of Environmental Sciences | 34 | 619 | 39 | 785 | 23 | 12 | 42 | 830 | 16 | 3 | 40 |
| A-20 | National Air and Space Museum | 41 | 631 | 44 | 761 | 23 | 12 | 64 | 1,227 | 12 | 20 | 465 |
| A-22 | Center for the Study of Man | 7 | 153 | 10 | 207 | 3 | 2 | 13 | 258 | 4 | 3 | 48 |
| A-24 | Center for Short-Lived Phenomena | 1 | 67 | 3 | 83 | 0 | 0 | 3 | 94 | 1 | 0 | 10 |
| A-26 | National Zoological Park | 247 | 3,163 | 286 | 3,871 | 109 | 58 | 286 | 4,083 | 78 | 0 | 185 |
| | Total Science | 743 | \$12,676 | 872 | \$16,074 | \$412 | \$219 | 945 | \$18,080 | \$372 | 73 | \$1,827 |
| A-29 | History and Art | | | | | | | | | | | |
| A-30 | Museum of History and Technology | 158 | \$ 2,242 | 157 | \$ 2,507 | \$ 79 | \$ 41 | 163 | \$ 2,773 | \$ 44 | 6 | \$ 260 |
| A-33 | National Collection of Fine Arts | 70 | 1,036 | 72 | 1,245 | 33 | 17 | 78 | 1,453 | 24 | 6 | 200 |
| A-35 | National Portrait Gallery | 38 | 782 | 39 | 908 | 21 | 11 | 46 | 1,104 | 16 | 7 | 190 |
| A-38 | Joseph H. Hirshhorn Museum and Sculpture Garden | 18 | 385 | 21 | 640 | 10 | 5 | 35 | 2,048 | 13 | 14 | 1,400 |
| A-41 | Freer Gallery of Art | 7 | 57 | 8 | 83 | 3 | 2 | 14 | 180 | 3 | 6 | 95 |
| A-44 | Archives of American Art | 0 | 166 | 11 | 181 | 6 | 3 | 12 | 208 | 5 | 1 | 25 |
| A-46 | National Armed Forces Museum Adv Bd | 8 | 154 | 6 | 126 | 5 | 3 | 7 | 147 | 3 | 1 | 20 |
| | Total History and Art | 299 | \$ 4,822 | 314 | \$ 5,690 | \$157 | \$ 82 | 355 | \$ 7,913 | \$108 | 41 | \$2,190 |
| A-47 | Public Service | | | | | | | | | | | |
| A-48 | Anacostia Neighborhood Museum | 11 | \$ 151 | 15 | \$ 183 | \$ 5 | \$ 3 | 18 | \$ 261 | \$ 5 | 3 | \$ 75 |
| A-50 | Office of International Activities | 8 | 138 | 9 | 146 | 5 | 3 | 10 | 170 | 6 | 1 | 20 |
| A-52 | International Exchange Service | 9 | 126 | 9 | 140 | 3 | 2 | 9 | 157 | 8 | 0 | 10 |
| A-53 | Division of Performing Arts | 7 | 215 | 7 | 208 | 5 | 3 | 10 | 294 | 2 | 3 | 86 |
| A-55 | Office of Public Affairs | 12 | 247 | 12 | 270 | 7 | 4 | 13 | 300 | 8 | 1 | 25 |
| | Total Public Service | 47 | \$ 877 | 52 | \$ 947 | \$ 25 | \$ 15 | 60 | \$ 1,182 | \$ 29 | 8 | \$ 216 |

| Page No. | Unit | 1971 Actual | | 1972 Approp. | | Lapse Rest to Base | | 1973 Estimate | | Analysis of Increases | |
|----------|---|-------------|----------|--------------|----------|--------------------|-------|---------------|----------|-----------------------|----------------|
| | | Pos. | Amount | Pos. | Amount | (-) | (+) | Pos. | Amount | Ncc Pay | Pos. Amount |
| A-56 | Special Programs | | | | | | | | | | |
| A-57 | American Revolution Bicentennial | 2 | \$ 400 | 2 | \$ 400 | \$ 5 | \$ 5 | 2 | \$ 1,000 | \$ | 0 \$ 600 |
| A-64 | Environmental Sciences Program | 3 | 150 | 8 | 275 | 4 | 4 | 8 | 275 | 0 | 0 250 |
| A-66 | Major Exhibitions | 0 | 0 | 0 | 525 | 0 | 0 | 0 | 775 | 0 | 0 400 |
| A-67 | National Museum Act | 0 | 0 | 3 | 600 | 0 | 0 | 3 | 1,000 | 0 | 0 250 |
| A-69 | Academic & Educational Programs | 18 | 596 | 22 | 680 | 6 | 3 | 24 | 750 | 8 | 2 65 |
| A-72 | Research Awards | 0 | 400 | 0 | 425 | 0 | 0 | 0 | 475 | 0 | 0 50 |
| | Total Special Programs | 23 | \$ 1,546 | 35 | \$ 2,905 | \$ 15 | \$ 12 | 37 | \$ 4,275 | \$ | 8 2 \$1,365 |
| A-73 | Documentation and Conservation | | | | | | | | | | |
| A-75 | Conservation Analytical Laboratory | 11 | 162 | 13 | 192 | \$ 5 | \$ 3 | 16 | 293 | \$ | 5 3 \$ 98 |
| A-77 | Smithsonian Archives | 6 | 59 | 6 | 73 | 3 | 2 | 8 | 119 | 8 | 2 39 |
| A-79 | Smithsonian Libraries | 54 | 741 | 59 | 886 | 27 | 14 | 67 | 1,120 | 15 | 8 232 |
| A-81 | Registrar | 30 | 303 | 31 | 341 | 9 | 5 | 32 | 359 | 4 | 1 18 |
| A-83 | Photographic Services | 20 | 255 | 23 | 292 | 10 | 5 | 27 | 465 | 16 | 4 162 |
| | Total Conservation & Documentation | 121 | \$ 1,520 | 132 | \$ 1,784 | \$ 54 | \$ 29 | 150 | \$ 2,356 | \$ | 48 18 \$ 549 |
| A-85 | Administrative & Central Support | | | | | | | | | | |
| A-86 | Office of the Secretary | 38 | \$ 651 | 40 | \$ 656 | \$ 27 | \$ 11 | 47 | \$ 797 | \$ | 12 7 \$ 145 |
| A-88 | General Counsel | 9 | 151 | 9 | 166 | 7 | 4 | 10 | 182 | 3 | 1 16 |
| A-90 | Treasurer | 31 | 575 | 33 | 662 | 15 | 8 | 35 | 733 | 8 | 2 70 |
| A-91 | Personnel | 31 | 396 | 32 | 468 | 16 | 8 | 35 | 508 | 8 | 3 40 |
| A-92 | Smithsonian Press | 25 | 691 | 25 | 752 | 14 | 7 | 26 | 805 | 15 | 1 45 |
| A-93 | Information Systems Division | 14 | 235 | 14 | 264 | 9 | 5 | 17 | 326 | 8 | 3 58 |
| A-95 | Ofc of Smithsonian and National Museum Programs | 9 | 200 | 9 | 314 | 4 | 2 | 9 | 315 | 3 | 0 0 |
| A-96 | Office of Exhibits | 165 | 2,412 | 159 | 2,516 | 77 | 41 | 159 | 2,526 | 46 | 0 0 |
| A-97 | Supply Division | 21 | 330 | 21 | 369 | 10 | 5 | 21 | 390 | 6 | 0 20 |
| A-98 | Management Analysis Office | 9 | 148 | 10 | 177 | 6 | 3 | 10 | 178 | 4 | 0 0 |
| A-99 | Duplicating Section | 7 | 100 | 7 | 90 | 3 | 2 | 8 | 119 | 14 | 1 16 |
| A-100 | Other | 13 | 184 | 13 | 192 | 7 | 3 | 13 | 192 | 4 | 0 0 |
| | Total Admin & Central Support | 372 | \$ 6,073 | 372 | \$ 6,626 | \$ 195 | \$ 99 | 390 | \$ 7,071 | \$ | 131 18 \$ 410 |
| A-101 | Buildings Management Department | 768 | \$ 9,371 | 793 | \$10,675 | \$ 273 | \$144 | 877 | \$12,087 | \$ | 386 84 \$1,155 |
| | Lapsing | | | | | | | | | | |
| | Total | 2,373 | \$36,895 | 2,570 | \$44,701 | \$1,131 | \$600 | 2,814 | \$52,964 | \$1,082 | 244 \$7,712 |

SMITHSONIAN INSTITUTION
NECESSARY PAY AND RELATED BENEFITS

An increase of \$1,082,000 is required for personnel compensation and personnel benefits. The operations of the Smithsonian have been carefully reviewed and the following cannot be absorbed by funds already in the base.

| | |
|---|--------------------|
| a. To finance periodic step increases made in accordance with the Government Employees Salary Reform Act of 1964 and with prevailing practices in the wage scale..... | \$ 870,000 |
| b. To finance wage raises for the manual employees in Panama and the wage grade, wage leader, and wage supervisor employees in the rest of the Smithsonian Institution..... | 410,000 |
| c. Reduction for two less work days in FY 1973..... | <u>-198,000</u> |
| | <u>\$1,082,000</u> |

Periodic step increases are made in accordance with Government Employees Salary Reform Act of 1964 and prevailing practices in the wage system. The apparent cost was determined through a position-by-position study and has been offset by the effect of employees leaving the Smithsonian and not receiving their within-grades and by employing new personnel at lower steps. This salary increase would average approximately \$338 for each employee. In the past the amount was also offset by the effects of promotions of employees in their present positions. This has not been done this year because of the current controls on promotions in order to reduce the average grade.

The Smithsonian Institution employs over 700 Wage Employees. These employees usually receive a wage raise in the fall of each year. The President's Order prevented these employees from receiving a raise until about November 14, 1971. The new raise will be 5.5 percent which is in line with the General Schedule raise effective January 9, 1972. Some of the Wage Employees also benefitted from the application of the Monroney Amendment provision to the Washington, D.C. area. This new 5.5 percent raise is effected on the salaries already increased by the Monroney raise and will average \$552 per wage employee. The manual employees at the Smithsonian Tropical Research Institute in Panama received a raise in July 1971 and are expected to receive another raise in July 1972.

FY 1973 will have two less work days than FY 1972 therefore these increases have been offset by the return of \$198,000 previously granted for this purpose.

SMITHSONIAN INSTITUTION
NECESSARY PAY AND RELATED EXPENSES
(IN THOUSANDS OF DOLLARS)

| | <u>Periodic</u> <u>Step Inc.</u> | <u>Wage</u> <u>Raises</u> | <u>Two less</u> <u>Work Days</u> | <u>Total</u> |
|----------------------------------|-------------------------------------|------------------------------|-------------------------------------|--------------|
| Nat. Museum of Natural History | \$197 | \$ - | \$ (22) | \$175 |
| Smithsonian Astrophysical Obser. | 22 | - | (4) | 18 |
| Smithsonian Tropical Res. Inst. | 23 | 23 | (4) | 42 |
| Radiation Biology Laboratory | 20 | 10 | (4) | 26 |
| Office of Environmental Sciences | 17 | 1 | (2) | 16 |
| Nat. Air & Space Museum | 15 | 1 | (4) | 12 |
| Center for the Study of Man | 4 | - | - | 4 |
| Center for Short Lived Phenomena | 1 | - | - | 1 |
| National Zoological Park | 50 | 50 | (22) | 78 |
| Nat. Museum of History & Tech. | 56 | - | (12) | 44 |
| Nat. Collection of Fine Arts | 28 | 2 | (6) | 23 |
| Nat. Portrait Gallery | 20 | - | (4) | 16 |
| Joseph H. Hirshhorn Museum | 15 | - | (2) | 13 |
| Freer Gallery of Art | 4 | 1 | (2) | 3 |
| Archives of American Art | 5 | - | - | 5 |
| Nat. Armed Forces Mus. Ad. Bd. | 3 | - | - | 3 |
| Anacostia Neighborhood Museum | 6 | 1 | (2) | 5 |
| Office of International Act. | 6 | - | - | 6 |
| International Exchange Service | 6 | 2 | - | 8 |
| Div. of Performing Arts | 4 | - | (2) | 2 |
| Office of Public Affairs | 9 | - | (1) | 8 |
| American Rev. Bicentennial | - | - | - | - |
| Environmental Science Prog. | - | - | - | - |
| Major Exhibitions | - | - | - | - |
| National Museum Act | - | - | - | - |
| Academic & Education Prog. | 10 | - | (2) | 8 |
| Research Awards | - | - | - | - |
| Documentation and Conservation: | | | | |
| Conservation Lab | 6 | - | (1) | 5 |
| Smithsonian Archives | 8 | - | - | 8 |
| S.I. Libraries | 19 | 2 | (6) | 15 |
| Registrar | 6 | - | (2) | 4 |
| Photographic Services | 18 | - | (2) | 16 |
| Secretary | 14 | - | (2) | 12 |
| General Counsel | 4 | - | (1) | 3 |
| Treasurer | 10 | - | (2) | 8 |
| Personnel | 10 | - | (2) | 8 |
| Press | 17 | - | (2) | 15 |
| Information Systems Division | 9 | - | (1) | 8 |
| Off. of Smith. Nat. Mus. Prog. | 3 | - | - | 3 |
| Exhibits | 47 | 10 | (11) | 46 |
| Supply | 7 | - | (1) | 6 |
| Management Analysis Office | 4 | - | - | 4 |
| Duplicating | 7 | 7 | - | 14 |
| Other Central Support | 5 | - | (1) | 4 |
| Buildings Management Department | <u>155</u> | <u>300</u> | <u>(69)</u> | <u>386</u> |
| TOTAL | \$870 | \$410 | \$ (198) | \$1,082 |

SCIENCE

Discovering the history and development of natural phenomena and the characterization of natural events, especially as they relate to the evolution of man in response to his physical and social environment, represents the major scientific goal of the Smithsonian. If there is a single scholarly bond of interest among all the activities of the Institution, it is a common concern with history, the history of art, the history of technology, the history of science, and indeed natural history. Our staff of scientists is concerned with elucidating the interrelationships between organisms (including man), communities, and populations with the physical, chemical, and geological factors which play a role in forming the ecology of the earth now as in past ages. More than seventy specialties are represented by the Smithsonian's community of scientists. Activities range from astrophysical investigations that contribute to our understanding of the origin and mechanics of the universe, through investigations on microscopic organisms in the ocean depths, to the development of man as shown by his artifacts and productivity.

There is a major change occurring now in the nation's general scientific effort. This change regards the type of input information more and more investigators view as necessary to further research on problems which are biological or physical in nature. While the change is a contemporary one, it is related in an important way to the basic and long-term activities of the Smithsonian and similar research institutes across the nation, and indeed the world. The change, simply stated, involves the following.

Ecological investigations concerned with identifying long-term factors affecting environmental balance increasingly are becoming dependent on analysis and information constructed around collections of objects. Systematic collections of biological and geological specimens contain standards for describing and measuring ecological changes. Unfortunately, as of now, not enough historical information has been extracted to create "bench-marks" of change which would give scientists accurate indices for speculating about ecological trends, and about man-made solutions to problems which would be in keeping with the natural evolutionary process.

This, however, is the type of work which the various scientific laboratories and museums of the Institution have been involved in for a century and a quarter. In recent times, systematics has not been considered one of the more fashionable of sciences. Even during the hey-day of federal support for scientific research, systematics did not receive the measure of support needed to maintain a level of involvement adequate to the nation's best environmental interests. But now the demands for taxonomic information are increasing rapidly as our national programs of science and technology are redirected to cope with environmental deterioration.

NATIONAL MUSEUM OF NATURAL HISTORY

| | Base <u>1973*</u> | Increase <u>Requested</u> | 1973 <u>Estimated</u> |
|---------------------------|----------------------|------------------------------|--------------------------|
| No. of Perm Pos | <u>335</u> | <u>38</u> | <u>373</u> |
| 11 Pers Comp | \$ 4265 | \$ 437 | \$ 4702 |
| 12 Pers Benefits | 354 | 37 | 391 |
| 21 Travel..... | 103 | 24 | 127 |
| 22 Trans of Things | 1 | 3 | 4 |
| 23 Rent, Comm & Util ... | 21 | 2 | 23 |
| 24 Printing | | | |
| 25 Other Services | 358 | 100 | 458 |
| 26 Supplies & Materials.. | 110 | 42 | 152 |
| 31 Equipment | 435 | 110 | 545 |
| 41 Grants..... | | | |
| TOTAL | <u>\$5647</u> | <u>\$ 755</u> | <u>\$6402</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 175 |
| Program..... | 580 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Correct Museum Support Deficiencies (31 positions; \$410,000). A serious imbalance exists between the professional research curatorial staff and the support personnel and resources available for their efforts (museum technicians, assistants, equipment, supplies, etc). The increase requested (the second in a planned 3 year program) will allow continued progress toward the support ratios recommended by the President's Science Advisory Committee and the Panel on Systematics and Taxonomy. Thirty-one technicians, clerks, and illustrators (\$233,000) are requested, along with support funds (\$177,000) for travel, supplies, materials, and equipment.

Bone Biology (2 positions; \$40,000). The Museum is involved in basic research with the National Collections to explain the ecological relationships of organisms and their interaction with their environments, past and present. The requested increase would permit research on bone biology and bone disease processes which will lead to a better understanding of problems which plague mankind today. The request is for an organic chemist and a technician (\$29,000) and \$11,000 for support funds.

Physical Sciences Laboratory (\$50,000). With funds provided in FY 1972 a most encouraging start has been made on the equipping of a physical sciences laboratory. The increase, along with such other funds as can be made available in FY 1973, would permit the establishment and operation of this new facility which will provide Museum-wide programs designed to trace the history and effects of pollution through study of the specimens in the National Collections.

Electronic Data Processing (5 positions; \$80,000). If this Museum is to serve as a base for important environmental research, it must make its collections and accompanying data more accessible to researchers and scholars. Data processing provides the only means by which this can be done. This request would for the first time include data on prehistoric man, insects, and gems. Five technicians (\$37,000) and support funds (\$43,000) are requested.

NATIONAL MUSEUM OF NATURAL HISTORY

1971 Actual\$4,343,000
1972 Appropriation.....\$5,559,000 1/
1973 Estimate.....\$6,402,000

The National Museum of Natural History (NMNH) serves as a national and international center for the natural sciences. It maintains the largest reference collections in the Nation and conducts a broad program of basic research on man, plants, animals, fossil organisms, rocks, minerals, and materials from outer space. Its research is concerned with classification, distribution, analysis, and environmental and ecological relationships. Its studies in systematics and biology are providing new information required for the solution of major national problems of conservation and pollution, food production, improvement of medical knowledge, and for planning national and international programs leading to productive ecology and environmental management. It engages in joint educational programs with universities, conducts science seminars, and provides leadership in the improvement of museum techniques and collections management, especially through the application of computer technology.

The NMNH has the legal responsibility (20 U.S.C. 59) to serve as the Federal repository of all collections and objects of natural history, archeology and ethnology. In recent years, collections made under grants of the National Science Foundation have added thousands of new specimens. Additionally, the NMNH increasingly has become the repository for valuable collections obtained from other sources such as the scientific community, academic institutions, and private individuals. Because the Museum is the national repository, it has responsibilities far beyond the research of its own staff. It assists the layman and the scientist with identifications, lends specimens, and safeguards the tangible results of research. Through use of its collections, NMNH is a vigorous interdisciplinary scientific organization devoting an increasing share of its resources to the public understanding of environmental problems.

The Director of the National Science Foundation, Dr. William D. McElroy, stated the case for the importance of systematic collections in an August 1970 letter acknowledging receipt of a major national report on the importance of these materials 2/.

"The collections of natural history objects in our universities and natural history museums are, indeed, an essential resource, and their proper usage and maintenance is vital to continued progress in the great work of organizing our knowledge of the natural world. At the present time in history when ominous disruptions of our ecosystem threaten man's very existence, the need for increased understanding of the working of this ecosystem and the diversity of organisms comprising it has never been more keenly felt nor widely appreciated. The systematic collections provide the fundamental basis for this understanding."

The NMNH has in its collections approximately one-third of all the natural history specimens in the United States. There is no other repository

1/ FY 1972 appropriation adjusted by funds lapsing in FY 1972.

2/ The Systematic Biology Collections of the United States: An Essential Resource. A report to the National Science Foundation by the Conference of Directors of Systematic Collections.

anywhere in the world with so much documentary material for determining the composition of biota from millions of years ago to the present. For this reason the controlled acquisition, protection, and increased availability of the National Collections continue to occupy a high priority. In addition to caring for the collections, the Museum also conducts a level of systematic, ecologic, and evolutionary research that is not approached elsewhere in this country. Many of the present controversies in the fields of environmental protection, pollution abatement, and control arise from interpretations made and conclusions drawn from far too fragmentary "facts". The Museum is in the unique position of having the largest source of rare data from which solid facts can be established for restoring a measure of environmental quality to the management of natural resources.

For FY 1973, a request is made for an additional \$580,000 to implement the second year of a three year program designed to correct serious imbalances that exist between the number of scientists and their support staff to assure proper curation of the collections (\$410,000); to strengthen the Museum's ability to respond to national problems by intensifying its research efforts in bone biology which are directly associated with collections in ecological and biological areas (\$40,000); to continue with the development of a Physical Science Laboratory (\$50,000); and to continue strengthening the Museum's capability to extract and automate information on the collections (\$80,000). In addition an increase of \$175,000 is needed to cover necessary pay.

Need for Increase

1. Museum Support Deficiencies (31 positions and \$233,000 for personnel costs; \$177,000 support costs)

The increased funding provided to the Museum in FY 1972 is permitting the initiation of a phased program for correction of the support shortages that were identified in the FY 1972 budget presentation. This will make the museum more useful to institutions and agencies that need our expertise in their research. The FY 1972 appropriation will allow the establishment of a support staff/scientist ratio of 1.4 to 1.0. This is an improvement over the relationship which existed in FY 1971 and will increase the effectiveness and productivity of the scientific and high level technical personnel. But FY 1972 will still fall short of the goal of three support personnel (technical and clerical) for each professional employee recommended in May 1969 by the President's Science Advisory Committee and the Panel on Systematics and Taxonomy. The FY 1973 request will provide for 31 of the most urgently needed support positions and will permit the Museum to attain a support ratio of 1.7 technical and clerical personnel for each scientist (see Table I). In subsequent years we will seek to reach a staffing level of 2:1 which will then be evaluated before a request is submitted to permit establishment of a ratio approaching the 3:1 relationship recommended. Of the proposed \$410,000 increase, \$233,000 are associated with the personnel being requested, and \$177,000 are sought to continue to improve current levels of funding for travel, supplies, materials, and equipment purchase, replacement, and maintenance. Included in the \$177,000 is approximately \$51,000 for equipment items, which along with current base funding allowed in FY 1972 would place the museum's ability to acquire and replace needed museum and scientific equipment annually at a funding level of about \$250,000. A large part of these purchases are related to special scientific instrumentation needs. Such equipment is frequently complex and costly, but is essential to acquire if the research scientists are to keep abreast of the developing techniques in their specialties. The goal through FY 1975 is to increase the scientific purchase and replace-

Table I

NATIONAL MUSEUM OF NATURAL HISTORY

* Ratios of Man-Years of Effort Between Technicians/Scientists

| Department | FY 1971 | | FY 1972 ^a / | | FY 1973 ^b / | | | | |
|----------------------|---------|-----------|------------------------|-----------|------------------------|-----------|-----|-----|----------|
| | Support | Scientist | Support | Scientist | Support | Scientist | | | |
| Anthropology | 23 | 16 | 1.44:1.0 | 25 | 17 | 1.47:1.0 | 32 | 18 | 1.78:1.0 |
| Botany | 15 | 17 | 0.88:1.0 | 22 | 18 | 1.22:1.0 | 30 | 18 | 1.67:1.0 |
| Entomology | 17 | 11 | 1.55:1.0 | 17 | 12 | 1.42:1.0 | 20 | 12 | 1.67:1.0 |
| Invertebrate Zoology | 20 | 18 | 1.11:1.0 | 25 | 18 | 1.39:1.0 | 28 | 18 | 1.56:1.0 |
| Mineral Sciences | 10 | 10 | 1.00:1.0 | 13 | 10 | 1.30:1.0 | 16 | 10 | 1.60:1.0 |
| Paleobiology | 24 | 18 | 1.33:1.0 | 27 | 19 | 1.42:1.0 | 31 | 19 | 1.63:1.0 |
| Vertebrate Zoology | 21 | 13 | 1.62:1.0 | 24 | 13 | 1.85:1.0 | 27 | 13 | 2.08:1.0 |
| TOTALS | 130 | 103 | 1.26:1.0 | 153 | 107 | 1.43:1.0 | 184 | 108 | 1.70:1.0 |

* Ratios apply to personnel assigned directly to science support. They exclude EDP Applications and NMNH Director's Office.

^a/ FY 1972 relationships assume planned employment of personnel within allowed OMB employment ceilings.

^b/ FY 1973 reflects relationships which would obtain with full implementation of FY 1972 OMB allowances and full employment of personnel requested in FY 1973 increases.

ment fund to an annual level of approximately \$500,000. Again, operating experience at this level would be evaluated and a report compiled indicating what might be a desirable and optimum fund level.

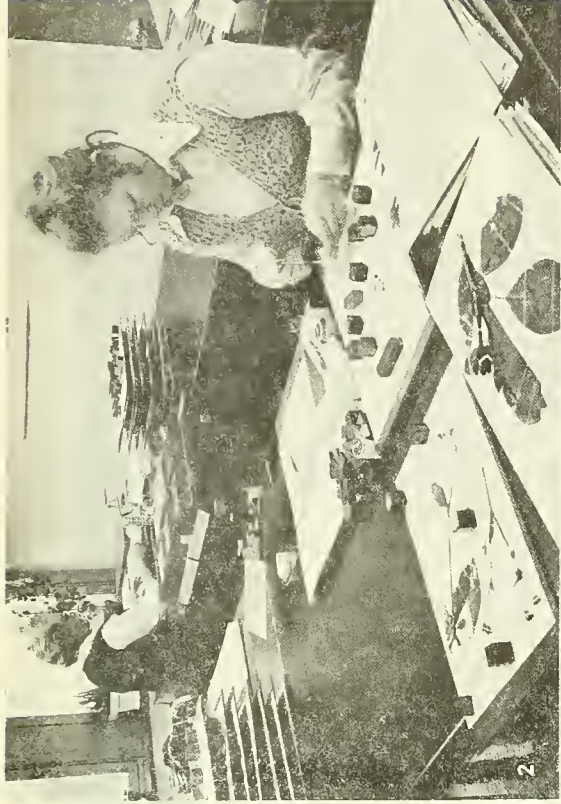
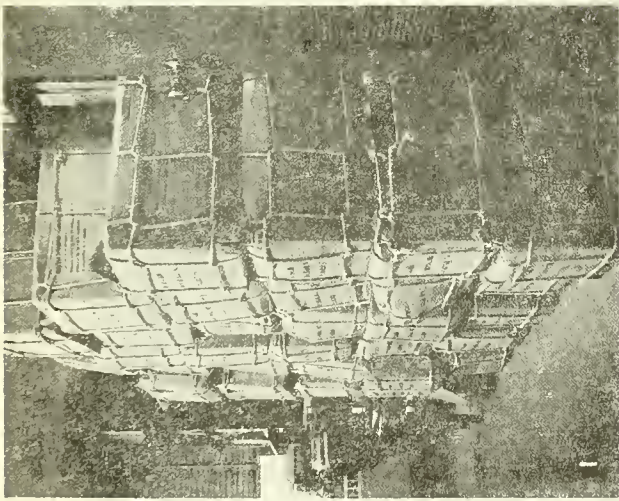
The balance of the increase, \$126,000, is directed at continuing to improve the drastically low levels of support which were available per scientist for field trips, normal supplies and materials, and other centrally provided services. In 1971, only about \$900 per scientist was available for these purposes. For FY 1972, the figure will approach \$2,700 to \$2,900. The requested increase will further improve the average to about \$3,900 to \$4,000 per scientist. The Museum is currently using as a target average for FY 1975, about \$6,000 per scientist which seems to be reasonable in light of the scope of activities and the increasing costs of travel, transportation, supplies, and materials. A portion of the \$126,000 requested will be earmarked for the temporary employment of outstanding scientists, as they become available to study and curate special portions of the collections.

2. Bone Biology (2 positions and \$29,000 personnel costs; \$11,000 support funds)

Human bone functions intimately in the metabolism of food, minerals, muscles, and blood. In addition it provides support for physical activity. Environmental factors such as food supply, disease organisms, pollutants, and other factors affect the structure and composition of bone on all levels. Because the record of these effects is retained indefinitely in the skeleton, it is possible to extend knowledge about environmental factors in human health and disease from skeletal samples obtained from various ecological settings and time periods. Initially the major emphasis in this research would be on developing data from modern skeletal samples which can be used as a basis for future studies on environmental factors in human archeological samples. This same data will serve in the establishment of an international registry on bone disease processes and would lead to a better understanding of some modern diseases such as anemia, cancer, osteomyelitis, rickets, scurvy, syphilis, and tooth decay. The request would provide an organic chemist and a technician (\$29,000) and support funds (\$11,000) for computer time, supplies, materials, and equipment.

3. Physical Sciences Laboratory (\$50,000 support funds)

The Museum is establishing a general physical sciences installation which will be used by scientists working in many diverse fields. The principal unit required in the first phase for a crystallography examinations, a single crystal diffractometer, is being purchased and installed from funds (about \$45,000) provided in FY 1972. This versatile instrument will provide the data needed to solve problems related to crystal structures. Materials that have crystalline structures which would be studied with this instrument include metals, minerals, chemicals, and many biological materials. This unit when operational will increase the scope and value of current programs, such as the study of lunar rocks. Related equipment needed for X-ray studies would be purchased in FY 1973. This includes specialized single-crystal cameras, microscopes, and photomicrographic equipment. To fully automate the diffractometer, the acquisition of a modern solid-state calculating system attached to the unit is necessary to permit rapid data reduction, prevent delays and errors associated with hand calculations, and avoid the problems and expense associated with conversion to computer operation of this intermediate scale of computations. A portion of the increase would be used to purchase a small system to completely automate the diffractometer and provide in-house computing capabilities vitally needed in a modern physical

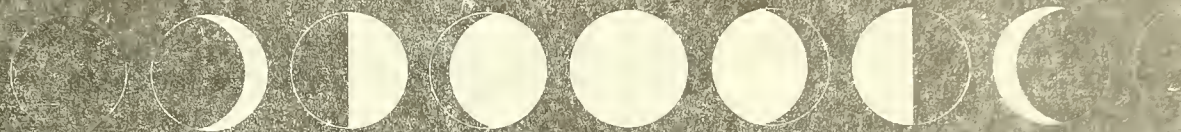


- (1) Botanical specimens from Ceylon not processed due to shortage of personnel.
- (2) Specimens properly mounted, in this case by a mentally handicapped person trained by the Museum.
- (3) Supervisor verifying proper mounting for accession into the National Herbarium.
- (4) New storage cabinets, acquired with FY 1972 funds, provide protection and accessibility of specimens for scientific research.

SCIENCE

30 January 1970

Vol. 167, No. 3918



Smithsonian research findings in lunar rocks featured in Science Magazine

sciences laboratory. For example, necessary microprobe calculations could be performed within minutes of obtaining the raw data. Rapid data evaluation is critical where results provide a guide to, and are pre-requisite to, additional research. Currently efforts are being made to increase the collection of synthetic (man-made) crystalline materials for both research and documentation purposes. Synthetics have a greater bearing on the evaluation of natural processes and lead directly to involvement in solid state research. The proposed instrumentation would greatly strengthen the analytical power of existing museum facilities, thereby adding new and much greater dimensions to current and planned investigations at a minimum additional cost. In addition to the base funding received in FY 1972, \$50,000 are being sought for the continued equipping of this facility.

4. Electronic Data Processing Applications (5 positions and \$37,000 for personnel costs; \$43,000 support funds)

The electronic data processing program of the Museum is part of its responsibility for making the National Collections more relevant to science and making its scientists more productive. The program has two goals: to bring the benefits of modern electronic data processing techniques to the traditional functions of the Museum and to stimulate new and deeper analysis of specimens and their environment in order to learn more of their evolution, distribution, and community structure. The increased funds will greatly improve the Museum's EDP Program in terms of breadth of collection coverage without a proportionate increase in planning and supervisory personnel. Individual projects have been selected for inclusion to be covered and services to be derived. In FY 1971 information was computer recorded on about 10,000 fossil marine organisms, 15,000 modern mammals, 5,000 type specimens of plants, and 8,000 specimens of modern shrimp and related animals. This effort should be nearly tripled in FY 1972. Despite this excellent progress, however, it is clear that many years of work remain. There are roughly 55 million specimens already in the Museum's collections, perhaps a third of which are sufficiently critical to current scientific research to warrant computer entry.

Funds requested for FY 1973 would provide 5 processing technicians (\$37,000) and support funds (\$43,000) to intensify work in the departments. Support for automation of this work is being sought in the budget request of the Information Systems Division. In invertebrate zoology, work will be extended to include entry of information on four new collections. In addition, projects will be initiated in the departments of entomology, anthropology, and mineral sciences. The entry of data on gem and mineral specimens planned by the department of mineral sciences also will be valuable in that it will provide improved security and control through a comprehensive inventory of these specimens, many of which have high intrinsic value. About one quarter of the requested increase would be used in support of biostatistical, biographical, and taxonomic research involving computer processing of data.

All of the activities of the EDP Program are based on the proposition that data about specimens are at least as important as the specimens themselves in the modern context of the life sciences. Improvement in our ability to handle these data has already begun to yield important dividends in the area of collection management. Valuable benefits will be achieved as the files of stored data increase to the point where they can be queried directly by scientists in academic and research institutions, commercial organizations, and government agencies, thus achieving very large savings in the time of scientific personnel and commitment of other resources.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>57</u> | <u>1</u> | <u>58</u> |
| 11 Pers Comp | \$1179 | \$ 32 | \$1211 |
| 12 Pers Benefits | 96 | 2 | 98 |
| 21 Travel | 94 | 28 | 122 |
| 22 Trans of Things | 10 | 50 | 60 |
| 23 Rent, Comm & Util ... | 200 | 15 | 215 |
| 24 Printing | 24 | | 24 |
| 25 Other Services | 914 | 27 | 941 |
| 26 Supplies & Materials .. | 75 | 30 | 105 |
| 31 Equipment | 88 | 139 | 227 |
| 41 Grants | | | |
| TOTAL | <u>\$2680</u> | <u>\$323</u> | <u>\$3003</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 18 |
| Program | 305 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Multiple Mirror Telescope (\$250,000). This is a cooperative project with the University of Arizona to build a multielement telescope with resolving power equal to a 240" conventional telescope. This new concept in design could revolutionize optical astronomical instruments. The requested \$250,000 increase on the base of about \$500,000 provided in the FY 1972 appropriation will continue development and fabrication of this telescope in FY 1973 according to the plan outlined in the FY 1972 budget request.

Other Research Programs (1 position; \$55,000). To understand our universe we must understand the nature and behavior of its parts - atoms and molecules. Advances in technology have opened several new "windows" through which SAO astronomers are observing atoms and molecules in space. To continue its observation through these windows, SAO requires (\$39,000) for supplies and materials and for computer analysis. One new physicist (\$16,000) is required to formulate mathematical models for atomic and molecular behavior in the atmospheres of earth, planets and in stars and interstellar space.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

| | |
|-------------------------|-----------------------|
| 1971 Actual | \$2,107,000 |
| 1972 Appropriation..... | \$2,655,000 <u>1/</u> |
| 1973 Estimate..... | \$3,003,000 |

Since 1890, the Smithsonian Astrophysical Observatory (SAO) has pursued a broad program of research in astrophysics and, more recently, in related space sciences. SAO places particular emphasis on those programs that promise to achieve scientific leadership for the Observatory, or that establish standards or references for use by the scientific community. For example, during FY 1973 the Observatory plans to complete and publish a catalog giving the ultraviolet brightness of several thousand stars observed by the Telescope instruments on Orbiting Astronomical Observatory 2. During the same fiscal year SAO expects to complete Smithsonian Standard Earth III, containing a global set of geodetic parameters, superseding the 1969 Smithsonian Standard Earth II.

An appropriation increase of \$305,000 is requested to continue the development of a large optical telescope that will provide the kind of instrumentation essential to scientific achievement, and to extend certain important research programs. In addition, \$18,000 are required for necessary pay.

Need for Increase

1. Multiple Mirror Telescope (\$250,000)

The Multiple Mirror Telescope, begun in FY 1972 with an appropriation of \$533,000, is an example of an enterprise in which the Observatory is pioneering a new concept in telescope design which could revolutionize optical astronomical instruments of the future. This is a cooperative project with the University of Arizona to build a multielement telescope with resolving power equal to a 240" conventional telescope. Many astronomers from other observatories have expressed keen interest in this program.

Following the program plan described in A Large Astronomical Telescope at Low Cost submitted to the Congress, SAO will continue the development and fabrication of this telescope during FY 1973 with the requested \$250,000 increase. By that time, detailed designs will have been completed and major construction contracts will be let.

2. Other Research Programs (1 position; \$55,000)

One additional position, (\$16,000) and general support funds for computer analysis, laboratory supplies, and instrumentation (\$39,000) are sought for the following research programs.

--The Earth as a Planet and the Solar System At many places in the universe physical conditions are such that matter exists in molecular form. For example, such conditions prevail in the atmospheres of the earth and other planets, the outer layers of some stars, and in interstellar space. Because the behavior of molecules is basic to so many natural phenomena it is important for the astronomer to understand processes involving them. Advanced physical theories provide one approach to an improved understanding of molecular processes.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

✓

An SAO research group now working on the frontiers of theoretical physics and quantum mechanics has developed complex computer programs for constructing mathematical models of basic atomic and molecular processes. This group anticipates an increased demand for producing the solutions to theoretical problems arising from the study of terrestrial, planetary, and stellar atmospheres, and from interstellar matter. During FY 1973, these vital efforts that contribute so broadly to the pursuit of astronomy will require the addition of a physicist and increased computer services.

--Energetic Phenomena in the Universe The history of modern astronomy is substantially the history of opening new windows on the universe. For centuries, the only window open to man was visible light--an extremely narrow band of the electromagnetic spectrum. In the past three decades, however, rapid advances in science and technology have opened many new windows utilizing radiation in the form of radio, infrared, ultraviolet, X-ray, and gamma ray signals. As befits a major observatory, SAO actively acquires data in most of these regions of the electromagnetic spectrum. Its plans for FY 1973 particularly call for emphasis upon two new areas. The first is infrared astronomy. The other is a window in the millimeter-wave region of the spectrum that has become useable only recently by virtue of instrumentation advances. This newest window lies between the longest wavelength of infrared radiation and the shortest wavelength of radio waves, a region in which many molecules in interstellar space are known to radiate.

Intense sources of infrared radiation have been detected at the core of many galaxies, including our own Milky Way. Indeed, some astronomers have found this radiation so powerful that an unknown form of energy release must be postulated to explain it. Some of this infrared radiation can be observed and analyzed by ground-based instruments such as the Multiple Mirror Telescope that SAO is fabricating. However, the longer wavelengths of the infrared spectrum are absorbed by the earth's protective blanket of atmosphere. This infrared radiation can be seen only by instruments in satellites, rockets, or balloons above most of the earth's atmosphere.

Because space satellites are so expensive and rockets so limited in their time of flight, SAO has developed a small but expert team skilled in preparing experiments for balloon flights. Today's modern balloons are capable of carrying large, intricate instrumentation that can be easily monitored and controlled from the ground. Far less costly than satellites, and far more productive than rockets, balloon experiments promise to provide an important means to astronomical discovery in this decade.

In cooperation with the University of Arizona and Harvard College Observatory, SAO has built a 40-inch infrared telescope for balloon-borne observations. The first flight is scheduled for late FY 1972, with more detailed investigations of specific objects of scientific interest scheduled for FY 1973.

To pursue millimeter-wave astronomy, SAO is engaged in a cooperative program with Harvard College Observatory, the University of Texas, and Bell Laboratories. This group is establishing a small millimeter-wave telescope at a site in Texas. Observations will begin during the latter half of FY 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>52</u> | <u>6</u> | <u>58</u> |
| 11 Pers Comp | \$504 | \$65 | \$569 |
| 12 Pers Benefits | 60 | 5 | 65 |
| 21 Travel..... | 29 | | 29 |
| 22 Trans of Things | 8 | | 8 |
| 23 Rent, Comm & Util ... | 40 | 2 | 42 |
| 24 Printing | | | |
| 25 Other Services | 58 | | 58 |
| 26 Supplies & Materials .. | 44 | 7 | 51 |
| 31 Equipment | 30 | 2 | 32 |
| 41 Grants..... | | | |
| TOTAL | <u>\$773</u> | <u>\$81</u> | <u>\$854</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 42 |
| Program..... | 39 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Research Support (4 positions; \$28,000). Immediate needs include two game wardens to protect valuable land provided by the Canal Zone Government in Gatun Lake(\$9,000). In addition, a minimum operating crew, a captain and a mate(\$12,000), and operating costs (\$2,000) are sought to man surplus Navy vessel converted to scientific use at little cost to the Smithsonian. To help cover shortages in scientific support funds throughout STRI, additional funds (\$5,000) are requested for supplies, materials, and equipment.

Program and Facilities Management (2 positions; \$11,000). Because of increased costs of facilities utilization and maintenance two custodians are requested (\$7,000), along with support funds for general maintenance supplies, materials, and equipment (\$4,000).

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

1971 Actual\$639,000
1972 Appropriation.....\$762,000 1/
1973 Estimate.....\$854,000

Established 25 years ago to foster understanding of the tropical environment as preserved on Barro Colorado Island, the Smithsonian Tropical Research Institute (STRI) has become a major center for research by staff, advanced students, associates, and visiting scientists on organisms and environments. The tropical location of STRI is particularly important for several reasons. The tropics are the habitat of one half of mankind. They provide unusually favorable opportunities for analysis of fundamental biological problems of world-wide significance. In the tropics, plant and animal diversities and biomass are greater. Competitive processes and interactions, are more complex. New lines of adaptation are more pronounced (and probably more often successful). Continuous year-round field and experimental studies are easier by far than in other climatic zones.

The Panama-Canal Zone region offers a unique array of terrestrial and marine study habitats. The Isthmus is a land bridge for the biotic interchange of two continents and, at the same time, a continuing barrier to the biota of two oceans--separated by several millions of years, but only 50 miles apart. This affords an observational and experimental potential which cannot be matched elsewhere. The interdependence of ocean and continent is beginning to be publicly recognized. STRI has one of the few teams of scientists in the world organized jointly to pursue the biology of both realms.

Questions of survival, importance of diversity, the role of animal communications, influence of environmental change, invasions by new populations, partitioning of environmental resources on land and in the oceans--on these and many other fronts STRI progress is recognized by leaders in biology around the world. The quality of STRI research can be readily verified by reviewing publications in the world's leading biological journals. In FY 1971 the ten permanent biologists published 29 articles. Non-permanent staff members contributed 32 publications. Many others were written by visiting scientists based on work at STRI. Twenty-eight seminars were given at STRI in FY 1971.

The growth in visitors to STRI is testimony to its role in research in the tropics. In FY 1971, 795 men and women from 55 universities and 47 other institutions in 24 states and 20 countries mined the intellectual and environmental resources at STRI. STRI operates four installations in the Canal Zone, including the long established and famous reserve of Barro Colorado Island. These are bases of studies of rain forests and lowland habitats, lakes and streams, the oceans, and the seashores. A fifth installation is operated in Cali, Colombia, for studies of montane forests and the rich biota of the upper Amazonian basin. Concurrent and comparative individual research projects elsewhere in the New and Old World tropics are providing data on regional variations. Work is underway on interactions among hundreds of different animals and plants and their habitats.

An increase of \$39,000 is requested to maintain a balanced program of research and facilities management to keep pace with the accelerating demands on the Institute. In addition, \$42,000 are sought to cover necessary pay for staff.

1/ FY 1972 appropriations adjusted by funds lapsing in 1972.

Need for Increase

1. Research Support (4 positions; \$28,000)

In 1972 STRI obtained a long-term, no cost lease to three points of land in Gatun Lake directly across from Barro Colorado Island. These areas will permit research in secondary growth, which is not available on Barro Colorado Island, at a location easily accessible from the island facilities. They will also provide an area for collection of animals for study or for use by research institutions in other countries. Such collecting is not permitted on Barro Colorado Island. In view of the additional areas which must be patrolled, and of the increased pressure from poachers due to higher population densities in areas close to Barro Colorado Island, it is absolutely necessary that two additional game wardens be employed. The cost will be \$9,000.

The marine programs at STRI are made economically feasible through the use of surplus vessels converted for scientific purposes. Minimal amounts are necessary to put these valuable resources to work. The cost of a minimum crew, a captain and a mate, is requested (\$12,000). Operating costs which cannot be absorbed are \$2,000.

Increased prices of scientific supplies and equipment have affected STRI's ability to provide adequate support funds for the ongoing projects of its professional staff. For FY 1973, \$5,000 are requested to reestablish purchasing power within the base.

2. Program and Facilities Management (2 positions; \$11,000)

Increased usage of the station has finally dictated that a full time custodian be employed. The heavy visitor use of STRI by staff and visiting researchers requires that considerable maintenance and cleaning of facilities must be carried out. The employment of 2 additional laborers will be mandatory. Deficiencies in maintenance service can be corrected only by this small increase in staff. The cost of these two positions is \$7,000. In addition, utilities continue to rise, and there is a shortage of support funds for administrative supplies and materials; \$4,000 are requested to partially rectify these shortages.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

RADIATION BIOLOGY LABORATORY

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>46</u> | <u>2</u> | <u>48</u> |
| 11 Pers Comp | \$496 | \$ 48 | \$544 |
| 12 Pers Benefits | 42 | 4 | 46 |
| 21 Travel..... | 8 | 2 | 10 |
| 22 Trans of Things | 3 | 1 | 4 |
| 23 Rent, Comm & Util ... | 350 | 10 | 360 |
| 24 Printing | 3 | 1 | 4 |
| 25 Other Services | 86 | | 86 |
| 26 Supplies & Materials .. | 40 | 4 | 44 |
| 31 Equipment | 120 | 111 | 231 |
| 41 Grants..... | | | |
| TOTAL | <u>\$1148</u> | <u>\$181</u> | <u>\$1329</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 26 |
| Program..... | 155 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Temperature Control (\$111,000 support funds). The Laboratory has a phased plan for completing the outfitting of the building. A complete prototype room and design for the building-wide requirements for sophisticated temperature control are being carried forward during the current fiscal year. The plan calls for purchase and installation of the temperature apparatus throughout the building in FY 1973. Requested funds for outfitting the facility with the balance of the control elements (light, humidity, etc.) will follow in FY 1974 and FY 1975.

Instrumentation and Technical Support (2 positions; \$26,000). The technical support section is responsible for servicing and producing instruments required by the Laboratory's scientific staff. With the resumption of normal research activities, and the increasing need for complex systems, the present staff cannot keep abreast of workload requirements. An instrument specialist and an engineering technician are urgently needed (\$26,000).

Utilities and Other Support (\$18,000). Increased utilization and prices are anticipated. Much of the increase in utility costs will be due to making operational the natural light,glass environmental facility and the prototype controlled growth room. The request will serve to prevent erosion of the program base for FY 1973.

RADIATION BIOLOGY LABORATORY

| | | |
|------------------------|-------------|----|
| 1971 Actual | \$ 954,000 | |
| 1972 Appropriation ... | \$1,137,000 | 1/ |
| 1973 Estimate | \$1,329,000 | — |

Light is a key environmental controlling factor for the development and growth of biological systems. The storage of solar radiation as chemical energy in photosynthesis is basic for all life on earth. However, the utilization of radiant energy and stored chemical energy is regulated by subtle changing signals of light quality, duration, and intensity. A primary objective of the Laboratory's efforts is to explain the influences of the various factors in the environment--light, temperature, humidity, and atmospheric content--on the growth and development cycles of plants and to characterize the mechanisms through which environmental signals eventually manifest their effects on the developmental processes in living organisms. This is accomplished by studying the problems in the Laboratory under controlled conditions using biochemical, biophysical, and physiological techniques and then verifying the importance of these processes in nature by monitoring the natural, dynamic environment. Such programs of research by their very nature are long-term and require the concerted team efforts of many scientific disciplines.

The research of the Laboratory consists of three principal areas: (1) regulatory biology, (2) environmental biology, and (3) carbon-14 dating. From the initial charge that it be concerned with the effects of the sun's energy on earth's life, a major portion of the program of the Radiation Biology Laboratory is devoted to the study of the responses of living organisms to various qualities and intensities of radiant energy.

Since its inception in 1928 the Laboratory has pioneered research on the influences of the spectral quality of visible light on plant growth and development. The present experimental program is of greater scope than in any other single laboratory in the country and perhaps the world. The complexity of the problems studied is demonstrated by the number of disciplines within the program, which has a range through physiology, cytology, biochemistry, biophysics, physics, engineering, electron microscopy, and morphology. The Laboratory has been credited with major contributions in the field of photobiology.

Over the next few years, the primary program and budgetary objectives of the Laboratory are to complete the instrumentation and equipping of the new Rockville facility, with compatible growth in the scientific and technical areas of investigation. In FY 1973, \$155,000 are requested to purchase and install the refined temperature control apparatus needed throughout the building, to provide needed support for the instrumentation section, and to meet increased utility and maintenance costs associated with higher prices and greater utilization. In addition, \$26,000 are being sought for necessary pay for staff.

Need for Increase

1. Temperature Control (\$111,000 support funds)

The Laboratory has a planned phased program for completing the relocated facility. The current funding level does not permit purchase and installation of controlled light growth room facilities or sophisticated temperature control apparatus throughout the building's treatment and preparation rooms. The

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

present plan calls for the installation and finishing of one of five prototype controlled growth rooms during FY 1972-73, which will be adjacent to the glass enclosed natural light growth area. The completion of the facilities is proceeding with about \$69,000 available in the base; approximately \$9,000 is being utilized for the design of the building-wide temperature requirements; and \$60,000 for the control elements in the prototype room. Purchase and installation of the building-wide temperature apparatus must occur in FY 1973, and \$111,000 is sought for this purpose.

Each of the five controlled light rooms requires precision control of light quality, intensity and duration, relative humidity, gas content, and temperature. In addition to temperature control, the outfitting of each will require an insulated shell, some humidity and gas exchange equipment, and lighting units capable of simulating subtle changes in spectral quality and photoperiods of natural daylight. Once the temperature control schedule has been met, it is anticipated that funds to finish the instrumentation and outfitting of the four additional control rooms will be sought over a two-year budget period beginning in FY 1974 and will involve about \$200,000 a year for equipment purchase and installation.

2. Instrumentation and Technical Support (2 positions; \$26,000)

The initial move to the Rockville site occurred in FY 1971. During the current fiscal year, the on-going research programs have been resumed and operations returned to normal. To begin to meet anticipated requirements of the research staff and effectively utilize the new quarters, the operational plan calls for a phased strengthening of the instrumentation and technical support staff. To produce instrumentation currently required in the regulatory and environmental programs, the Laboratory is deficient one instruments specialist and one engineering technician, (\$26,000).

Regulatory biology research in this Laboratory has produced significant information toward the understanding of fundamental photobiological processes and mechanisms. It has been shown that neurospora, a fungus, synthesizes carotenoids (yellow to red pigments found in plants) in the presence of light. One of these carotenoids is the precursor of Vitamin A, required for human vision. Radiation Biology Laboratory investigators have isolated neurospora mutants that cannot synthesize carotenoids. Present experiments using these mutants are outlining the pathways by which ultraviolet light controls synthesis. This laboratory group was also the first to isolate successfully and characterize a functional photosynthetic pigment complex in red algae, which as a primary absorber of solar energy, enables organisms to grow at great depths in the ocean.

The solar radiation program has produced the only available long term data on ultraviolet light measurements. This information was used by a Department of Commerce panel evaluating the impact of the SST program on the environment. The Point Barrow, Alaska station provides the solar radiation data for the Tundra Biome program of the U.S. International Biological Program.

3. Utilities and Other Support (\$18,000)

Greater utilization and price increases in utilities are anticipated. The request will serve to prevent erosion of the program base of operations for FY 1973. When the glass enclosed natural light growth area, and the prototype controlled light area are operational, utility costs will increase (about \$10,000). The balance of the request will provide needed supplies, chemicals, and transportation funds.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
OFFICE OF ENVIRONMENTAL SCIENCES

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>39</u> | <u>3</u> | <u>42</u> |
| 11 Pers Comp | \$538 | \$ 51 | \$589 |
| 12 Pers Benefits | 45 | 4 | 49 |
| 21 Travel..... | 27 | 1 | 28 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 14 | | 14 |
| 24 Printing | | | |
| 25 Other Services..... | 63 | | 63 |
| 26 Supplies & Materials.. | 43 | | 43 |
| 31 Equipment | 44 | | 44 |
| 41 Grants..... | | | |
| TOTAL | <u>\$774</u> | <u>\$ 56</u> | <u>\$830</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 16 |
| Program..... | 40 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Chesapeake Bay Center(2 positions; \$27,000). The Center is participating in a broad study of how to scientifically manage, and maintain ecological balance, in a large land-water (estuarine) system. The initial focus of the study is the Rhode River watershed. Funds are needed for a program assistant to coordinate activities (\$19,000). In addition, the scientific utilization of the facilities has increased and requires an additional secretary (\$8,000).

Oceanography and Limnology Program(1 position; \$13,000). Two oceanographic research vessels are operated from PL 480 funds and private sources for biological and geological studies. Scheduling and other vessel operations require an additional program specialist (\$12,000), and support funds (\$1,000).

OFFICE OF ENVIRONMENTAL SCIENCES

| | | |
|------------------------|-----------|-----------|
| 1971 Actual..... | \$619,000 | |
| 1972 Appropriation.... | \$762,000 | <u>1/</u> |
| 1973 Estimate | \$830,000 | |

The broad role of the Office of Environmental Sciences is to integrate the land, freshwater, and marine research interests of the Smithsonian into cooperative scientific activities with other U.S. and foreign scientists. Comprehensive individual projects, some involving hundreds of investigators, are formulated by scientific authorities who identify significant problems based on known needs. In almost every case, participating scientists are supported by their own institutions. For example, 350 scientists from some 200 organizations receive marine specimens and coordinate their data production through the Smithsonian Oceanographic Sorting Center. At the request of the Agency for International Development, 50 scientists from nearly as many universities and agencies are developing guidelines that will enable foreign aid administrators, planners, and economists to predict the environmental consequences of major development projects in five underdeveloped countries. Twelve scientists in another activity are producing keys to freshwater organisms of significance to water quality studies.

The Office participates actively in national and international oceanographic and terrestrial expeditions. It reviews programs and renders advice on environmental matters to many agencies and universities, including the National Oceanic and Atmospheric Administration, Army Corps of Engineers, Environmental Protection Agency, Council for Environmental Quality, Department of the Navy, University of Rhode Island, Woods Hole Oceanographic Institution, and a number of philanthropic foundations supporting research in marine and terrestrial ecology.

A program increase of \$40,000 is requested for FY 1973 for environmental research, technical support, and maintenance of the Chesapeake Bay Center for Environmental Studies, and for the direction and supervision of the aquatic and terrestrial scientific programs of the Office. In addition, an increase of \$16,000 is requested for necessary pay.

Need for Increase

1. Chesapeake Bay Center (2 positions; \$27,000)

The Chesapeake Bay Center is a 2,000 acre natural and semi-natural area located seven miles south of Annapolis, Maryland. It is the largest facility in the nation available for the study of land-water (estuarine) systems. Through the Center, the Smithsonian is participating in the Chesapeake Research Consortium, Incorporated, a non-profit organization devoted to researching the environmental problems of biological populations, communities and ecosystems, and scientific land management. Other members of the Consortium include the University of Maryland, Johns Hopkins University, and the Virginia Institute for Marine Sciences. A major activity at the Center for the next several years will be to undertake land-water studies related to the model watershed development of the Rhode River. Studies will involve land use planning to demonstrate that environmental quality can be retained while avoiding the undesirable elements of a rapidly urbanizing complex. The movement of fertilizers, herbicides and pesticides, and the effects of soil erosion and estuarine sedimentation, as well as

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

the role of marshes as filter mechanisms will be studied. The influences of these phenomena on the land, living systems, and estuary are studies that may result in suitable control measures applicable to other areas. A recent National Science Foundation grant to six cooperating universities, totaling about \$128,000, will enable approximately seventy-five scientists working on eighteen different projects to utilize the Center facilities for work of this nature. Some of the projects have already started. Interest in the scientific potential of the Center is growing rapidly, and it is anticipated that in a few years the Center will be recognized as the major focus for promoting land-water ecological investigations. The present staff of five persons is hard pressed to handle the volume of inquiries, schedule the scientific use of the Center, and administer its various programs.

For FY 1973, a program assistant and a secretary (\$27,000) are requested to help keep pace with the increasing workload.

2. Oceanography and Limnology (1 position; \$13,000)

The Oceanography and Limnology Program operates and administers the Smithsonian Oceanographic Sorting Center in Washington, D.C. with federal funds, and the Mediterranean Sorting Center in Tunisia with foreign currency funds. Other activity in FY 1971 and FY 1972 includes the refurbishing of two oceanographic vessels and the completion of a research submersible using PL 480 and private funds. Provision of scientific direction through this program will enable nearly 100 scientists to engage in extensive oceanographic work. In FY 1973 the increased activity will require additional personnel for administering the program.

The biological control of non-agricultural pests is studied in the United States, Peru, Iran, Thailand, Laos, Ghana, and other countries. A notable achievement during the past year involved a Smithsonian parasitologist working in the Lower Mekong River. His work was partially supported by this Office. While there, he successfully identified the particular species of aquatic snail which serves as intermediate host to the schistosome infecting the Mekong. Studies are continuing to find a natural predator which may be introduced to control the snail before dams and man-made lakes in the Mekong and its tributaries lead to an irreversible spread of schistosomiasis to epidemic proportions in the Delta region.

A program specialist (\$12,000) is required for the Oceanography and Limnology Program to accommodate the increased activity and scheduling workload projected with vessel operations and research. Other program support, particularly travel, should be increased by \$1,000.

NATIONAL AIR AND SPACE MUSEUM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>44</u> | <u>20</u> | <u>64</u> |
| 11 Pers Comp | \$575 | \$215 | \$790 |
| 12 Pers Benefits | 49 | 17 | 66 |
| 21 Travel..... | 14 | 2 | 16 |
| 22 Trans of Things..... | 5 | 8 | 13 |
| 23 Rent, Comm & Util ... | 3 | | 3 |
| 24 Printing | 5 | 1 | 6 |
| 25 Other Services..... | 24 | 194 | 218 |
| 26 Supplies & Materials.. | 17 | | 17 |
| 31 Equipment | 58 | 40 | 98 |
| 41 Grants..... | | | |
| TOTAL | <u>\$750</u> | <u>\$477</u> | <u>\$1,227</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 12 |
| Program..... | 465 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

The target year 1976 has been selected for the opening of the new Museum as an important contribution to the American Bicentennial celebrations. In FY 1973, this will require major operational increases in the following:

Exhibitions Planning and Artifact Restoration (10 positions; \$105,000). To coordinate new exhibits planning and design with outside consultants, the Institution's production shops and curators, and to begin to restore 32 major air-and spacecraft.

Professional and Curatorial Research (5 positions; \$75,000). To strengthen simultaneously, in a phased fashion, the Museum's ability to provide expert curatorial guidance and documentation required for the major exhibit and associated display areas.

Spacearium (3 positions; \$27,000). To complete work on exhibits project initiated in Air and Space Building in FY 1971, and designed for transport to new Museum when opened. The Spacearium should be opened to public in present quarters in late summer 1972.

Information and Education (2 positions; \$22,000). To establish a core education and information program directed at Washington area school systems.

Non-Personnel Support (\$236,000). To be utilized in above areas for Spacearium equipment, contracts for outside artifact restoration, exhibit consultants, and general program strengthening.

NATIONAL AIR AND SPACE MUSEUM

| | |
|-------------------------|----------------------|
| 1971 Actual | \$ 631,000 |
| 1972 Appropriation..... | \$ 738,000 <u>1/</u> |
| 1973 Estimate | \$1,227,000 |

By Act of August 12, 1946, the Congress established the National Air Museum as part of the Smithsonian Institution. Later by Act of July 19, 1966, the memorialization of space flight was added to its responsibility and the name changed to the National Air and Space Museum (NASM). The functions of the Museum are to memorialize the national development of aviation and space flight; collect, preserve, and display aeronautical and space flight equipment of historical significance; and serve as a repository for documentary materials.

In FY 1972, the Congress appropriated \$1.9 million for the redesign of the National Air and Space Museum building. This is to be constructed on the Mall and opened to the public in 1976 as part of the American Bicentennial Celebration. The building will host over 5 million visitors a year, and will serve as the national focal point for the collection, exhibition and historical research of aviation and space flight. The building will also house a planetarium/spacearium, which is planned to be a domed audio-visual facility in which dynamic pictorial simulation of the stars as seen from the earth or space can be blended with still and cinematic portrayals of launch, rendezvous, planetary landing and exploration. Presentations will range from conventional planetarium demonstrations to simulations of major space events. (Further information on the building plans may be found in the construction section of this budget presentation.)

To maintain the current level of operation in the Arts and Industries building and temporary Air and Space building, and at the same time prepare for the opening of the new museum, it will be necessary to increase the NASM operational budget by \$465,000 in FY 1973 (including 20 positions and \$229,000). In addition, \$12,000 are requested for necessary pay increases. The pace of exhibits preparation required to meet the 1976 opening date makes it imperative that the phased research and restoration work be started in FY 1973. The increase will be used to strengthen the NASM operation as follows:

Need for Increase

1. Exhibits Planning, Artifact Preservation, Restoration and Storage (10 positions; \$105,000)

The present staff is hard pressed to keep up with the work at hand. Currently, there are 42 aircraft, 50 large space artifacts and 100 engines in the outdoor storage. All of this material must be sorted, identified, preserved and warehoused. New material arrives weekly.

Three new positions (\$39,000) are of high priority, and are essential in the area of planning and design of exhibits. They include a designer, artist, and typist. These people will provide the initial museum focus for conceptualizing and modeling the exhibits areas of the new building, and coordinating the necessary work that must occur among the NASM curatorial staff, the restoration and preservation elements at Silver Hill, the outside exhibits contractors and specialists, and the exhibit production capabilities of the Institution.

Exhibits in the new building will incorporate the use of 50 major air and space craft. Of this number it will be necessary to restore 32, or an average of eight per year over the next four years. Past records show that each major

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

artifact requires an average of 3 man years to restore. Therefore, in addition to the normal receipt, preservation, and storage workload for the entire collection, it will require about 24 employees for artifact restoration specially oriented to the exhibit collection. This work must be started in FY 1973 for completion in time for the 1976 opening. Seven new positions at a cost of \$66,000 for the restoration process are requested. Of this total, five will be at the GS-7 and below, and two will be at the GS-9 level. The recruitment of lower graded personnel is possible because of the number of skilled mechanics already on the rolls. By recruiting at the lower levels it will be possible to utilize more effectively the present staff in the performance of restoration work and place the new personnel in laboring, warehousing, and support positions.

2. Professional and Curatorial Activities (5 positions; \$75,000)

The curatorial demands for the new museum will require a steady growth in the professional staff between now and the opening of the new museum. Current plans call for approximately 60 major and minor display units ranging in content from Lindbergh's flight to space biochemistry. Experience shows that a major exhibit requires 4-6 months to conceptualize. This includes the research and development of scripts, and the search, both in-house and outside, for appropriate artifacts. In FY 1973, it will be necessary to increase the curatorial staff by four professional staff members and one support staff member. One of the new professional staff positions will be a department chairman. The remaining three curatorial positions will be filled by specialists in fields related to the artifacts to be displayed, and historical research to be performed in the new building, i. e., human factors, propulsion, and electronics.

3. Spacearium (3 positions; \$27,000)

FY 1971 saw the beginning of the development of the Spacearium. Plans were drawn up whereby this project would be housed over the next three years in the present Air and Space building. This project provides a testing ground for equipment and exhibit techniques and will be transferable to the new building. At the same time it will give the millions of visitors to the present Air and Space Building an educational as well as entertaining exhibit and a preview of an important component of the new museum. The project is being further developed with FY 1972 funds. It is requested that \$25,000 be made available in FY 1973, to provide the salaries for three support personnel responsible for the audio-visual and electro-mechanical functions of the spacearium.

4. Information and Education (2 positions; \$22,000)

It is requested that \$22,000 be made available to provide the salaries for an information education specialist and a clerk typist. These positions are necessary to utilize NASM facilities, staff, and artifacts to establish an education and information program directed toward the Washington area school systems with emphasis on those young people living in the inner-city.

5. Other Support Funds (\$236,000)

An amount of \$236,000 is requested for support of programs directed toward the move into the new museum. This will be used for a variety of purposes: contracts for restoration of selected aircraft and space craft (\$120,000); contracts for exhibit consultants and temporary employees to be used on a flexible basis rather than hiring full-time staff (\$60,000); equipment including requirements for the spacearium (\$40,000); and other necessary support for travel, transportation, publication, and other expenses (\$16,000).

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

CENTER FOR THE STUDY OF MAN

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>10</u> | <u>3</u> | <u>13</u> |
| 11 Pers Comp | \$ 85 | \$ 41 | \$126 |
| 12 Pers Benefits | 7 | 4 | 11 |
| 21 Travel..... | 12 | | 12 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 2 | | 2 |
| 24 Printing | | | |
| 25 Other Services | 98 | 7 | 105 |
| 26 Supplies & Materials.. | 1 | | 1 |
| 31 Equipment | 1 | | 1 |
| 41 Grants..... | | | |
| TOTAL | <u>\$206</u> | <u>\$ 52</u> | <u>\$258</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 4 |
| Program..... | 48 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

American Indian Program - Encyclopedia of North American Indians (3 positions; \$48,000). The Encyclopedia of North American Indians is out of the planning stage and into production. In 1971 a meeting with the General Advisory Committee took place. Plans were reviewed and volume editors selected. The scope and contents were established, and meetings of volume editors with their respective advisory committees were completed. Writing has started and some manuscripts have already been received. The efforts of over 850 contributors are being coordinated and first drafts of all manuscripts will be received during FY 1973. The workload has been increasing rapidly and three additional personnel are requested, copy editor, a bibliographer, and an illustrator (\$41,000). Other support funds for the expenses of volume editors and contributors are requested (\$7,000).

CENTER FOR THE STUDY OF MAN

1971 Actual\$153,000
1972 Appropriation.....\$204,000 1/
1973 Estimate.....\$258,000

The Center for the Study of Man coordinates research and development on a series of important anthropological programs. The American Indian Program is presently concerned primarily with the development of the 20 volume Encyclopedia of North American Indians. Another aspect of this program is the development of a system for providing scholarly educational materials concerning Indians to individuals, schools, and Indian communities. In addition, the Center helps to coordinate educational intercommunication among Indians themselves, with scholars, and with appropriate government and private agencies.

The Urgent Anthropology Program identifies, publicizes, and finances, by means of small grants, needed research in geographical areas that are undergoing rapid environmental change as a result of urbanization, improved communications, better transportation, and other factors. The objective is to salvage and preserve information in selected rapidly changing areas before time and events erase our ability to understand the cultures that existed.

The Cross-cultural Data Retrieval Program is coordinating the efforts of numerous anthropologists and other human scientists in developing new, comparative information on population, environmental, and educational studies. As the results of these studies begin to appear in monographs, the Center will undertake to interpret them for the general public through an exhibits program.

A program increase of \$48,000 is requested for FY 1973 for continued development of the Encyclopedia of North American Indians. In addition, \$4,000 are sought for necessary pay for staff.

Need for Increase

1. Encyclopedia of North American Indians (3 positions; \$48,000)

The purpose of the Encyclopedia, consisting of 20 volumes, is to summarize what is known of the prehistory, history, traditional, and modern cultures of all the Indian groups north of Mexico. The volumes will bring up to date and replace the previous standard encyclopedic work of this topic which was issued by the Smithsonian in 1907-1910. This will become the standard reference work on all aspects of North American Indian history and anthropology. It will be heavily used by students, teachers, authors, researchers, and administrators in both the United States and foreign countries.

The project is proceeding according to our original time table. The schedule of completed and planned activity is as follow:

May 1971--writing assignments given to approximately 850 contributors;
May 1972--completed draft manuscripts received;
May 1973--revised and reassigned manuscripts completed;
May 1974--submission of manuscripts for the 20 volumes to the printer;
July 1976--issuance of the Encyclopedia as part of the American
Revolution Bicentennial celebration.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

Some manuscripts have already been received, more will begin to arrive in late FY 1972, and by FY 1973 they will be coming in large numbers. The requested additional funds will be used to hire a copy editor, a bibliographer, and an illustrator-draftsman (\$41,000), and to pay for the expenses of volume editors and contributors (\$7,000).

As the flow of work effort on the Encyclopedia becomes stabilized and routinized, the Center will begin to turn more attention to other important projects. One such project is the study and conservation of American Indian languages.

For nearly a century research on American Indian languages has been a responsibility of the Smithsonian. The Institution is generally regarded to be the center for such research. It is assumed that such research is now being conducted but there has not been a linguist on the Smithsonian staff since 1970. In the past, a significant proportion of the research and publication on Indian languages was conducted by Indians - native speakers of the languages concerned - both on the Smithsonian staff and elsewhere. In recent decades there has been a marked decrease in the number of Indian linguistic scholars. Yet linguists agree that important advances in their science depend upon the knowledge which a native speaker brings to bear in the study of his own language. American Indian languages have a great deal to contribute to our understanding of languages in general. In order to ensure that this contribution will be made, it is essential that a significant number of American Indians be enabled to engage in the study of their own languages. In recent years there has been parallel growth in awareness in Indian communities of the importance and value of Indian languages and in the necessity for their formal study and teaching. The interests of the Institution and of Indian communities coincide. Awareness of this shared interest has begun to be evident. Tribes whose members are known to be interested in research and training in their language include the following. This number will increase.

| <u>East</u> | <u>Midwest</u> | <u>West</u> |
|---------------|---------------------|-------------|
| Fassamaquoddy | Crow | Navajo |
| Miccosukee | Cree (Rocky Boy) | Eskimo |
| Mohawk | Sioux | Tlingit |
| Cherokee | Cheyenne (Northern) | Hupa |
| Choctaw | Chippawa | Diegueño |
| Micmac | | Luiseno |
| Penobscot | | Cupeño |
| | | Keresan |
| | | Pomo |
| | | Ute |
| | | Makah |

To meet this need, the Smithsonian is planning a long-term program to support research on North American Indian languages at the local level and mainly by linguists who are themselves native speakers of the languages. On the basis of initial inquiries and correspondence, the program will consist of: (1) assistance for training of native Indian linguists; (2) the preparation of materials on the native languages, which would be useful for the teaching of literacy and literature, and for the continued use of Indian languages in education beyond the elementary level; (3) the preparation of accessible linguistic resource materials on these languages for future use by both American Indian communities and the scholarly world.

CENTER FOR SHORT-LIVED PHENOMENA

| | Base <u>1973*</u> | Increase <u>Requested</u> | 1973 <u>Estimated</u> |
|----------------------------|----------------------|------------------------------|--------------------------|
| No. of Perm Pos | <u>3</u> | <u>0</u> | <u>3</u> |
| 11 Pers Comp | \$25 | \$1 | \$26 |
| 12 Pers Benefits | 2 | | 2 |
| 21 Travel | 1 | | 1 |
| 22 Trans of Things | 2 | | 2 |
| 23 Rent, Comm & Util ... | 24 | 4 | 28 |
| 24 Printing | 12 | 2 | 14 |
| 25 Other Services | 8 | 3 | 11 |
| 26 Supplies & Materials .. | 8 | 1 | 9 |
| 31 Equipment | 1 | | 1 |
| 41 Grants | | | |
| | <u>\$83</u> | <u>\$11</u> | <u>\$94</u> |
| TOTAL | | | |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 1 |
| Program | 10 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

World-Wide Natural Event Monitoring and Reporting (\$10,000). Over the past four years, the Center has reported over 400 ecological, geophysical, and astrophysical events occurring in 86 countries and all the world's oceans. Its reporting network has grown to 2,800 scientists and scientific field stations in 148 countries and territories. Despite an enthusiastic response from federal agencies and the international scientific community, outside financial support for regular, on-going operations is difficult to obtain. Special reporting projects are so funded and the Center has a subscription program which produces about \$25,000 a year. A program increase of \$10,000 is requested for communications, printing, computer services, and other operational costs. Much of this increase is associated with higher costs resulting from reporting significant environmental pollution events.

CENTER FOR SHORT-LIVED PHENOMENA

| | |
|-------------------------|---------------------|
| 1971 Actual | \$ 67,000 |
| 1972 Appropriation..... | \$ 83,000 <u>1/</u> |
| 1973 Estimate | \$ 94,000 |

The Center for Short-Lived Phenomena is an early alert system and clearinghouse for the reception and dissemination of information on short-lived natural events. The Center alerts scientists, agencies, and research institutions to major short-lived ecological, geophysical, and astrophysical events occurring anywhere in the world. It quickly communicates data and descriptive information on events such as large oil spills, major atmospheric and water pollution events, high biocide residue discoveries, massive fauna and flora mortalities, volcanic eruptions and major earthquakes, the birth of new islands, the fall of large fireballs and meteorites, sudden changes in biological and ecological systems such as animal migrations and colonizations, and any other natural or man-made phenomena that require rapid response from scientists in order that they may take advantage of research opportunities while environmental changes are occurring.

During the past four years the Center has reported over 400 short-lived events that occurred in 86 countries and all the world's oceans, including 189 earth science events, 142 biological and ecological events, 61 astrophysical events, and 9 urgent anthropological and archaeological events that led to 297 scientific field expeditions. The Center has issued over 1,300 event notification and information reports to thousands of research scientists and institutions, published 67 event reports, handled a communications volume of over half a million cable words, and a mail volume of 800,000 event notification and information cards.

An increase of \$10,000 is requested to meet higher costs of communications and other expenses. An additional \$1,000 are needed for necessary pay.

Need for Increase

Activities have continued to increase rapidly in the past two years because of the response from federal agencies and the international scientific community. At the urging of a number of agencies and international organizations, the Center has become involved increasingly in reporting significant environmental pollution events. Because of the Center's comprehensive global communications system and its reporting network that has now grown to over 2,800 scientists and scientific field stations in 148 countries and territories, the Center was able to report every major environmental pollution event, volcanic eruption, earthquake, oil spill, and meteorite fall that occurred on earth in 1971, usually within hours after the events occurred.

The Center has been successful in obtaining outside financial support for special projects dealing with global environmental monitoring and transient lunar phenomena. It has also instituted an event notification subscription program that now has over 600 subscribers and produces revenue of over \$25,000 per year, but the success of the Center's regular operations will depend heavily on the level of core federal funding.

The Center will begin no new activities in FY 1972 and plans none for FY 1973 that will use federal funds, but requests that FY 1973 federal support

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

be increased to meet higher operational costs resulting largely from the Center's increased commitments in environmental pollution event information communication. An increase of \$10,000 is needed for communications, printing and reproduction, other services (computations and information systems support), and supplies and materials.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

NATIONAL ZOOLOGICAL PARK

| No. of Perm Pos | Base <u>1973*</u> 286 | Increase <u>Requested</u> 0 | 1973 <u>Estimated</u> 286 |
|----------------------------|-----------------------------|-----------------------------------|---------------------------------|
| 11 Pers Comp | \$2759 | \$ 72 | \$2831 |
| 12 Pers Benefits | 248 | 6 | 254 |
| 21 Travel | 20 | 2 | 22 |
| 22 Trans of Things | 3 | | 3 |
| 23 Rent, Comm & Util ... | 161 | 13 | 174 |
| 24 Printing | 3 | 4 | 7 |
| 25 Other Services | 64 | 49 | 113 |
| 26 Supplies & Materials .. | 392 | 97 | 489 |
| 31 Equipment | 170 | 19 | 189 |
| 41 Grants | | 1 | 1 |
| TOTAL | \$3820 | \$263 | \$4083 |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 78 |
| Program | 185 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Exhibits and Education Program (\$70,000). Although major improvements to displaying the large and varied collections of animals (now numbering some 3,200 animals of 1,100 species) must await the renovation of the Zoo, more immediate steps can be taken to produce educational exhibits that will identify and explain the collection. Funds are sought for contract design and fabrication of the kind of exhibits seen in modern zoos (\$40,000). An amount of \$30,000 is also requested for utilities and routine services, supplies, and equipment; a small program of assistance to foreign zoos; and for the training of Zoo employees.

Operations and Maintenance (\$27,000). These funds are sought to meet the increasing costs of building materials, gardening and tree maintenance supplies, and vehicle repair parts.

Zoological Programs (\$88,000). An amount of \$70,000 is needed to meet steadily rising prices of animal food and veterinary supplies. Uniforms and equipment for keepers and other personnel require an additional \$13,000. Funds are requested to cover the cost of contractual research projects and meeting page charges and other research publication costs (\$5,000).

NATIONAL ZOOLOGICAL PARK

| | |
|-------------------------|-----------------------|
| 1971 Actual | \$3,163,000 |
| 1972 Appropriation..... | \$3,762,000 <u>1/</u> |
| 1973 Estimate..... | \$4,083,000 |

The National Zoological Park was established in 1889 for the "advancement of science and the instruction and recreation of the people." To accomplish this mission, the Zoo exhibits a broad zoological collection of animals from all parts of the world in natural surroundings; maintains an information and education program for the benefit of the visiting public from all over the United States; and promotes scientific research, including biomedical programs, for increased scientific knowledge and for the benefit of the animals so that visitors can enjoy them in prime health.

The number of visitors increases annually. In calendar year 1971, approximately 5,000,000 visited the Zoo. A significant number of these visitors are in organized school groups from the metropolitan area and more distant points. The Zoo is increasingly used as a teaching site by teachers of biology and other natural sciences.

Continued improvements have been made in the collection of animals, which is one of the world's largest. As the collection evolves, the Zoo will present exhibits of greater visitor interest and, at the same time, give greater emphasis to species and groups which effectively demonstrate significant points of animal adaptations and behavior. Greater emphasis will be given also to increasing zoo births by pairing unmated animals and maintaining breeding groups. Not only is this good conservation practice; it is essential in view of the increasing scarcity of many species and the high prices that must be paid to acquire them.

The Zoo is organized in three departments: Office of the Director; Operations and Maintenance Department; and the Department of Zoological Programs.

For FY 1973, a program increase of \$185,000 is requested to meet the increased cost of operating items; to establish a grant fund to assist foreign zoos; to provide for contracting design and fabrication of exhibits; and to provide funds for scientific publications. An additional \$78,000 are required for necessary pay increases.

Need for Increase

1. Office of Director (\$70,000)

The office of the director plans and directs all Zoo programs. It also coordinates the activities and functions of the planning and design office; develops and maintains the Zoo's educational program; and furnishes general administrative services. The animal acquisition program is under the direction of this office. Administrative services include the protective service program, budget, fiscal, supply, and procurement functions.

The Zoo now has approximately 3,200 animals of over 1,100 species, representing one of the largest and most varied collections of exotic animals in existence. This collection has great public educational potential, in subjects such as wildlife conservation. Although major improvements to

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

displaying the animals must await the renovation of the Zoo, more immediate steps can be taken to produce the kinds of educational exhibits needed to identify and explain the living collection of animals to visitors. Cage exhibits thus far have been largely improvised by animal keepers, using branches, rocks, mosses, and other materials to meet the requirements of the animals for perching, climbing, privacy, shade, etc. In modern zoos, materials such as molded fiberglass are extensively used to simulate rocks, tree stumps, and plants. Contract design and fabrication of exhibits similar to those seen in visitor centers and at other points in national parks, as well as in many modern zoos will cost \$40,000.

The Zoo staff is frequently called on for assistance from foreign zoos and wildlife parks. Information is requested on conservation, diet, medical treatment, and many other technical subjects essential to proper animal care. There have been on-site consultations in many cases. Often these zoos, or their parent organizations, can meet the expenses of this assistance. This is not the case with regard to the several hundred zoos in underdeveloped countries. Use of the funds would be limited to supplement the advice and assistance that is now rendered to a few zoos. Examples of zoos helped in the past are in Accra and Kumasi, Ghana; Brasilia, Brazil; Santiago, Chili; and Surabaja, Indonesia. Funds are requested for the purchase of books, travel for consultation, and other expenses (\$1,000).

Funds are needed to finance training expenses of Zoo employees. This includes course fees, books, films, manuals, as well as other training materials for use in-house, and fees for individuals brought to the Zoo as specialists for in-house training courses (\$2,000).

Additional funds are also sought to meet the rising costs of utilities and routine contractual services, supplies, materials, equipment, and travel (\$27,000).

2. Operations and Maintenance (\$27,000)

The operations and maintenance department has responsibility for all plant maintenance and supporting services. These include:

--Maintenance and construction: maintaining and repairing 15 major buildings and a wide range of cages and other facilities. This unit also performs renovation and minor construction, and builds nest boxes, shipping crates, exhibits, and other needed items.

--Grounds: maintaining and improving the 156 acres of trees, lawns, shrubs, flower beds, and indoor plantings.

--Air conditioning and heating: maintaining all heating plants and air conditioning in the buildings throughout the Park.

--Transportation and automotive maintenance: maintaining all automotive vehicles, and operation of trucks and heavy equipment.

--Labor services: trash collection, sweeping of streets and walks, snow removal, and janitorial services.

An amount of \$27,000 is needed to meet the increasing costs of building materials, gardening and tree maintenance supplies, and vehicle repair parts.

3. Department of Zoological Programs (\$88,000)

The department of zoological programs conducts an animal care program involving feeding, cleaning of cages, and exhibition; an animal health program responsible for clinical treatment of illnesses and injuries; a pathology program that performs histopathologic and gross pathologic diagnosis of disease; and a scientific research program that undertakes studies of animal behavior, reproduction, and nutrition.

The Zoo collection is a major scientific resource. For this reason, facilities and assistance are often provided to scientists from federal agencies, such as the National Institutes of Health, as well as from universities. The Zoo's own scientific studies add to man's understanding of the living world. Investigations undertaken in the Zoo and in the field have yielded numerous scientific publications. In addition, the department is of assistance to other organizations, including foreign governments concerned with wildlife management and conservation. It also provides training and research opportunities for graduate students.

Additional funds are requested to meet steadily rising animal food prices, as well as to purchase veterinary supplies and other necessary items to maintain a healthy collection of animals (\$70,000). The replacement prices for sundry supplies, uniforms, and equipment also have risen sharply. Funds are also sought to cover the increased cost and usage of these items (\$13,000).

Funds are required to cover the cost of contracting various portions of research projects to professionals working with this institution. Rather than acquire permanent staff members, thus locking the scientific research program into a fixed pattern, it is desirable to retain flexibility by contracting with technical personnel for services performed as the need arises. Prior experience with research has indicated the desirability of such a flexible system. Some programs cannot be executed without the availability of funds for contracting services by professionals to perform certain preliminary stages of research which can then be taken over by permanent staff members (\$3,000).

Publications are costly. Most professional journals now charge page costs for publication and the demand from all professional journals to cover publication costs has increased. Since the scientific productivity of the National Zoological Park is increasing and, further, since it is desired to begin publishing technical manuals concerned with animal husbandry, funds are requested to cover costs of publication both within the Smithsonian Press and with respect to those articles sent to outside journals (\$2,000).

HISTORY AND ART

The Smithsonian possesses an unequalled array of resources, both material and human, for the understanding and illumination of our country's history through its material culture, its technology, and its art. No other Institution has a greater and more exciting opportunity to demonstrate and celebrate what Americans--all Americans--have accomplished.

As the custodian of National Collections comprising literally millions of historic objects and works of art, it is our responsibility to make sure that these collections are used as effectively as possible for the benefit of all. We must care for these collections, we must make them available to scholars both from our own staff and from the broader academic community, and we must use them intelligently and imaginatively to help tell the story of American civilization to our millions of visitors and, through publications and traveling exhibitions, to an even wider audience. It is also our responsibility to seek the continued growth of these collections. As we are the beneficiaries of the foresight of past generations, so must we be the benefactors of future generations, passing on to them the fruits of our stewardship.

With one exception, the Joseph H. Hirshhorn Museum and Sculpture Garden, the budget requests in the area of history and art are modest, reflecting our determination to fulfill our obligations and to realize our opportunities as economically as possible. The funds requested for the Hirshhorn Museum are required to equip and furnish the building when it is turned over to us by the contractor. Postponement of these non-recurring expenditures would inevitably delay the public opening of this great new museum.

Although many history and art bureaus of the Smithsonian have received no substantial increases in operating funds during the past two or three years, and although inflation has caused many of them to suffer in effect a decrease in funds, we have sought insofar as possible, to meet our needs out of existing resources. To this end, we have undertaken to terminate some activities and to reduce or redirect others drastically--for example, the International Art Program, the Smithsonian Journal of History, and temporary exhibition programs in all our museums. We shall continue to scrutinize all our activities with a view to maintaining a strong sense of priorities. At the same time, with the enthusiastic cooperation of our museum and bureau directors, we have encouraged cooperative efforts among our history and art bureaus in the name of efficiency and economy; shared library, photographic, and conservation facilities, for example, serve the National Collection of Fine Arts and the National Portrait Gallery better and more cheaply than would separate ones.

Despite these efforts, which will continue, certain real needs hamper the effective operation of many of our history and art bureaus and prevent us from deriving the full benefits from the investment that has been made in them.

NATIONAL MUSEUM OF HISTORY AND TECHNOLOGY

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>157</u> | <u>6</u> | <u>163</u> |
| 11 Pers Comp | \$1,944 | \$84 | \$2,028 |
| 12 Pers Benefits | 160 | 7 | 167 |
| 21 Travel | 49 | | 49 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 12 | | 12 |
| 24 Printing | 5 | | 5 |
| 25 Other Services | 112 | 123 | 235 |
| 26 Supplies & Materials .. | 20 | 40 | 60 |
| 31 Equipment | 167 | 50 | 217 |
| 41 Grants | | | |
| TOTAL | <u>\$2,469</u> | <u>\$304</u> | <u>\$2,773</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 44 |
| Program | 260 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Computerized Inventory of the National Historical Collections (\$23,000). The approximately 16 million objects in the Museum's collection, ranging from postage stamps to a giant locomotive, make it essential to have a standardized inventory system permitting quick access for research projects, exhibition items, and to answer public inquiries. It is now nearly impossible to locate individual objects or to determine if certain classes of specimens are in the collections at all. Studies of various cataloging systems have been made and pilot project inventory of the collection of 4,000 handguns has been completed. An amount of \$23,000 is requested for program preparation and computer time to continue to develop a computerized, descriptive catalog of the Museum's holdings.

Prevention of Deterioration of Objects (3 positions; \$165,000). Several collection areas and many objects on display are badly in need of remedial action to prevent their deterioration and loss. Three museum technicians and funding of \$35,000 are requested to give particular attention to the numismatic collections, costumes and furnishings, and musical instruments. An amount of \$130,000 is sought to restore objects on display since 1964 (especially those which are subject to wear and tear in operating exhibits) and seen by some 42 million visitors.

Acquisition of New Objects (\$50,000). New objects of great historical importance will be acquired with the requested \$50,000. Of special importance to the Museum is the acquisition of patent models from the Gilbert Collection which document the range of American inventiveness during the 19th century. Otherwise, the models will be dispersed to private collectors and lost to the American people.

Curatorial Support (3 positions; \$22,000). Three additional clerk-typists (\$22,000) will be added to the Museum's staff to assist with curatorial duties and public inquiries.

NATIONAL MUSEUM OF HISTORY AND TECHNOLOGY

| | |
|-------------------------|-----------------------|
| 1971 Actual | \$2,242,000 |
| 1972 Appropriation..... | \$2,428,000 <u>1/</u> |
| 1973 Estimate..... | \$2,773,000 |

The National Museum of History and Technology occupies a unique position among the great museums of the world. As the repository of the National Collections documenting the historical and technological achievements of the American people, the Museum has responsibility for over 16,000,000 objects related to all facets of the American experience. Each of these objects must receive the highest level of professional care and preservation.

As the most visited museum in the world, it was host to almost 6,000,000 visitors during FY 1971. It is anticipated that this figure will double by the Bicentennial year, 1976.

As a center for the scholarly study of the history of American civilization and the history of science and technology, this Museum continues to support and encourage basic research and publication in many subject fields, ranging from early exploration to studies of contemporary American culture.

For FY 1973, an additional \$260,000 in program funds is requested for a computerized inventory of the national historical collections, the prevention of deterioration of objects in storage and on public view, the acquisition of new objects of historical importance, and for additional clerical support to the professional staff. An amount of \$44,000 also is sought for necessary pay for current staff.

Need for Increase

During the eight years since the NMHT opened to the public in 1964, it has endeavored to fulfill its responsibilities to the American people in a variety of ways.

It has provided a variety and richness of public exhibits seen by over 42,000,000 visitors, equal to 20 per cent of America's total population.

It has provided a steadily increasing range of exhibitions and public information services such as public lectures, concerts, tours, and responses to personal and written public inquiries.

Its collections have provided the historical documentation for countless scholarly monographs and general works of history, many of which have been produced by the Museum's own staff.

With the approach of the Bicentennial celebrations, even more attention will be focused upon the NMHT's unique collections of the nation's historical treasures. Citizens, visitors from abroad, scholars, researchers, and collectors will be drawn more than ever to the Museum.

While the responsibilities and contributions of the NMHT have grown substantially during its eight years of existence, its resources have not. Insufficient staff and funds have prevented the completion of the cataloging, preservation, and interpretation of the millions of invaluable objects in its collections. By providing more adequate care of donated and purchased materials, the Museum will continue to attract the important historical treasures which it must have to meet its responsibilities. A total of \$260,000 is requested to correct partially present Museum deficiencies.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

1. Computerized Inventory of the National Historical Collections (\$23,000)

A computerized, descriptive catalog of the Museum's collections is urgently needed and long overdue. Millions of objects were acquired before systematized methods of cataloging were developed. It is now nearly impossible to locate individual objects or to discern if certain classes of specimens are included in the collections at all. The number and diversity of the objects, ranging from postage stamps to a 140,000-pound electrical generator, makes it essential to have a standardized inventory of the Museum's resources. A fully computerized inventory system, a long range project, will permit the NMHT for the first time to reduce its present backlog of cataloging and to keep pace with current acquisitions. With adequate funding, the project can be completed within ten years.

Preliminary studies of various cataloging systems have already been made and a pilot project for a computerized, descriptive catalog of the collection of almost 4,000 handguns has been completed in FY 1971 and 1972 with funds in the base. With the \$23,000 requested for program preparation and computer time, the NMHT could expand its descriptive inventory to begin to encompass its entire collections.

2. Prevention of Deterioration of Objects in Storage and on Exhibit (3 positions; \$165,000)

In several collection areas, specifically numismatics, costumes and furnishings, and musical instruments, there is insufficient staff to provide adequate care to these priceless objects. Three museum technicians (\$25,000) are requested to prevent further deterioration in these collections, plus \$10,000 for supplies, including special storage cases compatible with existing equipment.

Another serious concern of the NMHT is the condition of many of the national treasures which have been on public view since the Museum first opened in 1964. Many objects have suffered considerably from public exposure, especially those which are part of operating exhibits.

At present the NMHT does not have resources to refurbish and recondition adequately these objects to a proper museum standard. In order to accomplish this task properly, the NMHT requests \$100,000 to contract for the restoration of important specimens on public display (to be done under close supervision of the curatorial staff) and \$30,000 for supplies and materials to allow for the restoration by highly trained museum technicians of specimens too valuable to be allowed to leave the Museum temporarily. If this project is not undertaken soon the restoration cost will be prohibitive.

3. Acquisition of New Objects (\$50,000)

An additional \$50,000 is requested to acquire new specimens of extraordinary historical importance to fill serious gaps in the collections. For example, there are in the Robert Gilbert collection of patent models a number of specimens which are a unique historical record, documenting in a vivid and dramatic way the range of American inventiveness during the nineteenth century. If individual models from the collections cannot be purchased in FY 1973, the models will be dispersed by sales to private collectors and this invaluable collection of objects will be lost to the American people. In recent years, funds for specimens (approximately \$300,000) have been diverted from regular operating funds. This is no longer possible in the face of generally increased costs of operations.

OLD ABE,



1861

1865

PRINCE OF RAILS.

A unique cloth transparency of Abraham Lincoln, and one of six known to exist in the country. Restoration of the tear in the fabric, and preservation of the transparency would cost \$300.00.

4. Curatorial Support (3 positions; \$22,000)

Three additional clerk typists (\$22,000) are requested to relieve professional staff from performing necessary clerical functions (such as typing responses to the thousands of public inquiries received each year).

NATIONAL COLLECTION OF FINE ARTS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>72</u> | <u>6</u> | <u>78</u> |
| 11 Pers Comp | \$ 817 | \$ 77 | \$ 894 |
| 12 Pers Benefits | 69 | 6 | 75 |
| 21 Travel | 31 | 5 | 36 |
| 22 Trans of Things | 25 | 5 | 30 |
| 23 Rent, Comm & Util ... | 14 | 1 | 15 |
| 24 Printing | 3 | 1 | 4 |
| 25 Other Services | 146 | 58 | 204 |
| 26 Supplies & Materials .. | 26 | 31 | 57 |
| 31 Equipment | 98 | 40 | 138 |
| 41 Grants | ----- | ----- | ----- |
| TOTAL | \$ <u>1229</u> | \$ <u>224</u> | \$ <u>1453</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 24 |
| Program | 200 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Collection Management and Use (2 positions; \$55,000). The ability to acquire works of art in today's competitive market must be increased. While private donations are intensely cultivated, to an increasing extent valuable works are no longer available from donors; \$25,000 are requested to strengthen the purchase flexibility for collections. In addition, funds are requested for two positions (\$21,000), one to restore and conserve prints and drawings, and one to supervise the growing archival collections of photographs and negatives. Support funds for these efforts involve equipment and supplies (\$9,000).

Exhibitions (2 positions; \$99,000). The exhibit capability of the National Collection needs to be expanded over the next few years because of growing programs at the recently opened Renwick Gallery and the increasing demands for traveling exhibits. An exhibition specialist (\$8,000) and basic exhibits production support (\$70,000) are required to support the new program at the Renwick Gallery. In addition, with a projected 40% increase in workload for the traveling exhibitions program there is a great need for a specialist to mount exhibitions (\$11,000), and support funds (\$10,000) to help absorb increasing preparation and shipping costs.

Public Education (2 positions; \$46,000). Curriculum interest in art, printmaking, etching, etc., is growing rapidly in the local school system, and in addition to the structured tours, are bringing great pressure to bear on the current small staff (3) and available resources. Direct school contacts, exhibitions, course development, and training are of great importance to NCFAs operations. To handle scheduling, training, materials, and demonstration development, two education specialists are required (\$19,000) along with support funds (\$27,000).

NATIONAL COLLECTION OF FINE ARTS

1971 Actual\$1,036,000
1972 Appropriation.....\$1,212,000 1/
1973 Estimate.....\$1,453,000

The National Collection of Fine Arts (NCFA), the oldest national collection of art, is devoted to the conservation, study, and presentation of American painting, sculpture, prints and drawings, and American design and crafts. It circulates exhibitions both throughout this country and abroad (in association with the United States Information Agency), maintains an active program of public education at all levels, engages in research and publication on American artists, and maintains (with the National Portrait Gallery) a laboratory for conservation and conservation research in American painting materials.

The requested program increase of \$200,000 is chiefly for the expansion of the traveling exhibition program to permit it to reach areas and institutions not now possible, for the exhibition of American crafts and design in the Renwick Gallery, opened in January 1972, and for the expansion of the very successfully launched program of public education in art. A part will allow for a small extension of the funds now available for the purchase of works of art. An additional \$24,000 are requested for necessary pay for existing staff.

Need for Increase

1. Collection Management and Use (2 positions; \$55,000)

Although private donation continues to be a necessary and gratefully received source for the collection (gifts of art amounted in value to over \$350,000 in FY 1971), today key works for a proper presentation of United States art are often not available from donors. While there is no intention to duplicate holdings in other Washington collections, it is important that those areas of art best represented in the NCFA be as complete as possible. An increase of \$25,000 for purchase of works of art in FY 1973 is requested, making available a total sum of \$100,000 for purchases.

The conservation laboratory, which serves both the National Collection of Fine Arts and the National Portrait Gallery, needs a facility for the restoration and conservation of works on paper to care for the growing collection of prints and drawings. An assistant conservator specializing in paper is requested (\$9,000) and \$4,000 for outfitting the laboratory for this work.

Basic to NCFA's function as a center for the recording and study of American art is the archive of photographs and photographic negatives. The Juley Archive of some 150,000 negatives will shortly join the collection, in addition to the material from the Bicentennial Inventory of American Painting and from the continuing research project on government sponsored art of the 1930's. An archives technician is needed to put this material in order and to supervise the archive (\$12,000); \$5,000 are requested for initial equipment.

2. Program of Exhibitions (2 positions; \$99,000)

For the exhibition program of the newly opened Renwick Gallery, presenting historical and educational exhibitions on American design and craft, funds of

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.



D. C. Public High School. Students working in the print workshop at the NCFAs as part of the Design Graphics Program.

\$70,000 are required for FY 1973. These exhibitions, planned and installed by the staff of NCFA in close association with craft and design organizations throughout the country, serve both as introduction to United States accomplishments in this area and as education in the "visual language" of craft and environmental design. An exhibits specialist is needed for the Renwick to work in association with NCFA's department of exhibition and design (\$8,000).

The Smithsonian Traveling Exhibition Service (SITES), which for the most part is self-supporting, at present circulates some 115 exhibitions a year on arts, history, and science throughout the country, reaching areas that would otherwise have no possibility of actual exhibitions. In FY 1971, 750 areas were served. It is planned to expand the service to circulate 160 exhibitions in FY 1973 to be shown in 1,100 installations. Rising costs of preparation and shipping, however, make it necessary to support the program if it is to reach areas and institutions that cannot afford higher fees. For greater economy and efficiency, shops for the expert mounting and packing of exhibitions have been set up in the NCFA. To maintain and expand the service \$10,000 are needed for the full operation of the shops. An exhibition specialist (\$11,000) is required to aid in the actual mounting of exhibitions.

3. Public Education in Art (2 positions; \$46,000)

The education program of the NCFA, begun during FY 1971, has been of much interest both to schools and museums in the United States and to visitors from abroad. A core of 49 volunteer docents, intensively trained by the NCFA staff, conduct imaginative sessions in the galleries both for children and adults (some 1,000 tours in FY 1971). To reach older children, a print workshop in which students and teachers can work with visiting artists has been established in close association with the department of prints and drawings, made possible by the donation of four excellent etching and lithograph presses. (See the following photograph). A small press is used for demonstrations in the schools. In addition, materials drawn from the collection are being prepared for use by schools in programs of American history, literature, and art. An education department gallery has been active in showing the works of school children and young artists. This ambitious and successful program has been carried on by a very small staff (three positions) and a minimal operating budget drawn in part from outside grants. To make the most of its excellent beginning, especially in the area of educational exhibitions and direct school contacts, the program needs an additional \$17,000 for materials, lecture, and demonstration development. Furthermore, to handle scheduling and other routine operations, releasing the professional staff for more work with the public, a clerk-typist is badly needed (\$8,000). In order to extend the program to the newly opened Renwick Gallery, an additional general education specialist is requested (\$11,000).

The program of scholarship in American art, begun in FY 1971, has proved a value both to the cause of recovery and reevaluation of American art and to the vital operation of other museum programs. It has now been supplemented with a museum intern program to train students in various aspects of museum work, from education to conservation. To provide facilities for these expanded programs for the educational use of the Collection and other Washington Institutions, and to support additional study, \$10,000 are needed for FY 1973.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

NATIONAL PORTRAIT GALLERY

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>39</u> | <u>7</u> | <u>46</u> |
| 11 Pers Comp | \$ 541 | \$ 61 | \$ 602 |
| 12 Pers Benefits | 44 | 4 | 48 |
| 21 Travel | 11 | | 11 |
| 22 Trans of Things | 28 | | 28 |
| 23 Rent, Comm & Util ... | 8 | | 8 |
| 24 Printing | 8 | | 8 |
| 25 Other Services | 76 | 41 | 117 |
| 26 Supplies & Materials .. | 58 | | 58 |
| 31 Equipment | 124 | 100 | 224 |
| 41 Grants | ----- | ----- | ----- |
| TOTAL | <u>\$ 898</u> | <u>\$ 206</u> | <u>\$ 1,104</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 16 |
| Program | 190 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Acquisition of Portraits (\$100,000). Two-thirds of the Gallery's collection of nearly 550 portraits have come by gift. Already in FY 1972 gifts with an appraised value of over \$200,000 have been received. These include portraits of three signers of the Declaration of Independence. It has been necessary, however, to purchase portraits to enlarge the exhibit and study potential. About \$100,000 is now budgeted for this purpose. Increasingly strong market competition for portraits, especially of major figures of the American Revolution and other periods, makes it necessary to enlarge the purchase fund over the next several years. A increase of \$100,000 is requested for this purpose.

Catalog of American Portraits (2 positions; \$34,000). As the only union catalog of portrait information in the United States, the Catalog of American Portraits is an invaluable reference tool to locate, identify, and study portraits and their artists. Additional field research and processing and cataloging of data are required to make the CAP definitive. Two new positions, a cataloger and a key punch operator (\$14,000), and funds primarily for the regional collection of data by local authorities are requested (\$20,000).

History Department (1 position; \$27,000). Gallery attendance and special tours are increasing as a result of greater public awareness and interest. In turn, this creates additional demands for the development of new exhibitions and publications. An amount of \$21,000 is requested to fund short-term research projects by scholars. An additional clerk-typist (\$6,000) is required for manuscript preparation.

Administration and Technical Services (4 positions; \$29,000). This request would provide an administrative assistant and clerk typist in the office of the director (\$16,000) and photographic laboratory and library technicians in the support units shared with the National Collection of Fine Arts to meet a growing number of public requests for photographic reproductions and library materials (\$13,000).

NATIONAL PORTRAIT GALLERY

| | |
|-------------------------|----------------------|
| 1971 Actual | \$ 782,000 |
| 1972 Appropriation..... | \$ 887,000 <u>1/</u> |
| 1973 Estimate | \$1,104,000 |

The National Portrait Gallery is the only national museum of American history which is devoted to the portraits of the men and women who made that history. The portrait, because it is a visual record of a person and era, bears strong witness to each sitter's role in the American experience and is a crucial part of historical evidence. The National Portrait Gallery attempts to bring to that history a sense of the human elements involved.

The Gallery's current activities can be grouped into four major categories: (1) the expansion and care of the collections; (2) public education through programs with schools and adult groups, and through exhibition of the permanent collection and specially researched and organized loan exhibitions illustrating particular subject areas of American history and portraiture; (3) the research, publication, and national distribution of catalogs of these exhibitions, as well as other studies, both scholarly and popular in nature, related to American history and portraiture; and (4) the compilation of a definitive Catalog of American Portraits to be a comprehensive data bank and national information service on American history and biography comprised of entries on all portraits of historically significant Americans.

A program increase of \$190,000 is sought to augment the acquisitions fund; to collect additional data for the Catalog of American Portraits; to increase the History Department's capacity to do research for special exhibitions and publications on American history and portraiture for public education; and to add support staff in the library and the photography lab shared with the National Collection of Fine Arts and in the administrative offices use. An additional \$16,000 are requested for necessary pay for current staff.

Need for Increase

1. Acquisition of Portraits (\$100,000)

When established in 1962 (PL 87-443), the Gallery's collection consisted only of a handful of portraits elsewhere in the Smithsonian and several held at the National Gallery of Art, purchased by Andrew Mellon for eventual transfer to a National Portrait Gallery, when and if one were established. Since that time, the collection has grown to nearly 550 portraits. Although two-thirds of these have come by gift, it has been necessary to acquire the remainder by purchase.

For FY 1972 the Gallery has budgeted \$100,000 for purchases (among the works thus far acquired are portraits of Gen. Robert E. Lee, President Zachary Taylor, and Gen. William Clark of the Lewis and Clark Expedition-- at a total cost of \$50,000 for the three), and has already received gifts of portraits whose appraised value is in excess of \$200,000 (including portraits of three signers of the Declaration of Independence--Thomas Nelson, Md.; George Clymer, Pa.; and George Read, Dela.).

Over the next few years, the Gallery, as well as many other American institutions and private collectors, will be increasingly interested in portraits of the period of the American Revolution. Because of their rarity,

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

their prices, already high, will be much higher. The National Portrait Gallery is actively seeking to locate such portraits, as well as those of major figures of other periods who should be represented in the national study and exhibit collections.

A major increase in acquisition funds is requested (\$100,000) to provide the Gallery with an annual purchase fund of \$200,000 beginning in FY 1973. This increment will help the NPG build toward a fund of \$500,000 by 1976.

2. Catalog of American Portraits (2 positions; \$34,000)

The CAP is the only union catalog of portrait information in the United States. As such, it is of incalculable use to the Gallery in locating portraits for the permanent collection, in assisting other institutions and private persons in identifying both the subjects and artists of portraits, and to scholars studying the history of our nation from the point of view of the men and women who made that history. Although already of considerable use to the Gallery, scholars, and the general public, the CAP must be as definitive as possible before it can be a truly valuable resource.

To help achieve this goal, the CAP requires an additional \$34,000 for field research and the processing and cataloging of new data as it is collected. This funding will provide for contracts with local experts to gather portrait data in their regions and for related travel, photography, and clerical assistance. Two new positions, a cataloger and a keypunch operator will code and record the increased flow of information as well as help meet a growing number of public inquiries regarding the Catalog.

3. History Department (1 position; \$27,000)

Gallery attendance for the first six months of FY 1972 (125,000) is up 44 percent over the comparable period in FY 1971. Over the same period, the number of visitors taking educational tours on various aspects of American history has increased from 750 to 4,300. Special exhibitions and publications distributed throughout the country are greatly stimulating interest in the Gallery. The continued quality of these efforts depends to a large extent on the history department which needs to supplement its present staff with scholars working under contract on short term projects related to the exhibition and publication program. An amount of \$21,000 is requested to provide the equivalent of one man year of services and necessary support in FY 1973. For typing manuscripts and performing various other clerical duties, a clerk-typist is required (\$6,000) to supplement the work of the one secretary presently serving the history department.

4. Administration and Technical Services (4 positions; \$29,000)

The support staff for the office of the director presently consists of two secretaries. This staff level is now insufficient to support the administrative operation of the Gallery's expanding programs. Two positions are requested, for an administrative assistant and a clerk typist (\$16,000).

Demands on the photographic laboratory (shared with the National Collection of Fine Arts) have increased along with the expansion of the collection and of the exhibition schedule. The photography of works of art requires particular skills to deal with the three-dimensional qualities of sculpture and the color of paintings. Increasingly, the NPG and NCFR are receiving requests from publishers, authors, and film producers, as well as from the general public for quality reproductions of items in the collections. Many of these items are painstakingly photographed by specially trained

photographers, but the film must be sent out for processing and printing because the museums lack the staff to handle the work. Much of this outside work is of poor quality. To support the two photographers presently on the staff, a position for a photo lab technician is requested. He will assist with processing and printing and at the same time be trained in the complicated methods of art photography, which will be of great future value to both galleries (\$6,000).

The library, also shared with the NCFA and the Archives of American Art, has been building its collections to serve the needs of the Smithsonian and the members of the public who utilize its materials for research purposes. Both groups are making increasing demands on the Library staff. A library technician is requested to relieve the middle level professional library staff in the routine work of processing, cataloging, and ordering needed accessions so they can devote more time assisting users of the library (\$7,000).

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

JOSEPH H. HIRSHHORN MUSEUM AND SCULPTURE GARDEN

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>21</u> | <u>14</u> | <u>35</u> |
| 11 Pers Comp | \$260 | \$126 | \$386 |
| 12 Pers Benefits | 22 | 12 | 34 |
| 21 Travel..... | 9 | 6 | 15 |
| 22 Trans of Things | 3 | 7 | 10 |
| 23 Rent, Comm & Util ... | 45 | -7 | 38 |
| 24 Printing | 4 | 61 | 65 |
| 25 Other Services | 256 | -213 | 43 |
| 26 Supplies & Materials.. | 22 | -1 | 21 |
| 31 Equipment | 14 | 1,422 | 1,436 |
| 41 Grants..... | | | |
| TOTAL | <u>\$635</u> | <u>\$1,413</u> | <u>\$2,048</u> |

Analysis of Increase

| | |
|-------------------|-------|
| Pay Increase..... | 13 |
| Program..... | 1,400 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Preparations for Opening and Operating the Museum (14 positions). A continued phased buildup of staff is required to conduct research, exhibition, education, and technical support programs in the new Museum scheduled to open in 1973. The requested 14 additional personnel are primarily technical and support staff and include museum specialists, technicians, and aides; clerical personnel; and staff for conservation, photography, and framing shops. Also included are professional level personnel to supervise exhibit and education programs. Many of these persons will be hired to coincide with the completion of the building in December 1972. No new funds are requested for these positions in FY 1973 because the initial conservation and restoration work and costs will decline in that year, thus freeing funds in the base appropriation.

Furnishing of the Building Interior (\$1,400,000). Approximately \$1,426,000 of furnishings and equipment not included in the original construction contract must be obtained and installed to permit effective functioning of the Museum. An increase of \$1,400,000 is requested to meet such non-recurring costs as storage display screens (\$400,000); furnishings and equipment for exhibit galleries, other public areas, and administrative and laboratory spaces(\$894,000); security systems (\$50,000); exterior lighting and landscaping(\$50,000); and other items (\$32,000). These are one-time, nonrecurring expenditures.

JOSEPH H. HIRSHHORN MUSEUM AND SCULPTURE GARDEN

| | | |
|-------------------------|-------------|-----------|
| 1971 Actual | \$ 385,000 | |
| 1972 Appropriation | \$ 630,000 | <u>1/</u> |
| 1973 Estimate | \$2,048,000 | |

The Joseph H. Hirshhorn Museum and Sculpture Garden, now under construction on the Mall, will house a magnificent gift to the nation of more than 7,000 paintings and sculptures. The world-renowned sculptures in the collection range historically from antiquity to the present. The depth of representation of major sculptors of the nineteenth and twentieth centuries is unique. The paintings in the collection are primarily twentieth century. Beginning with such precursors as Thomas Eakins and Winslow Homer, the course of American painting is extensively covered. Complementing the American section is a strong group of significant European paintings of the past three decades. For museum officials, scholars, students, and publishers, the Hirshhorn collection continues to be a major source of documentation in the field of modern art.

The Act of November 7, 1966, authorized construction of the Museum and designated the Mall site. Building construction began in March 1970, and the estimated completion is December 1972. All phases of the work are presently geared to prepare for the opening of the Museum by the fall of 1973. See Table I for the schedule of major activities.

The requested program increase of \$1,400,000 is required for the furnishing and equipping of the building. These are one-time, nonrecurring expenditures. An additional \$13,000 are sought for necessary pay for current positions. Table II summarizes current and projected operating and nonrecurring costs through FY 1974.

Need for Increase

1. Preparing for the Opening and Operating of the Museum (14 positions)

In order that the Hirshhorn Museum may conduct a full and balanced program of public exhibitions, educational activities, research, and technical support, a continued phased buildup of staff is required. In the expectation that the building will be ready for occupancy in the middle of FY 1973, 14 new positions are requested. As a result of the predicted drastic reduction of expenditures to prepare works of art for the opening exhibition, the entire FY 1973 costs of these positions can be met from the existing operating base appropriation. No new funds are requested for these positions in FY 1973.

The requested 14 additional personnel in the 1973 budget are primarily technical and support staff and include museum specialists, technicians, and aides; clerical personnel; and personnel to staff conservation, photography, and framing shops. Also included are professional level personnel to supervise the exhibits and educational programs. Many of these persons will be hired to coincide with the completion of the building.

Funds are in the budget request for other contractual service costs related to the collections, the rental of working space and services, and photography to document the collections for exhibits and research purposes. Funds have also been included in this request for transportation and movement of household goods of Smithsonian Institution personnel transferring with the collection to Washington, D.C. as well as for essential travel of senior administrative and curatorial personnel.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

2. Furnishing of the Building Interior (\$1, 400, 000)

Approximately \$1, 426, 000 of furnishings and equipment not included in the original construction contract must be obtained and installed to permit functioning of the Museum. Construction costs of \$16, 000, 000 (\$15, 000, 000 appropriated by Congress, and a \$1, 000, 000 gift by Mr. Hirshhorn) will provide the Institution with a basic museum building, including necessary utility equipment. This amount does not permit the Museum to be completed to the point necessary for public exhibition and educational programs. It does not provide storage facilities for the collection nor furnishings and equipment for exhibit galleries, public areas, or administrative and laboratory spaces. To insure a prompt opening to the public after completion of construction, it is essential that procurement and installation of furniture, furnishings, moveable equipment, and other items be provided in FY 1973. An increase of \$1, 400, 000 is requested for this purpose.

The interior furnishings such as drapes, carpeting, lighting, etc., are mandatory for the opening and continued functioning of the Museum. Furniture for museum personnel is a necessity for efficient operation of the curatorial, technical, and administrative staffs. Garden benches and gallery furniture must be in place to accommodate the anticipated crowds attending the opening show and the continuing exhibitions. Such items as work sinks and tables for the various shops must be installed if the Museum is to perform the necessary preparation, maintenance, and protection of the collections. An itemization of the \$1, 426, 000 by functions is shown on Table II.

It is estimated that the FY 1974 request for operating funds for the Hirshhorn Museum and Sculpture Garden will be at least \$1, 000, 000 below the present request.

TABLE I
JOSEPH H. HIRSHHORN MUSEUM & SCULPTURE GARDEN

Schedule of Major Activities - FY 1972 - 1974

| FY 1972 | | | FY 1973 | | | FY 1974 | | |
|---|--|--|---------|-----|-----|---------|-----|-----|
| Jul | | | Jul | Oct | Dec | Jul | Sep | Oct |
| Buildings Construction | | | | | █ | | | |
| Mock-up Installation and Hanging of Exhibition - Opening Show | | | | | | | | █ |
| Equipment - Furnishings for Interior | | | | | | | | █ |
| Catalog of Opening Exhibition | | | | | | | | █ |
| Transfer of Collection | | | | | | | | █ |
| Inventory of Collection | | | | | █ | | | |

Scheduled
Occupancy

TABLE II
JOSEPH H. HIRSHHORN MUSEUM & SCULPTURE GARDEN

| <u>Operating Costs</u> | <u>FY 1971</u> | <u>FY 1972</u> | <u>FY 1973</u> | <u>FY 1974</u> |
|---|----------------|------------------------------|------------------|----------------|
| Positions | 18 | 21 | 35 | 60 |
| Staff Costs (including benefits) | \$ 185,000 | \$ 277,000 | \$ 420,000 | \$ 692,000 |
| Conservation & Restoration | 140,000 | 200,000 | 40,000 | 0 |
| Supplies, Materials and Equipment | 15,000 | 36,000 | 31,000 | 47,000 |
| Other (Exhibits, Planning, travel, education program) | <u>45,000</u> | <u>117,000</u> | <u>131,000</u> | <u>166,000</u> |
| Subtotal, regular operation | \$ 385,000 | \$ 630,000 | \$ 622,000 | \$ 905,000 |
| <u>Nonrecurring costs</u> | | | | |
| Storage display screens | | | \$ 400,000 | |
| Coatroom furnishings & area lights | | | 8,000 | |
| Gallery furnishings | | | 210,000 | |
| Lamps and partitions | | | 32,000 | |
| Fourth floor furnishings | | | 205,000 | |
| Photography Lab | | | 27,000 | |
| Library shelving | | | 50,000 | |
| Registrars office and staff lunchroom | | | 19,000 | |
| Stone pedestals | | | 95,000 | |
| Security systems | | | 50,000 | |
| Exterior lighting and landscaping | | | 50,000 | |
| Examination Lab | | | 38,000 | |
| Conservation Lab | | | 65,000 | |
| Auditorium furnishings | | | 67,000 | |
| Tour guides | | | 60,000 | |
| Sales room | | | <u>50,000</u> | |
| Subtotal, nonrecurring costs | | | \$ 1,426,000 | |
| TOTAL | \$ 385,000 | \$ 630,000 ^{1/} | \$ 2,048,000 | \$ 905,000 |

^{1/} FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

FREER GALLERY OF ART

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>8</u> | <u>6</u> | <u>14</u> |
| 11 Pers Comp | \$61 | \$64 | \$125 |
| 12 Pers Benefits | 6 | 6 | 12 |
| 21 Travel..... | | | |
| 22 Trans of Things..... | | | |
| 23 Rent, Comm & Util ... | | 2 | 2 |
| 24 Printing | | | |
| 25 Other Services..... | 3 | 1 | 4 |
| 26 Supplies & Materials.. | 3 | 5 | 8 |
| 31 Equipment | 9 | 20 | 29 |
| 41 Grants..... | | | |
| TOTAL | <u>\$82</u> | <u>\$98</u> | <u>\$180</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 3 |
| Program..... | 95 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

The Freer's private funds are no longer able to sustain the Gallery's programs even at their present level. The growth in private expenses has not been the result of new staff or programs but from inflation in salaries, acquisitions costs, and other normal operations.

Public and scholarly use of the Freer is increasing. It is now urgent to begin a phased program of additional federal fund support and thus more adequately meet the terms of the 1906 Deed of Gift.

Conservation and Research (3 positions; \$37,000). A chemist and computer time (\$15,000) are required in the Technical Laboratory for research in connection with the analysis and identification of objects in the collection. This work is done to gain a better understanding of the physical and chemical nature of these objects for their preservation and for clues as to how they were made in ancient times. Two restorers (\$22,000) in the Oriental Picture Mounting Studio are needed to repair and restore 10th to 20th century paintings and drawings for exhibition and study.

Reference Collections (3 positions; \$33,000). One librarian and two photographers and funds for equipment (\$33,000) will be used for cataloging and documenting the Gallery's resources and to provide materials for the use of researchers and the general public.

Exhibits, Maintenance, and Operations (\$25,000). The requested amount will provide supplies and material for the construction of exhibit cases (\$5,000), a saw and jointer to replace wornout equipment (\$3,000), the installation of ultraviolet filters to protect paintings from light (\$15,000), and carpeting in the library (\$2,000).

FREER GALLERY OF ART

| | |
|-------------------------|---------------------|
| 1971 Actual | \$ 57,000 |
| 1972 Appropriation..... | \$ 80,000 <u>1/</u> |
| 1973 Estimate | \$180,000 |

The Freer Gallery of Art houses one of the world's most distinguished collections of Oriental Art. Including over 10,000 works of art from China, Japan, Korea, India, and the Near East, the collection covers paintings, sculptures, and other objects in stone, wood, lacquer, jade, pottery, porcelain, bronze, gold, and silver. Items not currently on exhibition and the library of 40,000 volumes are available and used extensively by the Gallery's staff and numerous visiting scholars and students. The two-fold program envisaged by the founder involves the continuing search for works of the highest quality that may be added to the collections and the continuing study of these works of art as keys to understanding the civilizations that produced them.

An appropriations increase of \$95,000 is requested to provide basic support to programs of conservation and research, reference collections management, building operations, and exhibition. Additional funds in the amount of \$3,000 are requested for necessary pay for current positions.

Need for Increase

In 1973 the Freer will celebrate its 50th anniversary as the major research institution in Far Eastern art studies in the Western World. The Freer Deed of Gift states that the "building, when constructed, and the objects, when delivered, shall be cared for and maintained perpetually by the second part, or its successors, at its own expense." Over the years the Smithsonian has provided but a small portion of this expense. The Buildings Management Department has provided some basic services; however, the overall cost of gallery operations was borne largely by the Freer Endowment.

In the past, this sharing of support was tolerable since Freer private funding (now averaging about \$700,000 a year from dividend and other income) was sufficient to permit the Gallery to maintain its services to the public and to the scholarly world. This situation has drastically changed over the past few years and the Freer's private funds are no longer able to sustain the Gallery's programs even at their current level. The following information summarizes the problem:

--In FY 1965, private income was \$634,000 and expenses were \$590,000 thus enabling the Gallery to add about \$44,000 to its reserve which then totaled approximately \$550,000. In FY 1971, private income was \$743,000 but expenses had increased to \$967,000 and the reserve had declined to \$211,000. It is anticipated that the reserve will be eliminated by the close of FY 1972.

--The growth in private expenses has not been the result of staff growth or the initiation of new programs. The Gallery, due to a lack of funds, cannot keep pace with the demands for public and scholarly services placed on it. Employment has increased only from 28 to 30 since 1965, yet salaries and benefits costs soared from \$260,000 to \$403,000 largely as a result of pay comparability with federal salary scales. Art acquisitions have increased from \$205,000 to \$272,000, yet fewer

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

works can now be purchased since prices for objects have increased several-fold over this six year period. Inflation has greatly affected other areas of the Gallery's operations including conservation supplies and equipment, exhibition materials, and publications acquisition and printing.

Careful reviews show no areas for significant private budget cost reductions without serious curtailment of current programs. It is urgent to begin a phased program of additional federal fund support and thus meet the Institution's obligation that it assumed in 1906. Such action, if taken, will permit the Freer to maintain its status as a highly specialized public gallery and research arm of the Smithsonian Institution.

Over the next three fiscal years, the Smithsonian requires an additional \$300,000 for recurring care and maintenance of the building and of objects in the collection. Of this amount, \$95,000 are requested in the FY 1973 budget for the following operating purposes. The six positions requested are all conversions of current private roll employees.

1. Conservation and Research (3 positions; \$37,000)

The technical laboratory is responsible for research in connection with the analysis, preservation, and identification of objects in the collection and other related material. Necessary techniques include wet and instrumental chemical analysis, microscopy, electron microscopy, X-ray, and X-ray diffraction. The work done by the laboratory is for the basic purpose of gaining a better understanding of physical and chemical nature of the objects with a view of preserving them and contributing to the knowledge of how they were made in ancient times. To support this essential work, a chemist is required (\$14,000). Ongoing research projects in the technical laboratory now require the use of computers (\$1,000).

The oriental picture mounting studio's function is to repair and restore Far Eastern paintings and drawings in the collection (dating from the 10th to the 20th century) and prepare them for exhibition. Near Eastern paintings are rebacked and strengthened. Research projects are conducted in the area of Far Eastern conservation. Personnel serve as consultants and advisors to institutions, museums and individuals on the proper and necessary steps required for the preservation of oriental paintings. Students are taught the basic principles of Far Eastern conservation and the connoisseurship of papers, silks, adhesives, and pigments. The staff of the studio are highly trained artisans from the Far East. Funds for two restorers are requested (\$22,000).

2. Reference Collections (3 positions; \$33,000)

The Freer Gallery of Art library specializes in materials related to the art and culture of the Far and Near East. Books, periodicals, photographs, slides, maps, and archival material on all phases of the Freer Collection come within its jurisdiction. It is open to the public and is widely used by scholars doing research on all aspects of oriental art. In addition the Library personnel take part in the cataloging and documentation of objects in the collection and provide information about the collection on an international basis. One librarian position is requested (\$8,000) and funds for machine rental (\$2,000).

The basic function of the photographic laboratory is to record the objects in the collection, working always toward a complete photographic documentation of the Gallery's holdings. In addition, it provides photographic materials for the use of research scholars and for the conservation

laboratory. Photographs, color transparencies, and slides are produced on order for the use of scholars, educational institutions, and the general public. Two photographers are requested (\$23,000).

3. Exhibits, Maintenance, and Operations (\$25,000)

Building operations include mounting, mending, and restoring art objects, especially stone and wood sculpture; construction of storage facilities; designing and constructing exhibition cases, pedestals, bases, and other mounts and supports; construction of wood cores and panels which are essential to the restoration and preservation of Chinese and Japanese paintings and screens, and of the frames necessary to exhibit them. To maintain exhibition programs gears, glass and special fixtures for exhibition cases are requested (\$5,000). A saw and jointer are requested to replace outworn equipment (\$3,000). Installation of ultraviolet filter plastic sheeting above lay lights is needed immediately to protect priceless paintings from fading and deteriorating (\$15,000). To continue the rehabilitation program and reduce noise levels, carpeting is needed for the Library (\$2,000).

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ARCHIVES OF AMERICAN ART

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>11</u> | <u>1</u> | <u>12</u> |
| 11 Pers Comp | \$132 | \$12 | \$144 |
| 12 Pers Benefits | 10 | 1 | 11 |
| 21 Travel..... | 5 | 2 | 7 |
| 22 Trans of Things | 2 | 1 | 3 |
| 23 Rent, Comm & Util ... | 5 | 1 | 6 |
| 24 Printing | 15 | 10 | 25 |
| 25 Other Services | 4 | 1 | 5 |
| 26 Supplies & Materials .. | 3 | 1 | 4 |
| 31 Equipment | 2 | 1 | 3 |
| 41 Grants..... | | | |
| TOTAL | <u>\$178</u> | <u>\$30</u> | <u>\$208</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 5 |
| Program..... | 25 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Establishment of San Francisco Office (1 position; \$25,000). Regional offices are the chief means of locating, attracting, and acquiring valuable collections of artists' and dealers' personal papers. A position for an office director (\$8,000 on a half year's basis) is requested to establish such an office in rent-free quarters in the DeYoung Museum in San Francisco. This branch would make available to West Coast researchers the full resources of the Archives several million items documenting American Art. The balance of the increase, \$17,000, is for micro-filming and other costs in all offices. Permission has been received recently to microfilm three major collections in the New England area.

ARCHIVES OF AMERICAN ART

| | |
|--------------------------------|------------|
| 1971 Actual | \$ 166,000 |
| 1972 Appropriation. \$ 175,000 | <u>1/</u> |
| 1973 Estimate. | \$ 208,000 |

The Archives of American Art is committed to aiding research and scholarship in the history of the visual arts in this country from prior to the Revolutionary War period to the present time. It acquires, organizes, and preserves the primary documentation needed by historians -- the correspondence, diaries, business papers, and photographs of painters, sculptors, critics, dealers, and collectors, and the formal records of galleries, museums, and art societies. These collections of paper are cataloged, microfilmed, and made available to scholars.

The processing and chief reference center of the Archives is now located in space provided by the National Collection of Fine Arts and the National Portrait Gallery library. Added to the library, and to the archival material already possessed by these two museums, the Archives makes this building the major center for the study of American Art. In order to make its holdings accessible to scholars throughout the country and to develop a systematic collecting program, regional centers are currently maintained in Boston, New York, and Detroit.

The organization anticipates income from private funds of about \$115,000 in FY 1972. This income is used to support Archives' activities, such as quarterly publication and distribution of the Archives' Journal, and specialized acquisitions. It supplements on a matching basis activities supported by federal appropriations such as cataloging, information retrieval, and reference services.

An increase of \$25,000 would be used to establish a regional office in San Francisco, California, and to fund microfilming and other costs in all offices. Funding of \$5,000 is requested for necessary pay.

Need for Increase

Establishment of San Francisco Office (1 position; \$25,000)

FY 1971 was the Archives of American Art's first year as a bureau of the Smithsonian Institution. It was a period of establishing residence, organizing a Washington office staff, and working out new procedures in the handling of both administrative and archival details. By July 1971 it had become an integral part of the Smithsonian's research facilities and its resources are being intensively used by staff and fellows of the National Collection of Fine Arts, the National Portrait Gallery, the National Gallery of Art, faculty and graduate students across the country, and by scholars from such places as Chicago, London, Munich, New Orleans, New York, Paris, Seattle, San Francisco, Stockholm, and Tokyo. Significant additional collections of papers have been received.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

Regional offices are the chief means of locating, attracting, and acquiring collections of artists' and dealers' personal papers. The additional position requested is for a west coast area director to man the Archives branch office to be set up in rent-free quarters in the DeYoung Museum in San Francisco. Private funds will subsidize additional staff in this office. This branch of the Archives will make available to west coast researchers in American art and American history the full resources of the Archives' collections, three million items on microfilm (continually being added to), five million original items, taped interviews, and photographs. It will provide a wealth of primary sources information to the many universities and research centers on the west coast. Funding of \$8,000 are required for the half-year costs of this position. The balance of the requested increase, \$17,000 are for microfilming and other costs in all offices. For instance, permission has been received recently to microfilm three major collections in the New England area.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

NATIONAL ARMED FORCES MUSEUM ADVISORY BOARD

| No. of Perm. Pos. | Base 1973* | Increase Requested | 1973 Estimated |
|-----------------------------------|---------------|-----------------------|-------------------|
| | <u>6</u> | <u>1</u> | <u>7</u> |
| 11 Pers. Comp. | \$108 | \$13 | \$121 |
| 12 Pers. Benefits | 9 | 1 | 10 |
| 21 Travel | 2 | | 2 |
| 22 Trans. of Things | 1 | | 1 |
| 23 Rent, Comm. & Util. | | | |
| 24 Printing | 3 | | 3 |
| 25 Other Services | | 8 | 8 |
| 26 Supplies & Materials | 1 | 1 | 2 |
| 31 Equipment | | | |
| 41 Grants | | | |
| TOTAL | <u>\$124</u> | <u>\$23</u> | <u>\$147</u> |

Analysis of Increase

| | |
|------------------------|----|
| Pay Increase | 3 |
| Program | 20 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Bicentennial Outdoor Museum (\$9,000). During FY 1971 legislative action to establish the Bicentennial Outdoor Museum and to authorize negotiations with the Department of the Interior for acquisition of park sites was initiated. A brochure describing concept and programs was prepared. During FY 1972 staff will proceed with preliminary site development planning in anticipation of construction to commence in FY 1974 and with special research required for pursuing Bicentennial components of the outdoor museum (the nature of the Continental Army and other aspects of the Revolution). Construction planning funds are requested elsewhere in this budget. In FY 1973, \$9,000 are being requested to supplement planning for the park's construction and program operations, and to continue research to insure authenticity of the outdoor museum's Bicentennial activities.

Dwight D. Eisenhower Institute (1 position; \$11,000). During FY 1971, the effort was on classifying and cataloging a large collection of published materials for the nucleus of the Eisenhower Institute Library. Detailed planning will take place in FY 1972 to include consultation with other bureaus and agencies and continued development of collections of published materials for the Institute Library with emphasis on the American Revolution. In FY 1973 one position (secretary; \$11,000) is sought to provide essential staffing for the growing workload. By realigning existing functions, the task of administering the Institute will be performed on an interim basis by existing personnel.

NATIONAL ARMED FORCES MUSEUM ADVISORY BOARD

1971 Actual.....\$154,000
1972 Appropriation.....\$121,000 1/
1973 Estimate.....\$147,000

The National Armed Forces Museum Advisory Board, established by Public Law 87-186 (approved August 30, 1961), advises and assists the Board of Regents of the Smithsonian Institution on matters relating to establishment of a National Historical Museum Park, to be known as the Bicentennial Park and a study center to be designated the Dwight D. Eisenhower Institute for Historical Research.

For FY 1973, a program increase of \$20,000 is requested for Bicentennial Outdoor Museum program planning and for Eisenhower Institute activation. An additional \$3,000 are required for necessary pay for current staff.

Need for Increase

1. Bicentennial Outdoor Museum Program Planning and Related Preservation of Collections (\$9,000)

Pending legislation in the form of S. 2153 and H.R. 10311 seeks authority to establish at two sites on the Potomac River, Fort Foote in Prince George's County, Maryland, and Jones Point Park, on the southern edge of Alexandria, Virginia, both now in federal ownership under the jurisdiction of the Department of Interior. Endorsed by the American Revolution Bicentennial Commission in its Report to the President of July 4, 1970, this Bicentennial Outdoor Museum is designed as a living outdoor museum re-creating in authentic detail the daily camp life of the patriot soldier of the American Revolution. Construction planning funds are requested elsewhere in this budget. The following photograph portrays one highlight of the Museum's planned activity. An amount of \$9,000 is requested for program planning and supervisory expenses related to construction planning and for the preservation of collected objects many of which will be used at the Bicentennial Outdoor Museum.

2. Dwight D. Eisenhower Institute Development (1 position; \$11,000)

The Advisory Board also has conducted preliminary planning for the Dwight D. Eisenhower Institute for Historical Research, authorized by the Act of August 30, 1961, and soon to be activated. The Institute, through its programs of research and publication, will promote understanding of the historic role of the armed forces in context with the whole history of American civilization. During the Bicentennial period, the programs of both the Institute and of the Museum will be oriented especially to providing deeper insight into and understanding of the background of our Continental forebears and their struggle to establish the world's first modern republic. A secretary is requested to provide essential staffing (\$11,000).

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.



THE GREAT FAIR AT BRISTOL

PUBLIC SERVICE

The Institution has not allowed itself to rest with static presentations and exhibits of collections directed at only those persons with sufficient motivation, time, or money to visit its centrally located galleries and museums. In order to be successful in conveying the richness of the nation's heritage to a wider public, and to offer additional opportunities for appreciation of its growth and development, the Institution has sought to expand its public reach. It has achieved this in a variety of ways over the last several years.

The development of an experimental neighborhood museum in Anacostia has shown that museum operations may be carried out in a crucible of the inner city, that children may learn with delight and advantage, and that the residents of the area will treat with respect what they regard as their own center for learning and recreation. The story of the Anacostia Neighborhood Museum and its usefulness stands as one of the outstanding achievements of the Institution in recent years.

The activities of the other public service units have been no less important. There is the Folklife Festival on the Mall, sponsored annually by the Division of Performing Arts, and increasing significantly in popularity with all age groups of the nation. The success of this program is tied to the way it brings together and presents our diverse ethnic customs and reinforces the concept, to the public, that we are indeed one nation.

The world-wide character of the programs of the Office of International Activities serve to bring this nation closer to the ideal of a world community through research and dissemination of knowledge. This Office helps to deepen the intellectual and cultural ties among nations by cultivating man's curiosity about commonalities in development as evidenced in anthropology, archeology, and biology.

In this age of so-called "information explosion" the amount of material published here and abroad has a direct impact on the International Exchange Service's ability to perform its important task of improving the world's libraries. Part of its work can be viewed as helping developing nations that are striving to build their educational systems and knowledge resources. The value of the Exchange is self-evident, if we are to serve the national interest and assist countries in these vital areas.

The Office of Public Affairs serves the common causes of the Institution in a variety of ways. But its chief contribution is to serve the public by informing them of the opportunities available to further their interests, knowledge, and participation in research, exhibition, and other education activities of the Smithsonian.

ANACOSTIA NEIGHBORHOOD MUSEUM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>15</u> | <u>3</u> | <u>18</u> |
| 11 Pers Comp | \$104 | \$32 | \$136 |
| 12 Pers Benefits | 10 | 3 | 13 |
| 21 Travel..... | 3 | 2 | 5 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 29 | | 29 |
| 24 Printing | 2 | | 2 |
| 25 Other Services | 4 | 8 | 12 |
| 26 Supplies & Materials.. | 26 | 26 | 52 |
| 31 Equipment | 3 | 9 | 12 |
| 41 Grants..... | | | |
| | <hr/> | <hr/> | <hr/> |
| TOTAL | <u>\$181</u> | <u>\$80</u> | <u>\$261</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 5 |
| Program..... | 75 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Urban Studies Program (3 positions; \$50,000). The success of the Anacostia Museum has led museums in many sections of the country to consider developing similar neighborhood museums. Anacostia's success stems from its involvement in urban problems. It is concentrating on a community awareness approach to demonstrating, by exhibits and related education programs, methods of community self-help and improvement. The Carnegie Corporation, through a two-year grant, is funding a community history of Anacostia. This history will integrate the impact of political and social events on the citizens of the neighborhood and provide a better understanding of the causes of contemporary urban problems. Carnegie funds will expire in fiscal year 1972. Funds are requested to transfer three private positions (a program analyst, a research assistant, and a clerk-typist) to Federal employment (\$30,000) and provide necessary supplies, equipment, and travel (\$20,000) in order to continue this and related projects.

Exhibits Training Center (\$25,000). The Museum is negotiating with a large foundation for the establishment of a training center in Anacostia. The center would provide productive training in a needed area of museum operations to disadvantaged persons and would help fill the demands for exhibits that would extend the concept of the Anacostia Museum to other communities. A request for \$200,000 of matching funds is requested in the Bicentennial program section of this budget. An amount of \$25,000 is requested here to help obtain consulting services for developing the program curriculum and to provide other start-up support.

ANACOSTIA NEIGHBORHOOD MUSEUM

| | | |
|-------------------------|-----------|----|
| 1971 Actual | \$151,000 | |
| 1972 Appropriation..... | \$178,000 | 1/ |
| 1973 Estimate..... | \$261,000 | |

The Anacostia Neighborhood Museum was established to reach out to new audiences who are unaware of museum resources, physically too far from them, or, as inhabitants of low-income population density centers, do not see the interest or relevance of museums. Starting in 1966, the Smithsonian sought out community reaction to the concept of a permanent neighborhood museum in the inner city. Reaction was most favorable and the desire for community involvement appeared strongest in Anacostia. The Museum was founded entirely by private donations and was opened in September 1967. Exhibits concentrate on visitor involvement. Classes in sculpture, leathercraft, clay modeling, drawing, and painting have been held. A photograph of such a class appears on a following page. In subsequent months, the Museum, in close collaboration with its Neighborhood Advisory Council, began to present exhibits which the community requested, primarily in the field of Negro history. In each case, the exhibit served as a backdrop for school programs, lectures, and concerts. Four years later, the Museum has entertained and instructed about 200,000 visitors and offers a widening array of classes and youth programs. Anacostia has linked its activities directly to the needs of the community and has assured a fresh, nontraditional approach to the role of the museum.

In FY 1973 the Museum is seeking an additional \$75,000 to strengthen activities devoted to demonstrating the solutions to various urban problems, and by creating an exhibits training center which would productively serve the growing number of neighborhood museums around the country. In addition, \$5,000 are sought for necessary pay for staff.

Need for Increase

1. Urban Studies (3 positions; \$50,000)

Because the Museum has been successful, museums in many sections of the country are considering how they might also develop neighborhood museums. With regard to this effort, the American Association of Museums received a grant of \$50,000 from the Department of Housing and Urban development to do a study of neighborhood museums and other urban projects. Since the Anacostia Museum has been the successful forerunner in this area, the director of the Anacostia Museum was selected as co-chairman of a nationwide committee to undertake this project. The basic reason for the Museum's success has been its recent involvement in urban problems. Its first exhibition on rat infestation which covered the history and solution to this very pertinent problem, coupled with related films, community discussions, and dramatic presentations, catapulted this Museum into the area of urban problems. Through its exhibits and related education programs, the Anacostia Museum is concentrating on an awareness approach to demonstrating in Washington and other cities methods of community self-help and improvement. Part of the effort is directed at bringing about a better historical understanding of the importance of the Anacostia community to the past development of the city. The Carnegie Corporation, through a two year grant, is funding the initial work in this area to research a set of problems and produce a community history of Anacostia. With regard to this, many interviews of Anacostia residents have been taken by Museum staff working

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.



One of exhibits specialist, Jim Campbell, Helping a child in Arts & Crafts.

with graduate students in urban studies from Howard University and the University of Maryland. The interviews capture the viewpoints of the older residents and their perspectives on the historical community changes that have taken place over more than three-quarters of a century. This information will be utilized, along with other documentation from old newspaper files, articles, and books, to produce a community history which will integrate the impact of political and social events on the citizens of the neighborhood, and provide a better understanding of the causes and sources of contemporary urban problems. Carnegie funds will expire in FY 1972, but it is imperative that the Museum continue this and related projects. Funds are requested to transfer three private positions (a program analyst, a research assistant, and a clerk typist) to federal employment (\$30,000) along with \$20,000 for necessary supplies, equipment, and travel. The group is actively working with members of the Museum staff for the creation of better exhibitions, discussions, and demonstrations regarding community crime, drugs, housing, employment, and education problems.

2. Exhibits Training Center (\$25,000)

Currently the Museum and Institutional administration are negotiating with a large foundation for the establishment of a training center in Anacostia to serve the practical exhibit and educational needs of museums across the country. The Foundation has indicated it would be willing to support such a venture if the Federal Government will supply matching funds. A request for \$200,000 which will equip and develop the training center is presented in the Bicentennial of the American Revolution section of this budget because of this facility's potential for the preparation of Bicentennial exhibits. To help obtain consulting services for developing a program curriculum and to provide start-up support for supplies and materials, \$25,000 are being requested. The Center's objective is not only to provide productive training in a needed area of museum operations, but to help fill the demands for exhibits that would extend the concept of the Anacostia Neighborhood Museum to various other communities across the nation.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

OFFICE OF INTERNATIONAL ACTIVITIES

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>9</u> | <u>1</u> | <u>10</u> |
| 11 Pers Comp | \$ 125 | \$ 20 | \$ 145 |
| 12 Pers Benefits | 10 | 2 | 12 |
| 21 Travel..... | 5 | 2 | 7 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 1 | | 1 |
| 24 Printing | | | |
| 25 Other Services | 2 | 1 | 3 |
| 26 Supplies & Materials .. | 1 | 1 | 2 |
| 31 Equipment | | | |
| 41 Grants..... | | | |
| TOTAL | \$ <u>144</u> | \$ <u>26</u> | \$ <u>170</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 6 |
| Program..... | 20 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Administration of the Special Foreign Currency Program (1 position; \$20,000). A position for an overseas coordinator (\$16,000) is requested to help insure successful and productive cooperative work between United States and Indian research institutions in a program in environmental assessment initiated at a bi-national symposium in New Delhi, India, in February 1971. The balance of the requested increase, \$4,000, is for travel and related administrative costs of the Foreign Currency Program, including the expenses of the Advisory Councils who review and select projects for funding.

OFFICE OF INTERNATIONAL ACTIVITIES

1971 Actual\$138,000
1972 Appropriation ...\$141,000 1/
1973 Estimate\$170,000

The Office of International Activities was established in 1965 to coordinate the Smithsonian's many scientific and cultural activities abroad. In this capacity, the Office assists members of the Smithsonian staff working or contemplating work abroad. It is the Institution's point of liaison with the Department of State, American embassies and research institutes abroad, and foreign diplomatic missions in Washington.

Of special importance, are the liaison activities of the Office in support of the Smithsonian's world-wide environmental and conservation interests. The Office has recently also begun coordination of the Institution's exhibits contribution, especially on art, to the United States Information Agency for circulation abroad and of foreign exhibits displayed in the Institution and on occasion circulated in the United States by the Smithsonian Traveling Exhibition Services. The Office also coordinates the Smithsonian's international preparations for the world-wide celebration in 1973 of the 500th Anniversary of the birth of the Polish astronomer, Copernicus.

Moreover, the Office schedules international visitors to the Smithsonian, many of them for the State Department's Cultural Exchange Program, and plans and administers training programs for foreign museum techniques involving visits to the Smithsonian and other museums around the country.

Finally, the Office administers the major Special Foreign Currency Program which has received appropriations since FY 1966 totalling \$16.6 million equivalent in foreign currencies to award grants to United States institutions of higher learning, including the Smithsonian, in fields of Smithsonian interest. Grants support American basic research and museum education programs in those countries where the United States holds local currencies in "excess" of its needs.

The program increase of \$20,000 requested for FY 1973 is in support of the Foreign Currency Program. Additionally, \$6,000 are requested for necessary pay.

Need for Increase

Administration of the Special Foreign Currency Program (1 position; \$20,000)

Management of the Foreign Currency Program in South Asia has taken on special importance since development of an Indian-American program in environmental assessment was begun under Smithsonian auspices in February 1971 at a bi-national symposium in New Delhi. This U. S. National program will require a coordinator (\$16,000) to ensure successful cooperative arrangements between the Smithsonian and the Indian authorities and between United States and Indian research institutions which will cooperate in carrying it out. The coordinator would spend at least a part of each year in India for this purpose and would foster other Smithsonian Foreign Currency Program activities there and in

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

Pakistan, Ceylon, and Burma as well. Characteristically, Smithsonian sponsored scientific and cultural programs seem likely to evolve with a minimum of delay despite national political differences in the area.

The remaining \$4,000 increase is essential for travel and related expenses to enable the Foreign Currency Program to convene Advisory Councils to review the expanding activity in the major fields of Program interest and for OIA staff travel in the United States and abroad where foreign currencies are not available for this purpose.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

INTERNATIONAL EXCHANGE SERVICE

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>9</u> | <u>0</u> | <u>9</u> |
| 11 Pers Comp | \$83 | \$8 | \$91 |
| 12 Pers Benefits | 7 | | 7 |
| 21 Travel..... | | | |
| 22 Trans of Things..... | 45 | 10 | 55 |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services..... | | | |
| 26 Supplies & Materials.. | 4 | | 4 |
| 31 Equipment | | | |
| 41 Grants..... | | | |
| | <u>-----</u> | <u>-----</u> | <u>-----</u> |
| TOTAL | <u>\$139</u> | <u>\$18</u> | <u>\$157</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 8 |
| Program..... | 10 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Exchange of publications (\$10,000). The rates paid to shippers and the United States Postal Service have increased. Therefore additional funds are needed to finance these higher costs.

INTERNATIONAL EXCHANGE SERVICE

| | | |
|-------------------------|------------|-----------|
| 1971 Actual | \$ 126,000 | |
| 1972 Appropriation | \$ 137,000 | <u>1/</u> |
| 1973 Estimate | \$ 157,000 | |

Through the International Exchange Service, public and private institutions in the United States exchange their publications with organizations in other countries and receive in exchange publications from the foreign organizations. Begun in 1849 as an exchange service between the Smithsonian Institution and the learned societies in other countries, the program was so successful that five years later it was expanded to other American organizations.

When the Brussels Convention of 1886 was adopted by the United States, the Smithsonian Institution became the official exchange bureau in the United States for the international exchange of literary, scientific, and cultural publications.

14 Stat, 573, as amended, provides that the exchange of the official United States Government publications shall be made through the Smithsonian Institution.

A program increase of \$10,000 is requested. Funding of \$8,000 for necessary pay is also sought.

Need for Increase

Exchange of publications (\$10,000)

The rates paid to shippers and the United States Postal Service have increased. Therefore additional funds are needed to finance these higher costs.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
DIVISION OF PERFORMING ARTS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>7</u> | <u>3</u> | <u>10</u> |
| 11 Pers Comp | \$123 | \$26 | \$149 |
| 12 Pers Benefits | 11 | 2 | 13 |
| 21 Travel | 8 | 4 | 12 |
| 22 Trans of Things | 4 | | 4 |
| 23 Rent, Comm & Util ... | 6 | 1 | 7 |
| 24 Printing | 2 | | 2 |
| 25 Other Services | 38 | 40 | 78 |
| 26 Supplies & Materials .. | 11 | 5 | 16 |
| 31 Equipment | 3 | 10 | 13 |
| 41 Grants | | | |
| TOTAL | <u>\$206</u> | <u>\$88</u> | <u>\$294</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 2 |
| Program | 86 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Folklife and American College Theater Festivals (\$60,000). Despite the tremendous popularity of the annual Festival of American Folklife on the Mall with some 600,000 visitors, and, the American College Theater Festival, funds for production costs are increasingly difficult to raise from private sources. An increase of \$60,000 is requested for these two projects to insure their continued success.

American Indian Program and General Division Support (3 positions; \$26,000). The success of the Indian program at recent Folklife Festivals encourages the Smithsonian to build toward a comprehensive presentation of American Indian art, music, crafts, and tribal lore, both historical and contemporary, by the time of the Bicentennial. The request is to hire a highly qualified American Indian (who has worked with the Institution on the program and been paid with other funds) to coordinate and direct all future Folklife Festival Indian participations and to aid in the establishment of small museums at tribal reservations, in consonance with the purposes of the National Museum Act, and to devise other programs of Indian awareness for the Institution at large. The request would also provide two clerical positions to assist with overall Division programs (\$26,000).

DIVISION OF PERFORMING ARTS

| | | |
|-------------------------|------------|-----------|
| 1971 Actual | \$ 215,000 | |
| 1972 Appropriation..... | \$ 203,000 | <u>1/</u> |
| 1973 Estimate..... | \$ 294,000 | |

The Division of Performing Arts is responsible for the presentation of programs dealing with our national aesthetic expressions, particularly as they evidence themselves in oral, music, or dance forms, and relate to the collections of the museums. By staging such events as the annual Festival of American Folklife the Division undertakes to extend and enliven the Institution's educational services to the public.

An increase of \$86,000 is requested for the Division of Performing Arts for FY 1973. A large part of this increase would be applied to the rising production costs of the annual Festival of American Folklife on the Mall, the American College Theatre Festival, and the American Indian Program. An amount of \$2,000 is needed for necessary pay.

Need for Increase

No increase, other than funds to cover necessary pay raises, was sought for the Division of Performing Arts in FY 1972. Yet during the course of the year the Division has continued to (a) strengthen the Festival of American Folklife, to the point where it attracts over 600,000 annual visitors and is thus the Institution's single most popular public event; (b) contribute towards and co-sponsor the American College Theater Festival, along with the John F. Kennedy Center for the Performing Arts and the American Educational Theatre Association; (c) run a resident puppet theater providing an educational experience to over 150,000 children and adults a year; (d) present year-round programs in folk and contemporary music, jazz, military bands, dance, and drama at various Smithsonian museums; (e) operate a Touring Performance Service which makes available to colleges, universities, and cultural organizations across the country a variety of programs which have proved themselves before Washington audiences; and (f) served a number of state governments, federal agencies, labor unions, and other institutions by providing advice on productions tailored to their performing arts interests.

Rising costs and the increasing difficulty of obtaining private support for a program that is no longer an experiment, but rather a well established and highly popular Smithsonian extension activity, require the Institution to ask for an increase in staff personnel and direct program support.

1. Folklife and American College Theater Festivals (\$60,000)

In the years since the inception of the Folklife Festival, the Institution has had some success in obtaining the major portion of Festival funding from outside sources. Last year, for example, substantial grants were received from the State of Ohio and certain AFL-CIO member unions for special exhibits. Although the Smithsonian will continue to search vigorously for such private support, it is very difficult to obtain it for anything except special exhibits or pavilions, which, in fact, add on to the more prosaic planning, production, housekeeping, and administrative costs which the Division has to absorb. Ideally, the Division should be in a position to attract outside support for authentic, high quality performances by being able to offer matching funding to State and private contributors. The \$35,000 increase requested for program support is a beginning in this direction.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

Similarly, although the Kennedy Center has had some success in attracting commercial sponsors for the College Theater Festival, experience has shown that it is difficult to obtain enough contributions to cover the Washington production costs (rehearsals, stage sets, lighting, stage hands, house management, etc.). Consequently, the Smithsonian, responsible as a co-sponsor for this part of the Festival, has had to absorb production expenses at the expense of other activities. Since the Institution shares the Kennedy Center's view that the College Theater Festival must be supported for the near future, until it can become a self-liquidating operation, \$25,000 is requested as a minimum production support figure, based on the experience of the last three years.

2. American Indian Program and General Division Support (3 positions; \$26,000)

The Institution wishes to continue the well accepted Indian programs that have been an outstanding feature of the last two Folklife Festivals, with the objective of building up towards a comprehensive presentation of American Indian art, music, crafts, and tribal lore, both historical and contemporary, by the time of Bicentennial Year. Heretofore, the Division has literally had to patch together the Indian presentation from a wide variety of funding sources--the Bureau of Indian Affairs (BIA), state historical societies, and tribal councils, to mention but a few. The time is overdue, therefore, for the Smithsonian itself to accept more responsibility for this part of the program by hiring a highly qualified American Indian to coordinate and direct all future Folklife Festival Indian participations. Funds are requested to add such a person to the staff who has worked closely with the Division in this capacity with funds provided by outside sources. In addition to Festival preparation, the coordinator would also be engaged in a year-round effort to aid in the establishment of small museums at tribal reservations, in consonance with the purposes of the National Museum Act, and to devise other programs of Indian awareness for the Institution at large.

An additional secretary and a clerk-typist are urgently needed for the Division to handle increasing correspondence, not only for the Division's own programs, but more especially for the great volume of inquiries from state and private cultural organizations requesting advice on folklife presentations and appropriate Bicentennial celebrations (\$25,000). These additional positions would give the Division a support staff of only three out of a total of ten positions. Funds for the requested three new positions total \$26,000.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

OFFICE OF PUBLIC AFFAIRS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>12</u> | <u>1</u> | <u>13</u> |
| 11 Pers Comp | \$166 | \$15 | \$181 |
| 12 Pers Benefits | 14 | 1 | 15 |
| 21 Travel | 1 | 0 | 1 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 46 | 10 | 56 |
| 25 Other Services | 37 | 0 | 37 |
| 26 Supplies & Materials.. | 3 | 3 | 6 |
| 31 Equipment | | 4 | 4 |
| 41 Grants | | | |
| | <u> </u> | <u> </u> | <u> </u> |
| TOTAL | <u>\$267</u> | <u>\$33</u> | <u>\$300</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 8 |
| Program | 25 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Visitor Orientation and Other Services (1 position; \$25,000). Inquiries from the general public and the scientific community concerning the Institution's research, exhibits, and educational programs are increasing. A clerk-typist (\$8,000) is requested to help expedite the responses to these inquiries. Support funds for producing building guides and other visitor orientation materials are deficient and need to be increased (\$13,000). In addition, funds to modify some recording equipment used in producing the highly successful series "Radio Smithsonian" are needed (\$4,000).

OFFICE OF PUBLIC AFFAIRS

| | | |
|------------------------|------------|-----------|
| 1971 Actual | \$ 247,000 | |
| 1972 Appropriation.... | \$ 263,000 | <u>1/</u> |
| 1973 Estimate | \$ 300,000 | |

The Office of Public Affairs is responsible primarily for serving visitors to the Smithsonian and the public at large by communicating information about the Smithsonian through various media--radio, television, newspapers, popular and scientific periodicals, press releases, documentary films, the Smithsonian Calendar of Events, Dial-A-Phenomenon, and general information pamphlets and publications. Included in its presentations are the Torch newspaper, and the "Radio Smithsonian" now being heard on over 88 stations across the nation.

A program increase of \$25,000 is requested to produce visitor orientation films and other materials, provide support for answering public inquiries, and allow some equipment modification. In addition, \$8,000 are sought for necessary pay.

Need for Increase

The need to broaden the dissemination of information concerning Smithsonian programs arises from a sharply increased demand for information about the Smithsonian's museum and research programs as well as an expansion of interest in the Institution's public exhibits and educational activities. Production of additional visitor orientation films for use within the Institution's buildings and for preliminary introductory materials for the hundreds of thousands of persons planning visits to the area, would enable the Office to more fully and effectively discharge its responsibilities in an era when visitations to the Smithsonian are increasing annually.

A portion of the requested increase would be used to employ a clerk-typist (\$8,000) to help expedite the response to public inquiries. In addition, to increase the production of films, building guides and other visitor orientation materials, support funds for printing, supplies and materials are requested (\$13,000). Another portion of the request (\$4,000) would be used to improve the programming for Radio Smithsonian through modification of the Ampex recorder.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION SPECIAL PROGRAMS

This group of activities is considered to be of particular importance in implementing desired growth in the Institution's activities over the next several years. Some of these activities supplement the programs of the museums and galleries. For instance, opportunities are provided for outstanding pre-and post-doctoral investigators from across the nation to be selected for work under the supervision of the Institution's professional staff. Education services are provided by means of popular museum tours for school children and other education services. Other special programs provide the basis on which the Institution effects dramatic changes in its exhibits and research efforts. The exhibits program request is geared to complete one major exhibit on the "World of Living Things" in the Natural History Museum, and start another, "Of the People, By the People, For the People," in the National Museum of History and Technology, and plan the "Earthbound Benefits of Flight" exhibit for the National Air and Space Museum. The American Revolution Bicentennial program will continue the Institution's efforts to celebrate and portray the first two-hundred years of American history and what these developments may mean for the future. The environmental science program is in its second year as a coordinated Institutional effort to shed light on ecological problems in the nation, and the research awards request will enhance the Institution's ability to fund especially meritorious work of its professionals. The National Museum Act request is directed at strengthening the nation's museums by means of training and improved conservation, cataloging, and exhibits techniques.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

AMERICAN REVOLUTION BICENTENNIAL PROGRAM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>2</u> | <u>0</u> | <u>2</u> |
| 11 Pers Comp | \$ 98 | \$100 | \$198 |
| 12 Pers Benefits | 7 | 7 | 14 |
| 21 Travel..... | 10 | 5 | 15 |
| 22 Trans of Things..... | 3 | | 3 |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services..... | 160 | 238 | 398 |
| 26 Supplies & Materials.. | 2 | 50 | 52 |
| 31 Equipment | 120 | 200 | 320 |
| 41 Grants..... | | | |
| TOTAL | <u>\$400</u> | <u>\$600</u> | <u>\$1,000</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 0 |
| Program..... | 600 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

A total of \$1,000,000 is being requested in FY 1973, and does not represent permanent commitments to the various bureaus' and museums' appropriations bases since the program will be phased out after 1976. The amounts indicated for various efforts are considered to be logical extensions of activity started in FY 1971 and FY 1972, or needed additions to bring about the desired national result by FY 1976.

Bicentennial Exhibition Construction and Facilities (\$490,000). This funding is to continue planning and design of "A Nation of Nations" (\$350,000), "Ecology-USA/200" (\$60,000), and to supplement regular bicentennial exhibits in the National Museum of History and Technology, National Portrait Gallery, and National Collection of Fine Arts (\$80,000).

Bicentennial Survey of American Art (\$250,000). This funding will extend various efforts: the inventory of american art (\$55,000); the catalog of american portraits (\$120,000); the three volume reference bibliography on american art (\$50,000), and the survey of folk traditions (\$25,000).

Outreach (\$210,000). For production and circulation of 45 bicentennial exhibitions by the traveling exhibition service, support funds are requested (\$10,000). To continue with project and facility development for the Anacostia Neighborhood Museum's exhibits workshop and vocational training program, \$200,000 are requested to match potential private funds.

Exposition for the Nation's Capital (\$50,000). These funds will allow the Smithsonian to begin cooperative planning with other organizations.

AMERICAN REVOLUTION BICENTENNIAL PROGRAM

| | |
|-------------------------|----------------------|
| 1971 Actual | \$ 400,000 |
| 1972 Appropriation..... | \$ 395,000 <u>1/</u> |
| 1973 Estimate | \$1,000,000 |

The Smithsonian Institution is preparing to play a central and major role in the celebration of the Bicentennial of the American Revolution. The Bicentennial presents an opportunity for a wide-ranging and creative use of the Smithsonian's great capabilities and resources, which are of a nature ideally suited to the occasion and the times. We welcome the challenge and believe that our program, which has as a theme The American Experience, will meet all expectations. We will offer imaginative and exciting events and, at the same time, we will make contributions that will continue to reward the general public and the scholarly community for many years to come.

The Bicentennial undertaking at the Smithsonian will involve almost every department, and range from an entire new museum building (the National Air and Space Museum) to such minor, but often crucial, matters as the cost of the services of a single consultant. Many of these costs are not encompassed here, in this request. They will be paid for, as far as possible, out of regular appropriations, and in some instances, the National Museum of History and Technology, for example, virtually all of the regular budget received between now and 1976-77 will go increasingly into Bicentennial related activities. The amounts requested in this special appropriation over the next few years will be used to make the extraordinary effort, above and beyond the Institution's normal level of operations that is called for by this special occasion. These appropriations will be used exclusively for activities that could not otherwise take place. Permanent commitment of personnel and other additions to the various Bureaus' and Museums' appropriations base are avoided. The program will phase out after 1976, but it is designed to produce accomplishments which will remain for an extended period of time, or in perpetuity, for the citizens. For this reason, the description of FY 1973 commitments totaling \$1,000,000 (or an increase of \$600,000 over FY 1972 federal appropriations) are summarized as though they may not extend beyond FY 1973. The amounts indicated for FY 1973 activities have been subject to intense internal management review, and are considered to be logical extensions of activity started in FY 1971 and FY 1972, or needed additions to bring about the desired national result by FY 1976. A summary breakdown of the requested FY 1973 funding is presented in Table I.

With the support of the FY 1971 and 1972 appropriations for this purpose, and with every possible commitment of the Institution's regular budget, we have

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

made a strong beginning on the program itself. The work must be spread out over the intervening years, allowing lead time for the research, design, collecting, and construction which go into the production of major exhibitions, and for the nationwide information-gathering that will go into the Bicentennial Survey of American Art. Phased scheduling will assure completion of the various program components by the Bicentennial year.

This special Bicentennial funding serves dual purposes: it will normally pay for projects that are complete in themselves; and, in some cases, it will expand a special Bureau exhibit, or enrich it, for example, by the acquisition of unusual objects, or by enabling it to reach a wider national audience.

In FY 1973, a total of \$1,000,000 (or a \$600,000 increase over FY 1972) is sought to permit the accelerated pace which must take place as the year 1976 draws near.

Need for Increase

1. Bicentennial Exhibition Construction and Facilities (\$490,000)

Under this appropriation are the two pivotal, major, Bicentennial exhibitions on the Mall.

A Nation of Nations will be located at the National Museum of History and Technology (NMHT). The purpose of this exhibit is to show how groups of immigrants created a new nation with a new identity. To minimize visitor inconvenience due to closed-off exhibit space, this exhibition is to be constructed in three phases. The first will deal with the wave of immigration in the 17th and 18th centuries; the second, with the basic life experiences that were common to each group (giving special attention to the experiences of native and minority groups); and the third, with the contributions of American political ideals, attitudes, technologies, and popular culture which formed a stable, but flexible, world community.

The concept, shape, and content of this exhibition have been determined, spatial requirements have been specified, some objects have been purchased, and experimental modular units are now being developed.

During FY 1973, \$350,000 will be needed for detailed planning and for some initial redevelopment of space. A "Nation of Nations" will be more than four years in the making--a period of time not unusual for an exhibition of this scale and originality. This exhibit will remain for years after the celebration ceases as a major focus for NMHT visitor attention. It is being designed so that modifications can take place periodically to update and modernize the content.

A second facet of the exhibition effort on Bicentennial themes in Smithsonian museums by 1976 will constitute the National Museum of Natural History exhibit Ecology-USA/200. This will be, in effect, one large multifaceted exhibition of unusual depth and richness. It will present the background of our present environmental dilemma. Designers, working closely with the Museum's scientific staff, have completed preliminary studies which promise a highly interpretive exhibition presenting a historical perspective of the various changes that have occurred such as: agriculture developing in response to the needs of our growing population; the effects of technological development upon our natural surroundings as America emerged as the principal industrial nation; and the impact on the country of urbanization. The special Bicentennial funding will pay for preparatory planning and design services, the acquisition of objects (which, of course, will become permanent additions to the national collections), and the production of traveling versions and filmed versions for national circulation (which will also record for posterity our 200th anniversary). In FY 1973 this exhibition will require \$60,000 to carry forward architectural planning and detailing and to construct and test exhibit units.

In addition to funds for these two major exhibits, \$80,000 are requested to supplement the regular costs of Bicentennial exhibitions at the National Museum of History and Technology, the National Collection of Fine Arts, and the National Portrait Gallery.

2. Bicentennial Survey of American Art (\$250,000)

We are at the end of two centuries of growth. We have an established record of achievement in technology and the sciences. But there are some large gaps and unrecognized achievements in our nation's knowledge of American cultural attainments and resources. This is not surprising in a nation as young as ours, that has been scientifically and technologically "on the move." Only our foremost thinkers acknowledge that our technology and our arts have a common breeding ground--the crafts and skills that have been woven into our diverse national character since 1776. The Bicentennial Survey of American Art will take stock of achievements on a national scale, enlisting the aid of organizations and individuals in every state. The Survey will be conducted by four Smithsonian bureaus--the National Collection of Fine Arts, the National Portrait Gallery, the Archives of American Art, and the Division of Performing Arts. Using the abilities of these offices to make a concerted effort, the Survey will point to the full scope of 200 years of cultural accomplishment, and reveal as never before the fusion of great talent that was necessary to create this country.

The National Collection of Fine Arts' Bicentennial Inventory of American Paintings Executed Before 1914 is a program to search for and record the whole range of American painting from the earliest years of our history to the present century. It will significantly extend the available resources for continued study of American art and history, and enlarge and deepen our understanding of both. The focus in the earlier years must be on obtaining paintings; recording raw data on paintings; locating other works; enlisting collector and organizational commitments to initiate search and record programs; and providing assistance to these projects. Concentration will then shift to processing the data accumulated into final record form.

The Inventory got off to a good start in FY 1971, when it issued the first of a series of mailings to 3,800 small museums, historical societies, and state and local arts councils inviting active participation. About 700 initial responses were received furnishing information about collections and promising all possible cooperation. Of these, some 300 are potential survey agents. In FY 1973 it is estimated the Inventory will need \$55,000 for operating expenses and temporary appointments of personnel.

The National Portrait Gallery is assembling The Catalog of American Portraits (CAP). This is a research resource which eventually will contain photographs and documentation on thousands of American portraits in public and private collections across America. It is developing in close cooperation with the National Collection of Fine Arts Inventory. During the Bicentennial years, the Catalog will complete documentation on portraits of Americans living between 1770 and 1790. An experimental program in Richmond, Virginia in FY 1971 discovered a great many hitherto unknown portraits and developed methods of investigation that are presently being used in other states. In FY 1973 CAP will have field researchers at work in the Carolinas, Georgia, Kentucky, and Tennessee, and \$120,000 will be utilized to supplement their activity.

The Archives of American Art has as its sole Bicentennial project a Bibliography of American Art, a comprehensive reference work in three volumes. The Archives also is working closely with the National Collection of Fine Arts and the National Portrait Gallery in developing this effort. It will make available an in-depth and scholarly listing not only of major works on American art, but also of important non-book materials. A temporary staff has been set up and contributors are assigned sections of the bibliography. Each bibliographer is a specialist in the field of American art and will deal with an area directly related to his particular interest. In FY 1973 this special staff will require support of \$50,000.

The Roots of American Folk Culture program of the Division of Performing Arts is a systematic survey of folk traditions in music, dance, storytelling and crafts throughout the United States. This survey will cover urban as well as rural areas, and the contributions of indigenous as well as immigrant groups. The first results were seen in the 1971 Festival of American Folklife on the Washington Mall when Bicentennial funds allowed thousands of visitors to enjoy Northwest Coast Indian music, dance, arts and crafts. These performances were recorded on film. As part of the Roots effort, \$25,000 will continue services and research through FY 1973.

3. National Outreach (\$210,000)

The Smithsonian Institution Traveling Exhibition Service (SITES), administered by the National Collection of Fine Arts, will produce and circulate a total of 45 Bicentennial exhibitions during the period up to and including the Bicentennial year. These will be expressly for the Bicentennial celebration, in addition to SITES' normal annual activities. The objective of this plan is to make these exhibitions available at the lowest possible cost, in an effort to reach populations not normally served by touring exhibitions. The National Collection is therefore requesting funds to subsidize the production and the transportation costs involved. Each exhibition, when fully booked, will visit 12 locations during a two-year tour. Forty-five exhibitions have a potential of 540 installations; at this point the Bicentennial audience cannot be estimated, but will encompass a substantial portion of the Nation's population.

The subject matter will provide an overview of American history, science, technology, and art. Present planning calls for exhibitions organized into interrelated curricular units conceived around such central themes as "200 Years of American Transportation" or "A Nation of Builders -- A Visual History of American Engineering." In FY 1973 three experimental exhibitions, probably in an edition of more than one, will be produced and started on tour at a cost of \$10,000.

One of the more unfortunate defects of museum "outreach" programs has been a failure to offer nationally useful and meaningful services to disadvantaged and minority populations. Now, of all times, the Smithsonian almost providentially has been endowed with a capability whereby this deficiency can be corrected. The Smithsonian's Anacostia Neighborhood Museum has pioneered the production and national circulation of exhibitions to these groups by dramatically involving them in the portrayal of minority contributions to American culture. "The Frederick Douglass Years" and "The Rat -- Man's Invited Affliction" are notable examples. Both can be termed community projects, and this museum now proposes to create an

entirely new and appropriate kind of facility as a way for minority group members across the country to participate directly in expressing themselves through exhibits and related materials concerning problems which must form an important part of the Bicentennial program and the contemporary American scene.

The Anacostia Neighborhood Museum's Exhibits Production Center will be both an exhibits workshop and a vocational training facility. A preliminary design study, commissioned and completed in FY 1971, developed the concept to the point where an architect may now go to work on final specifications. This process will be unusually simple because the Center will be housed in a pre-engineered "systems building" similar to those now being constructed for schools and light industry, providing the desired space at a substantially lower cost than conventional buildings. An extremely popular concept, the Center will produce exhibitions for nationwide circulation on such subjects as urban problems and the historical contributions of America's minorities. Some exhibitions will be designed for museums; others will be capable of reproduction in sets, for use in community centers, store-fronts, and other non-museum settings. One large private foundation is very much interested in this project, but because of the national economic importance and interest being placed on new ways to channel human productivity, it desires federal recognition and support. Matching funds will be employed for equipment, vocational training, and general operations. Preliminary discussions with the National Capital Parks Commission have resulted in a tentative agreement on a site four blocks away from the Neighborhood Museum's main building.

The Smithsonian will use this facility for the production of some of its Bicentennial exhibition units. To continue with project and facility development \$200,000 are requested to match potential private funds and put the Center in operation.

4. An Exposition for the Nation's Capital (\$50,000)

There will be a great increase in the number of visitors who will come to Washington during the year of the Bicentennial. They will encounter a bewildering variety of exhibitions, performances, and other activities. The Smithsonian will be the focal point, and proposes to work closely with the National Park Service, the government of the District of Columbia, and all other interested agencies and institutions, on ways to unify and render coherent these multiple experiences; \$50,000 are requested to begin cooperative planning.

TABLE I
SMITHSONIAN INSTITUTION
SUMMARY OF PROPOSED CENTRALIZED
BICENTENNIAL OF AMERICAN REVOLUTION ACTIVITIES
FY 1973

Bicentennial Construction and Facilities and Major Exhibitions

| | |
|--|------------|
| "A Nation of Nations" (National Museum of History and Technology) | \$ 350,000 |
| "Ecology-USA/200" (National Museum of Natural History) | 60,000 |
| Supplementary Funding for National Museum of History and Technology, National Portrait Gallery, National Collection of Fine Arts planned Bicentennial Exhibits | 80,000 |

Bicentennial Survey of American Art

| | |
|--|---------|
| Inventory of American Art Executed Before 1914(National Collection of Fine Arts) | 55,000 |
| Catalogue of American Portraits (National Portrait Gallery) | 120,000 |
| Bibliography(Archives of American Art) | 50,000 |
| Roots of American Folk Culture(Division of Performing Arts) | 25,000 |

Outreach

| | |
|---|---------|
| Traveling exhibitions, SITES (National Collection of Fine Arts) | 10,000 |
| Exhibits Production and Training Center (Anacostia Neighborhood Museum) | 200,000 |

| | |
|---|---------------|
| <u>Exposition for the Nation's Capital; Inter-Agency Planning, Administration</u> | <u>50,000</u> |
|---|---------------|

| | |
|-------|-------------|
| TOTAL | \$1,000,000 |
|-------|-------------|

ENVIRONMENTAL SCIENCES PROGRAM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | 8 | 0 | 8 |
| 11 Pers Comp | \$116 | | \$116 |
| 12 Pers Benefits | 10 | | 10 |
| 21 Travel | 38 | | 38 |
| 22 Trans of Things | 2 | | 2 |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services | 63 | | 63 |
| 26 Supplies & Materials .. | 24 | | 24 |
| 31 Equipment | 22 | | 22 |
| 41 Grants | | | |
| TOTAL | <u>\$275</u> | <u>\$0</u> | <u>\$275</u> |

Analysis of Increase

| | |
|--------------------|---|
| Pay Increase | 0 |
| Program | 0 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Maintenance of Institutional Program. Congress first appropriated \$150,000 for coordinated environmental research at the Smithsonian in FY 1971. A mode of operations, sites, and problems to be studied were identified. In FY 1972 \$275,000 was appropriated for this program. Work is now underway on a variety of projects in carefully selected geographical areas using the staff resources of several of the Smithsonian science bureaus. No program increase is being sought for FY 1973 to allow time for program evaluation of areas of investigation where maximum scientific returns can be expected. Priority areas of investigation will be identified and the FY 1974 request will be geared to spur selected efforts.

ENVIRONMENTAL SCIENCES PROGRAM

| | |
|-------------------------|---------------------|
| 1971 Actual | \$150,000 |
| 1972 Appropriation..... | \$271,000 <u>1/</u> |
| 1973 Estimate..... | \$275,000 |

Amounts were appropriated in FY 1971 and 1972 for coordinated environmental research at the Smithsonian. This support enabled the separate bureaus of the Institution for the first time to develop jointly a plan to assemble and analyze biological and physical data on specific important ecosystems, with the goal of contributing to the prediction of the consequences of environmental change. Harmful ecological changes have often been attributed to man's influence, whereas research has sometimes shown that variation in natural cycles could be the cause. Thus, attempted remedies have been counter productive. The experience of the scientific staff and the accumulated collections of natural history specimens make the Smithsonian specially competent for team research. The FY 1971 amount was directed toward three activities: (1) the organization of an interdisciplinary program and establishment of a continuing mechanism for its operation; (2) the selection of sites of highest priority for study; and (3) the implementation of interrelated studies of these sites.

No program increase is being sought for FY 1973 to allow time for program evaluation of areas of investigation where maximum scientific returns can be expected. Priority areas of investigation will be identified and the FY 1974 request will be geared to spur selected efforts.

During FY 1972 research is being directed to the following problems. This effort will continue in FY 1973.

--The National Museum of Natural History is pursuing basic biological studies of the marine fauna of Caribbean Panama. Also, Glovers Reef, in British Honduras, was selected as a primary site for intensive reef study and this work has been begun in the current year. Both of these projects are aimed at treating specific tropical marine biotopes as systems and thereby ultimately allowing predictive and management models of these complex and threatened environments to be built. As the environments involved are relatively poorly known, analyses of species composition, abundance, and interaction are prerequisite to more advanced investigations. Ultimately, electronic data processing will be employed and modeling techniques under development for simpler biological systems will be adapted to the investigations.

--The National Zoological Park, in coordination with the Smithsonian Tropical Research Institute, is conducting a radio tracking study in Panama to compare, among populations of two sympatric species of sloth, the relationship between energy utilization and social organization. This project will utilize radio tracking to include the iguana as well. Sloths, howler monkeys, and iguanas represent the dominant vertebrate biomes in the neotropical rain forest. Since all three genera are primary herbivores, an understanding of their numbers, spacing, recruitment, and turnover is essential for an interpretation of the neotropical rain forest ecosystem.

--A cooperative long-term study of natural fluctuations on Barro Colorado Island, Panama, involving measurement, experimentation, and

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

modeling of the environment has been initiated. This study is a segment of a larger program which will generate meaningful comparisons between various environments being monitored under this and other programs. There is also a Tropical Marine Environmental Monitoring Project in Panama. This project monitors the physical fluctuations of the Pacific and Atlantic offshore environments in Panama Bay and the Caribbean at specific points, continuously, and in identical manner over a number of years. Also involved are the Atlantic and Pacific intertidal zones, to compare physical stability and predictability with that of the offshore environment. Biological monitoring of intertidal organisms will determine if these can be correlated to the physical perturbations of their immediate and or more generalized surroundings.

--The Radiation Biology Laboratory site at Point Barrow, Alaska, has been in operation since April 1971, measuring the total short wave solar radiation incident there. The purpose of this site is to determine the influence of latitude, season, and the atmospheric influence on the color quality of the light received at the earth's surface. This information is to be used to help understand plant and animal responses to daylight change by comparing the incidence of arctic light with that recorded from other stations. In this way, we can begin to determine how light affects the reproductive and other physiological processes in plants and animals. This data will be of direct concern to the Tundra Biome Project, a part of the International Biological Program, and to the National Oceanographic and Atmospheric Agency which will correlate the SI spectral quality measurements with the atmospheric particle measurements. This will enable them to determine how the particulate matter in the atmosphere influences natural daylight.

--A project is underway to compare phosphorus metabolism of algae under heterotrophic and autotrophic conditions in order to be able to develop models which would be useful in understanding the problems created by the pollution of lakes, rivers, and estuaries with high levels of organic materials and phosphate. This is a laboratory study which is supplemented and coordinated with field studies at the Chesapeake Bay Center for Environmental Studies.

--The Smithsonian Astrophysical Observatory will examine and model the relationships between insolation and atmospheric variables that may be responsible for insolation change. They will also explore requirements and determine instrumentation for measuring atmospheric parameters in the interdisciplinary investigations at the various prime sites involved in the overall program of Smithsonian environmental studies. The Astrophysical Observatory at Mt. Hopkins, Arizona, has sufficient equipment so that relatively little needs to be added to the site to allow a broad investigation of the causes of the insolation variations. The Radiation Biology Laboratory will assist by installing a solar monitoring detection unit at Mt. Hopkins.

This interdisciplinary and team plan of work is given high priority by the Smithsonian and is consistent with the recommendations of the International Biological Program and with Public Law 91-438.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
MAJOR EXHIBITIONS PROGRAM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>0</u> | <u>0</u> | <u>0</u> |
| 11 Pers Comp | | | |
| 12 Pers Benefits | | | |
| 21 Travel..... | \$5 | 2 | 7 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 25 | 10 | 35 |
| 25 Other Services | 310 | 100 | 410 |
| 26 Supplies & Materials.. | 65 | 50 | 115 |
| 31 Equipment | 120 | 88 | 208 |
| 41 Grants..... | | | |
| TOTAL | <u>\$525</u> | <u>\$250</u> | <u>\$775</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 0 |
| Program..... | 250 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Preparation of Three Major Exhibitions (\$775,000). Funds are requested to complete the "World of Living Things," an environmental exhibit begun in FY 1972 (\$250,000); to design and produce "Of the People, By the People, For the People," an exhibit in the National Museum of History and Technology to show relationships between people and their government (\$500,000); and to plan "The Earthbound Benefits of Flight," an exhibit for the National Air and Space Museum to show the applications on earth of new knowledge and technology resulting from air and space flight and exploration (\$25,000).

MAJOR EXHIBITIONS PROGRAM

| | |
|-----------------------|------------|
| 1971 Actual | \$ 0 |
| 1972 Appropriation... | \$ 525,000 |
| 1973 Estimate..... | \$ 775,000 |

The Smithsonian's base appropriation for exhibits, primarily in the Office of Exhibits, is largely absorbed by the maintenance and upgrading of existing exhibits, the design of new exhibits, and a modest program of changing special exhibits. This appropriation has remained relatively static for the last several years growing only by pay supplements to meet part of the costs of pay raises. Absorption of a part of higher pay costs by the office, combined with the greatly increased costs of supplies, materials, printing, and contractual services required to produce exhibits, has virtually halted the Smithsonian's ability to continue the development of its permanent exhibits program. New permanent exhibits, space for which exists in present Smithsonian buildings, will require new nonrecurring funds for construction and installation.

Funds are being requested to complete the exhibit which received initial funding in FY 1972, "The World of Living Things." In addition, the brochure submitted as a supplement to the budget request identifies and describes two new proposed permanent exhibits of unusual timeliness, significance, and public interest. These are titled "Of the People, By the People, For the People" (an exhibit which will be developed in the National Museum of History and Technology) and "Earthbound Benefits from Flight" (to be prepared for the National Air and Space Museum).

"The World of Living Things," begun in FY 1972 with \$525,000 will require \$250,000 to complete in FY 1973. The exhibition should be ready for public opening the latter half of FY 1973. This is a major effort to interpret the "laws of nature," and will include both an introduction to ecology and the exposition of worldwide environmental balances and imbalances.

"Of the People, By the People, For the People" will be a major exhibition designed to interpret how the Government affects the lives of the people and how the people shape their government. It will deal with such matters as the ballot, expansion of suffrage, right of petition, communication, the growth of public schools, the government's role in support of research, regulations dealing with the welfare of the people, transportation, food, shelter, and security. It is estimated that a total of \$500,000 will be needed in FY 1973 to produce this exhibit, of which \$275,000 will be available as a result of the completion of the "World of Living Things."

"The Earthbound Benefits from Flight" is proposed as a major exhibition directed at two important goals: to exemplify the many applications on earth of the extensive knowledge generated in the course of developing air and space flight; and to communicate to the visiting public the possibilities for future applications. Estimated total production costs are \$423,000, of which \$25,000 are being sought in FY 1973 for planning. Funds for the design and production of the exhibit would be requested in FY 1974.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

NATIONAL MUSEUM ACT

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>3</u> | <u>0</u> | <u>3</u> |
| 11 Pers Comp | \$25 | | \$25 |
| 12 Pers Benefits | 2 | | 2 |
| 21 Travel..... | 20 | | 20 |
| 22 Trans of Things | 17 | | 17 |
| 23 Rent, Comm & Util ... | 18 | | 18 |
| 24 Printing | 45 | | 45 |
| 25 Other Services | | | |
| 26 Supplies & Materials.. | 9 | | 9 |
| 31 Equipment | 14 | | 14 |
| 41 Grants..... | <u>450</u> | <u>400</u> | <u>850</u> |
| TOTAL | <u>\$600</u> | <u>\$400</u> | <u>\$1,000</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 0 |
| Program..... | 400 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Support for the Nation's Museums (\$400,000). Public Law 91-629 approved December 31, 1970, reauthorized appropriations for the National Museum Act through fiscal year 1974 and funding of \$1,000,000 to the Smithsonian Institution each year. Of this amount \$600,000 was granted by the Congress for fiscal year 1972, of which \$100,00 were transferred to the National Endowment for the Arts and to the National Endowment for the Humanities as required by the authorizing legislation. The first meeting of the Advisory Council was held in November 1971 to determine priorities and review requests for funding. Eight projects have been funded and the balance of the appropriation will be awarded in February 1972.

The requested \$1,000,000 funding in fiscal year 1973, an increase of \$400,000, will permit the Smithsonian to support basic needs of the Nation's museums including cataloging and data access systems, museum laboratory centers for conservation and exhibits preparation, training of museum personnel, research in museum techniques, the preparation of instruction manuals, and other aspects of the National Museum Act.

NATIONAL MUSEUM ACT

| | | |
|-------------------------|----|-----------|
| 1971 Actual..... | \$ | 0 |
| 1972 Appropriation..... | \$ | 600,000 |
| 1973 Estimate..... | \$ | 1,000,000 |

Public Law 91-629 approved December 31, 1970, reauthorized appropriations for the National Museum Act through fiscal year 1974 and funding of \$1,000,000 to the Smithsonian Institution each year. Of this amount \$600,000 was granted by the Congress for fiscal year 1972.

Funds appropriated to the Smithsonian Institution for the implementation of the National Museum Act will be made available, primarily by grants and contracts, to museums, professional associations, and individuals. Such funding will be made in concert with the National Museum Act Advisory Council appointed for this purpose by the Smithsonian Institution. The membership of the Advisory Council encompasses the principal museum disciplines -- art, science, and history -- and is broadly representative of all regions of the United States. The Council will advise and assist the Secretary in determining priorities and assessing the quality of individuals and programs seeking support under the Act.

The Advisory Council met for the first time on November 10, 1971, to develop the procedures for granting funds. The members of the Council agreed that funds should be awarded to projects which advance the Museum profession at large through research, publication, training or professional assistance. The programs established at this meeting are:

- I. Technical Programs -- The increased demand on museum services and facilities has introduced many technical changes and requirements within the profession. The Advisory Council has identified three major areas where greater technical knowledge and skills are essential: a) exhibit techniques; b) conservation techniques; c) archival, library, and research resources.
- II. Curatorial/Interpretive Programs -- Museums are invaluable sources of information and research. The quality of a museum depends upon its ability to communicate information and knowledge to the community at large. The Advisory Council acknowledges the continual need for museums to study and develop their educational and interpretive resources. The following areas of study were developed: a) studies in specific subject areas provided the project has implications for the profession; b) exhibit evaluation and experimentation; c) interpretive and educational programs; and, d) studies of museum practices and functions.
- III. General Management Programs -- Recognizing that good management is essential to the overall success of any museum, the Advisory Council cited the need for continued training, research, and publication concerned with practices within the areas of general management, registration, and management of collections, and the design and planning of physical facilities.

IV. Professional Assistance Programs -- The Council reaffirmed the importance of technical aid and assistance for museums. Certain programs are essential to the continued growth of museums, such as: a) services that enable existing museums to respond more effectively to their community; b) seminars and conferences that encourage greater communications among personnel in museums and between museums and related organizations.

Eight proposals in these areas have been funded to date. Four of the eight projects were in the area of training museum personnel: 1) A series of five different training workshops for historical museum personnel; 2) Twenty work projects in conservation for graduate students; 3) A program for the development of a curriculum in museology; and 4) A six-week intensive seminar in museum administration. The remaining four proposals funded provide broad support for the profession: 5) A publication of the development of a national program on resources and resource-management in systematic biology; 6) A one-year pilot project to establish a consultant service for small historical museums whose budgets are less than \$50,000 per year; 7) Support for the U. S. Committee of the International Council of Museums; and 8) A publication on historical preservation, agencies, and museum practices.

Forty proposals have already been submitted to the Advisory Council; another twenty-four known applications are in preparation. The total sum of these applications exceed two million dollars. In addition, over 300 inquiries have been received by the Office of Smithsonian and National Museum Programs. In February, 1972, the Advisory Council will meet to review and award the balance of this year's appropriations.

Based upon the positive response of the museum profession to the National Museum Act, the quality of the specific requests, and the great needs of the profession, funding at the full \$1,000,000 level will permit the Smithsonian to support fully all aspects of the National Museum Act as conceived and requested.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ACADEMIC AND EDUCATIONAL PROGRAMS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>22</u> | <u>2</u> | <u>24</u> |
| 11 Pers Comp | \$144 | \$29 | \$173 |
| 12 Pers Benefits | 17 | 2 | 19 |
| 21 Travel | 7 | | 7 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 3 | 2 | 5 |
| 25 Other Services | 487 | 24 | 511 |
| 26 Supplies & Materials .. | 7 | 5 | 12 |
| 31 Equipment | 12 | 11 | 23 |
| 41 Grants | | | |
| TOTAL | <u>\$677</u> | <u>\$73</u> | <u>\$750</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 8 |
| Program | 65 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Elementary and Secondary Education (2 positions; \$65,000). Two junior grade staff associates (\$23,000) are requested to extend the Institution's capability to produce school tours in the National Museum of History and Technology and the National Museum of Natural History. In addition, \$42,000 support funds are urgently sought to help produce educational materials, filmstrips, and cassettes to be used by children in the classroom or home.

ACADEMIC AND EDUCATIONAL PROGRAMS

| | |
|-------------------------|---------------------|
| 1971 Actual..... | \$596,000 |
| 1972 Appropriation..... | \$674,000 <u>1/</u> |
| 1973 Estimate..... | \$750,000 |

A major Smithsonian objective is to make its resources for learning available to the formal education community and to the general public. These efforts take the form of programs in higher education, seminar activities, and offerings at the elementary and secondary education level.

Since 1965 the Smithsonian has offered support under its programs in higher education to 93 Ph. D. candidates and 83 postdoctoral investigators to enhance their ability as scholars and teachers through collaboration and study with the Institution's research staff. Over 50 undergraduate and first- and second-year graduate students have been offered the opportunity to consult the Institution's research staff and collections for short periods. These opportunities are extended both to strengthen the research capabilities of the Smithsonian and to make available to the scholarly and scientific community the Institution's specialized resources.

Seminar activities fall into three major program components: the International Symposia series; major colloquia, often in cooperation with other institutions of learning; and annual interdisciplinary lecture series. In 1973 the Smithsonian's Fifth International Symposium will be held as part of the worldwide tribute to Copernicus on his 500th birthday. This will be in co-sponsorship with the National Academy of Sciences and the cooperation of UNESCO.

Elementary and secondary education activity includes the popular escorted tours for schools, the preparation of teaching guides, lectures, and audio-visual materials, and other services. Public use of the educational facilities of the Institution is growing rapidly at all levels of training.

A program increase of \$65,000 is requested for the elementary and secondary education activities. Also requested are \$8,000 for necessary pay increases.

Need for Increase

Two positions and \$23,000 are requested to increase the school tours provided by the Smithsonian to area primary and secondary schools. In addition, \$42,000 are sought to develop kit materials, take-home publications, film strips, and pilot teaching cassettes, both for use as adjuncts to the school tours program and for loan to schools.

The two new positions are for junior grade staff associates to develop new tours, train the volunteer docents who conduct the tours, and help relieve the scientific staff in answering special requests. One staff associate would be assigned to the National Museum of History and Technology to develop new tours in American history in preparation for Bicentennial Year. Emphasis will be placed on creating tours with simple supplementary materials which, after testing at the Smithsonian, might be circulated to schools across the nation.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

The other staff associate would be assigned to the National Museum of Natural History to develop inter-disciplinary tours aimed at teaching ecological principles and environmental problems, rather than the more traditional isolated subject area tours. Examples under consideration include the demonstration of delicate web-of-life or "food chain" relationships in a closed ecological system, camouflage and mimesis as survival adaptations in the plant and animal kingdoms, and the role of climate or day versus night in the establishment of ecological niches.

The expansion will result in greater opportunities for students to learn through museum experiences. The Institution enjoys an almost endless supply of volunteer docents, but lacks the staff to supervise them and train them to conduct new tours and to develop other educational activities. The requested increase will therefore have a significant multiplier effect, increasing the number of trained docents, which in turn increases the number of tours offered, school visits scheduled and students served. (See the accompanying figures 1, 2, and 3). Increased numbers of volunteers and staff associates will see that much more effort is expended to update and vary the tours, and to involve greater experimentation with new techniques. Without increases in personnel and funding resources the Smithsonian will fall short in its obligations to respond to increasing demands for external educational services. The demands are present for more direct contact with teachers as well as students in the school communities, and these can be responded to with an increasing number of teacher workshops.

Beyond these staff associates, which represent the heart of the Smithsonian people-to-people educational efforts, there is an urgent need to strengthen the support funds available for production of classroom and curriculum oriented materials. Of particular interest in FY 1973 will be experimentation with the visual cassette, a new technological medium of potentially great educational use in the future in both school and home study.

Figure 1 -Growth of subject matter tours; and trained volunteers

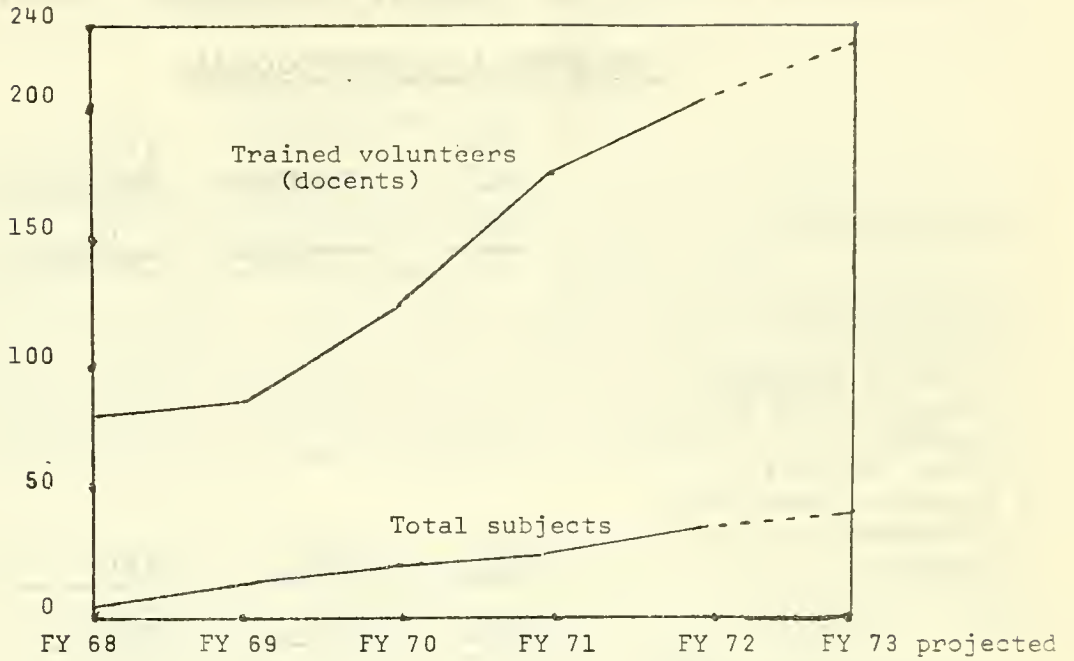


Figure 2 -Number of students serviced by elementary and secondary school tours

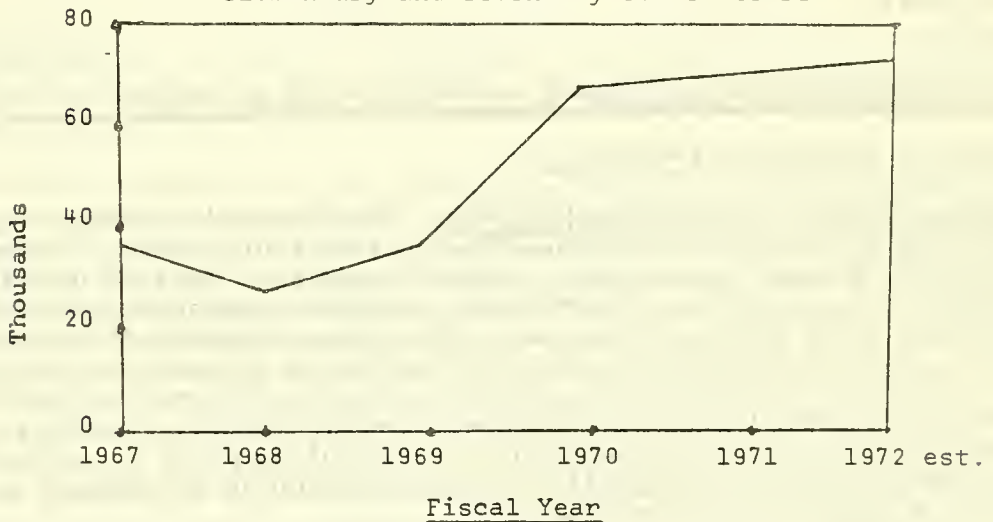
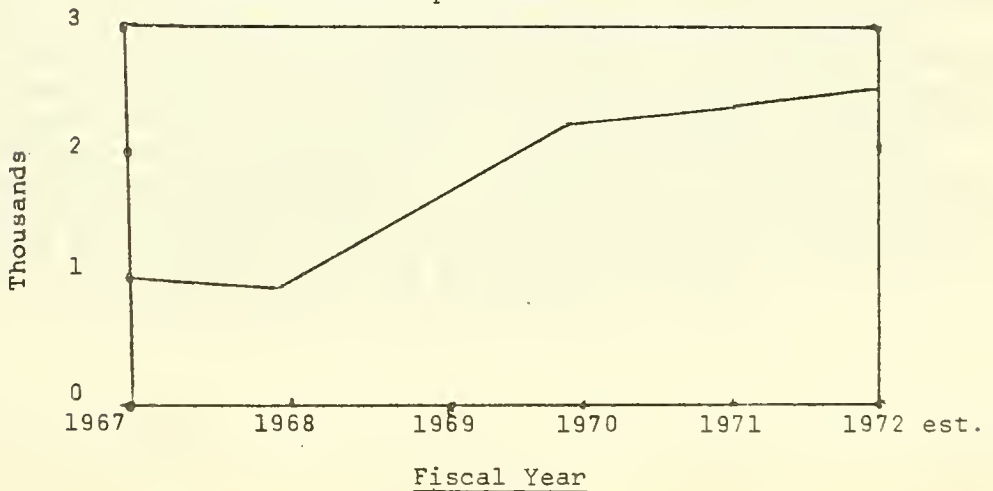


Figure 3 -Number of elementary and secondary School tours provided



RESEARCH AWARDS PROGRAM

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>0</u> | <u>0</u> | <u>0</u> |
| 11 Pers Comp | | | |
| 12 Pers Benefits | | | |
| 21 Travel | | | |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services | | | |
| 26 Supplies & Materials.. | | | |
| 31 Equipment | | | |
| 41 Grants | <u>\$425</u> | <u>\$50</u> | <u>\$475</u> |
| TOTAL | <u>\$425</u> | <u>\$50</u> | <u>\$475</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 0 |
| Program | 50 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Multi-Year Funding and Inflation (\$50,000). The Research Awards Program funds worthy research projects not funded either by the regular plans of operation of the Smithsonian's science bureaus or by outside agencies. Since its inception in FY 1966, 276 proposals have been funded and there have been more than 200 publications in the fields of biology and anthropology directly attributable to this support. The program also has enabled Smithsonian scientists to engage in productive field research with colleagues from other institutions. An additional \$50,000 is requested to help fund multiyear awards for better stability, continuity, and planning of research. This additional sum will also help to combat the higher costs of basic research brought about by past inflation in the costs of laboratory supplies, equipment, and services.

RESEARCH AWARDS PROGRAM

1971 Actual.....\$400,000
1972 Appropriation.\$425,000
1973 Estimate.....\$475,000

Prior to FY 1966, the Smithsonian Institution received funds from the National Science Foundation (NSF) for research projects of individual staff members. In the FY 1966 appropriation, the Congress prohibited the NSF from making grants for scientific research to other Government agencies. The NSF instituted a further limitation that it would no longer make grants to any agency or institution receiving direct federal appropriations. The Research Awards Program was begun in FY 1966 by an appropriation of \$350,000 to the Smithsonian Institution for the purpose of financing new or continuing research projects formerly eligible for support from the NSF. Funding for the program increased to \$400,000 in FY 1967 and in FY 1972 it was increased to \$425,000.

Proposals are submitted each year by members of the Smithsonian Institution staff to support new and innovative research. All proposals have undergone a careful scientific or scholarly review in their respective bureaus before they are reviewed by an Advisory Committee of scientists from outside the Institution. Projects are selected on the basis of their showing an imaginative and exciting approach to research and scholarship efforts: that could not normally be carried out with regularly budgeted departmental funds.

Need for Increase

For FY 1973, an increase of \$50,000 is requested to help fund multi-year awards and offset inflation in the cost of supplies, materials, and other items.

In FY 1972, members of the Smithsonian staff submitted proposals for funding up to three years in order to provide for better stability, continuity, and planning of research. There were 75 proposals received for FY 1972 amounting to \$1,674,382, of which 42 were funded in the amount of \$425,000. Advance commitments have been made for \$296,671 to second-year funding and \$106,972 to third-year funding. Thirty-three proposals were rejected. Many were deemed worthy, but funds were not sufficient to fund them.

The Research Awards Program is intended to cope with a serious problem confronting many scientists who wish to undertake non-routine fundamental research of the kind normally undertaken by university research scientists but which cannot be supported from the federal "Salaries and Expenses" appropriation. The large number of worthwhile proposals that were not funded in FY 1972, and in previous years, is of grave concern to the Institution. This concern is based on the fact that the work supported by the Research Awards Program is often the best of the Institution's productivity and the reason for acquiring scientists of the highest competence and imagination. If the Smithsonian cannot provide this kind of support, it might not attract high caliber scientists, nor retain them. Further, the program serves as an important means whereby scientists of the Smithsonian Institution may engage in collaborative field research with colleagues located in other institutions. Many opportunities for participation in expeditions and other field projects would be lost were it not for the Research Awards Program providing modest but essential, research assistance. The problem affects all the research bureaus.

DOCUMENTATION AND CONSERVATION

Museum collections, including artifacts, specimens, and works of art, are primary resources in the functions of exhibits display and research. As the curator of the National Collections, the Smithsonian houses the greatest and richest array of these resources in the nation. These must be conserved. But there are other document and information files related to these resources which are important to the public and scholarly understanding of what the collections reveal about man's technology, culture, and environment. These materials and files must be systemized, conserved, cataloged, and made more accessible. The data and information must be banked in such a way that it may be retrieved for study in conjunction with the specimens and artifacts. These "basic needs" consist of related photographic documentation, acquisition and archival information, and historical facts, as well as conservation data on physical and chemical characteristics.

The departments within the Smithsonian whose principal functions are to organize, preserve and conserve these papers and materials are:

--The Conservation Analytical Laboratory which determines, through scientific analysis, the physical and chemical nature of objects, adds this dimension to the knowledge of the objects, and guides the various museums in their artifact conservation and preservation methods.

--The Smithsonian Archives which serves as the official memory of the Institution, charged with locating, identifying, and arranging for the handling, care, and use of the official records, and other material relating to the Smithsonian and its programs.

--The Smithsonian Institution Libraries which provide cataloged and indexed collections of published materials that help to identify artifacts, objects, and specimens, and to describe the ideas they exemplify.

--The Registrar's Office which maintains the basic records on the details of acquisition of the collections and their provenance.

--The Photographic Services Division through whose services a visual record of appearance and conditions of objects can be studied, preserved, and presented in books, documents, and exhibits throughout the world.

The Institution today finds itself sadly deficient in its capability to cope with the enormous amount of document restoration, preservation, and artifact conservation work that needs to be done. This work is associated with the past and present growth of collections and collections related records. Many of our basic systems and resources in this area are obsolete, are manually operated, and are costly to maintain. Tens of thousands of valuable records are so deteriorated they need immediate attention, either through restoration processes or microfilming. The Institution's central artifact conservation facilities are operating with severe space and resource constraints. Substantial improvement needs to be made in the Institution's general capabilities for processing objects and records.

The Smithsonian's goal in stressing this activity over the new few years is to reach a level of funding that allows for major improvements to be made in the performance of conservation and documentation duties. The request is geared to strengthen initially the record preservation and restoration processes. The second major phase, which will be presented in the FY 1974 budget submission, will be the establishment and implementation of improvements in the area of conservation of the collections. As regards conservation, present investigations indicate that space devoted to conservation work should increase by about 60,000 square feet, and annual operational funding by about \$750,000 in order to constitute an adequate program for improved care of the National Collections. This present request incorporates only minor funding increases for conservation personnel and equipment for the central laboratory and represents a holding action until the Institution's space and equipment needs can be more thoroughly examined, and until some progress has been made in correcting the deficiencies related to the first step in the collections management process, i. e., the acquisition and documentation responsibilities.

The following sections speak to the individual requirements of the organizational units mentioned above.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

DOCUMENTATION AND CONSERVATION
CONSERVATION ANALYTICAL LABORATORY

| | <u>Base</u> <u>1973*</u> | <u>Increase</u> <u>Requested</u> | <u>1973</u> <u>Estimated</u> |
|----------------------------|-----------------------------|-------------------------------------|---------------------------------|
| No. of Perm Pos | <u>13</u> | <u>3</u> | <u>16</u> |
| 11 Pers Comp | \$132 | \$32 | \$164 |
| 12 Pers Benefits | 11 | 3 | 14 |
| 21 Travel | 8 | 0 | 8 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 1 | | 1 |
| 25 Other Services | 20 | | 20 |
| 26 Supplies & Materials .. | 10 | 2 | 12 |
| 31 Equipment | 8 | 66 | 74 |
| 41 Grants | | | |
| | <u>\$190</u> | <u>\$103</u> | <u>\$293</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 5 |
| Program | 98 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Conservation of Collections (3 positions; \$98,000). A program review of conservation needs for the Institution is currently under way. Space, personnel, and other support requirements necessary to cope with the enormous backlog of work and flow of new objects, are being evaluated. When these requirements are delineated they will be presented for budget consideration. The amount sought in this budget is geared only to help keep the general situation from deteriorating. In December 1971 as part of the Institutional review, the Smithsonian Council stated at its semi-annual meeting, "The functions of accessioning, curation, conservation, and collection based research are interdependent. We believe that expansion of facilities for conservation and research related to conservation is urgent. More adequate space and new instrumentation for the CAL is of high priority." The Smithsonian Council is an independent advisory body composed of twenty of the Nation's leaders in art, history, museology, and sciences. A long-run solution is being developed which will allow the conservation activities to perform work on newly acquired materials, make inroads into the Institution's backlog of needs, and strengthen the analytical work between curators and conservators. Space and logistics are an important part of the proposed development, and new capability must be established which reflects the interdependencies of collections research and conservation efforts.

The FY 1973 request is for a fumigation technician and two conservators (\$30,000), major equipment for outfitting some additional space (\$64,000), and other materials (\$4,000).

DOCUMENTATION AND CONSERVATION
CONSERVATION ANALYTICAL LABORATORY

| | |
|-----------------------|---------------------|
| 1971 Actual | \$162,000 |
| 1972 Appropriation... | \$187,000 <u>1/</u> |
| 1973 Estimate | \$293,000 |

The Conservation Analytical Laboratory (CAL) was established in 1963 to serve the museums of the Smithsonian Institution. Staffed by conservators and scientists, it ascertains and advises on the suitability, for artifacts displayed or in storage, of environmental conditions found in the buildings and suggests remedial action if necessary. Based upon examination or analysis, advice is given to curatorial units on conservation procedures for specific objects. Objects which present special problems or require more specialized equipment than is available in these units are treated in the central laboratory.

Analyses of objects or their materials (e.g. pigments, fibers, alloys or corrosion products) by advanced instrumentation serve to determine appropriate conservation procedures or to provide museum archeologists and historians with basic research data concerned with dates, attribution, and ancient production methods. Commercial products proposed for prolonged contact with artifacts (such as storage fumigants) are examined for suitability.

Shortages in the conservation program of the Smithsonian are acute, in terms of space, personnel, and operating support. A concentrated effort in rectifying these deficiencies must be made in the very near future. An Institutional plan for the general strengthening of these activities is being developed, and will be presented for Executive and Congressional approval and funding when completed. An increase of \$98,000 (including three positions and \$30,000) is requested for FY 1973 to allow the Institution to maintain basic services and to provide for some critical needs. In addition, \$5,000 are being sought for necessary pay.

Need for Increase

Accessions of artifacts number about 130,000 per year. Some single accessions represent hundreds of objects. Many of these are invaluable and a large portion require immediate and extensive treatment to forestall calamitous decay. If only thirty minutes were applied to each newly acquired object, this would represent 32 man years of necessary conservation work each year, exclusive of the backlog of attention which should be given to objects acquired in the past. Central staffing and space needed to cope adequately with the preservation and conservation of the Smithsonian's collections is estimated at thirty conservators, supported by fifteen scientists, and occupying 60,000 square feet of well-outfitted laboratory space.

The central laboratory (CAL) now has three conservators and five scientists for every kind of task; other units in the National Portrait Gallery, National Collection of Fine Arts, and the Freer Gallery total about six conservators and five scientists whose efforts are focused on specialized needs in art. The CAL occupies a desperately overcrowded 2,600 square feet. In FY 1971, with limited staff and space, it treated 358 objects (varying in nature from archeological to space-age) derived from bureaus. The amount of manpower and facilities devoted to general Institution conservation tasks are woefully inadequate.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

The requested increase of \$98,000 can be utilized effectively with the space available. The space problem for treatment must be solved. The \$98,000 will be used to alleviate the following problems:

1. Fumigation Facility (1 position; \$8,000)

Over the last year, thirty sightings of various insect groups were made. To cope partially with the problem of artifact infestation, the Institution's facilities have recently been expanded and made operational. These facilities are important because many objects arrive verminous and can contaminate the buildings. For FY 1973, an operating technician (\$8,000) will be required.

2. Accumulating Conservation Shortages (2 positions; \$26,000)

Program growth in museums and galleries has brought great pressures to bear on the current CAL staff. Two conservators (\$22,000) are needed to help with the workload, along with funds for chemicals, supplies and other support (\$4,000).

3. Conservation Equipment (\$64,000)

As a stopgap measure, some minor space is being loaned by the National Museum of History and Technology on an emergency basis. In FY 1973, funds are requested for the following:

--purchase and installation of a modern spectograph which will reduce by one-half the sample-size necessary for analytical work and double the output of the staff (\$17,000).

--purchase and installation of modern energy-dispersion detection apparatus capable of much greater output (\$47,000). Present methods and equipment for frequency dispersion analysis (using X-ray florescence) are obsolescent, time consuming, and costly.

The request presented here is considered modest in light of the level of work that soon must begin in the Institution. But it will sustain the conservation function until solutions to the space problem can be found.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

DOCUMENTATION AND CONSERVATION
SMITHSONIAN ARCHIVES

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>6</u> | <u>2</u> | <u>8</u> |
| 11 Pers Comp | \$60 | \$25 | \$85 |
| 12 Pers Benefits | 5 | 2 | 7 |
| 21 Travel | 1 | 1 | 2 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services | 3 | 15 | 18 |
| 26 Supplies & Materials .. | 2 | 4 | 6 |
| 31 Equipment | 1 | | 1 |
| 41 Grants | | | |
| TOTAL | <u>\$72</u> | <u>\$47</u> | <u>\$119</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 8 |
| Program | 39 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Consolidate, Catalog, and Process Documents (2 positions; \$39,000). In strengthening the overall Institutional capability at organizing, assembling, and making accessible the valuable records and materials in its possession, the Archives provides the central focus for a strong effort in preserving and systematizing documents for microfilming. Very few resources are presently available to undertake this task. In FY 1972, indexing and search procedures are being developed. The FY 1973 increase for two positions (\$19,000), an archivist and a technician, and support funds (\$20,000), will serve to implement search, selection, and retrieval systems for documents which need treatment, preserving, or microfilming. Units to be initially involved are the Office of the Registrar, the Libraries, and the central Archives.

DOCUMENTATION AND CONSERVATION
SMITHSONIAN ARCHIVES

| | |
|------------------------|--------------|
| 1971 Actual | \$ 59,000 |
| 1972 Appropriation ... | \$ 70,000 1/ |
| 1973 Estimate | \$119,000 |

The Smithsonian Archives is the official memory of the Smithsonian Institution and a valuable research resource for scholars in the history of American science in the 19th century. Exclusive of materials located in the research and curatorial areas of the Smithsonian (which over the next few years should be identified and protected), the Archives' current holdings amount to over one million documents from the 1830's to the present. Within currently limited resources, the Archives' staff identifies permanently valuable records throughout the Institution, preserves them for administrative, legal, and fiscal value, and provides service on these records to Smithsonian staff. This constitutes the Archives' management or service function. The Archives also makes available and interprets its holdings to the scholarly community, an activity which makes the greatest demands upon the professional capacity of the staff.

The request for FY 1973 is meant to improve substantially the Archives' ability to organize, preserve, and make accessible the considerable volume of important historical records associated with the development of science, history, and art over one hundred years. In FY 1972, work is being completed on developing a coordinated approach and system for materials in various units, the Registrar's Office, records in the central Archives, and then extending the work to the Libraries. The FY 1973 request will begin to implement the developed procedures. A portion of this effort is to be directed at searching out and identifying the various documents which need attention. A portion is to be devoted to the preservation efforts (lamination, preparation for microfilming, etc.). A total of two positions and \$39,000 are requested for this program. An additional \$8,000 are sought for necessary pay increases.

Need for Increase

1. Consolidate and Catalog Documentary Collections (1 position; \$15,000)

Over the last two or three years the Archives' staff made some progress in making accessible holdings in the central Archives by processing some 2,000 cubic feet of archival records. This represents about 10% of the work effort that needs to be accomplished across the Institution's holdings. The culmination of the completed work was publication of a guide to the Smithsonian Archives. This project established the basic approach. But the level of effort is not sufficient to keep abreast of incoming materials and to make inroads into the backlog of documents accumulated over the last one hundred years.

One additional archivist (\$11,000) and support funds (\$4,000) are requested to begin to organize and gain control over the balance of the records and documents in the Smithsonian. The work will involve searching out, identifying, and preserving valuable records in areas which to date have remained relatively untouched because of a lack of manpower to work with the material.

2. Preserve Documents (1 position; \$24,000)

Valuable manuscripts and documents throughout the Institution are subject to irreparable damage and deterioration through aging and use. It is imperative

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

that the Smithsonian begin a major effort to microfilm these materials. The Smithsonian Archives will select and designate documents in various units to be microfilmed and will provide central direction to ensure efficiency and maintenance of professional archival standards. This is an effort which must be strengthened if these records are not to be lost forever. They involve many thousands of notes, letters, and records of various notable men of science, art, and history.

In FY 1973, \$8,000 are requested for the salary of a technician working under supervision of an archivist to prepare an indexing and retrieval system for the microfilming effort. Other funds of \$16,000 are for microfilming costs related to the Archives' materials, and estimated at the National Archives and Records Service rate of 6¢ per exposure. As the capability of the Smithsonian's Photographic Services Division is established, this work will be done inhouse at no greater cost, but with much greater security and production control by the Photographic Services Division.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

DOCUMENTATION AND CONSERVATION
SMITHSONIAN INSTITUTION LIBRARIES

| | <u>Base</u> <u>1973*</u> | <u>Increase</u> <u>Requested</u> | <u>1973</u> <u>Estimated</u> |
|----------------------------|-----------------------------|-------------------------------------|---------------------------------|
| No. of Perm Pos | <u>59</u> | <u>8</u> | <u>67</u> |
| 11 Pers Comp | \$658 | \$68 | \$726 |
| 12 Pers Benefits | 56 | 5 | 61 |
| 21 Travel | 8 | 0 | 8 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 2 | 8 | 10 |
| 24 Printing | 17 | 30 | 47 |
| 25 Other Services | 39 | 19 | 58 |
| 26 Supplies & Materials .. | 57 | 9 | 66 |
| 31 Equipment | 36 | 108 | 144 |
| 41 Grants | | | |
| TOTAL | <u>\$873</u> | <u>\$247</u> | <u>\$1,120</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 15 |
| Program | 232 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Extension of Basic Services (7 positions; \$190,000). In FY 1973, basic library services will have to be strengthened for the National Air and Space Museum. Services will have to be extended to the new Hirshhorn Museum. Three library clerks and \$22,000 are required for these purposes. Staff are also requested for the Smithsonian Astrophysical Observatory branch, and the central facility in the National Museum of Natural History. An additional position (clerk and \$8,000) will be utilized for the Astrophysical Observatory, and the balance of requested staff (three clerks and \$22,000), operating out of central facilities in the National Museum of Natural History, will provide partial services to the currently unmanned branch at the Radiation Biology Laboratory, and the departments of anthropology and entomology. The request will provide needed journal and book purchase funds (\$87,000) for these areas. Support costs in the form of necessary supplies, computer time, and cataloging equipment are also included (\$51,000).

Conservation and Preservation of Books and Records (1 position; \$42,000). The Libraries have identified 10,000 pieces of valuable library material (books, journals, and other records) which require immediate preservation and restoration treatment. In addition, the backlog of binding current serials approaches 40,000. The Libraries available resources devoted to these activities amounts to virtually nothing, since rising costs in book purchases over the years has eroded much of its capability. This problem needs to be corrected over the next few years, and the initial request for one position (\$6,000) and funds to cover improved restoration and preservation processes, contractual services, inhouse repairs, and the purchase of some basic equipment and supplies, is intended to do this in a phased fashion (\$36,000).

DOCUMENTATION AND CONSERVATION
SMITHSONIAN INSTITUTION LIBRARIES

1971 Actual \$ 741,000
1972 Appropriation ... \$ 859,000 1/
1973 Estimate \$1,120,000

The Smithsonian Institution Libraries provide the documentary information base and the delivery services that are required by, and contribute directly to, the exhibit and research programs of the various bureaus of the Institution.

In FY 1973, a requested increase of \$232,000 (including 7 positions and \$58,000) is being sought to extend basic services, and strengthen the Institution capability in record preservation and conservation. An additional \$15,000 are requested for necessary pay.

Need for Increase

1. Extend Basic Services (7 positions; \$190,000)

Library staffing must be strengthened for the National Air and Space Museum, and will be required for the first time in FY 1973 for the new Hirshhorn Museum and Sculpture Garden. Three library clerks are sought for these operations. Three similar positions are also requested in the central library to serve on a shared basis in currently unmanned branches of the Radiation Biology Laboratory, and the anthropology and entomology departments of the National Museum of Natural History. Additional support (one clerk) is required for the present one-man library staff of the Smithsonian Astrophysical Observatory (this branch provides services to about 50 scientists). A total of seven positions (\$52,000) is requested for these activities.

Basic reference collections in space technology must be expanded for the National Air and Space Museum. Reference materials in specialized areas of art history must be assembled for the Hirshhorn Museum. In addition, there is an increased need to acquire materials on interdisciplinary research in ecology, environmental problems, and pre-revolutionary history. The Smithsonian Libraries over recent years have been faced with a vast world output of literature (about 350,000 titles per year) and rising prices (between four and 10 percent for journal publications). As a result, they are operating with only about one-third of the acquisition funds required by the curators. This shortage is widely felt throughout the Institution, and should be covered. An increase of \$87,000 for the purchase of books, journals, and documents is contained within this request, which will raise the amount available in the base to approximately \$160,000. As a target, the Libraries are building toward an annual book and journal purchase fund of about \$275,000.

The balance of this portion of the request (\$51,000) is for badly needed support funds to provide indexing and cataloging equipment, routine supplies, materials, computer time, and other costs.

2. Books and Record Preservation (1 position; \$42,000)

This request reflects the general Institutional interest in strengthening the restoration and preservation of valuable records and documents. The condition of many rare volumes in the Libraries is perilous. Books can withstand only so much Institutional use. Paper is an impermanent material, and the

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

Libraries' preservation program has been almost completely eliminated by inflation in other program costs. About five years ago, approximately six man-years of effort and \$65,000 were being devoted to restoration. The current figures approximate two man-years and \$18,000. The capability must be restored. The Libraries have identified more than 10,000 works that require immediate special care, including many very rare books. In addition, the Libraries have backlogged the binding of 40,000 current serials due to the shortage of funds, and are adding to this backlog at the rate of about 10,000 volumes per year. An increase to begin to take care of the preservation deficiencies is needed. The request would provide one additional support position (\$6,000) and resources for costs related to restoration and preservation processes, contractual services, in-house repairs, needed equipment and supplies (\$36,000).

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

DOCUMENTATION AND CONSERVATION
OFFICE OF THE REGISTRAR

| | <u>Base</u> <u>1973*</u> | <u>Increase</u> <u>Requested</u> | <u>1973</u> <u>Estimated</u> |
|----------------------------|-----------------------------|-------------------------------------|---------------------------------|
| No. of Perm Pos | <u>31</u> | <u>1</u> | <u>32</u> |
| 11 Pers Comp | \$236 | \$ 9 | \$245 |
| 12 Pers Benefits | 20 | 1 | 21 |
| 21 Travel | 60 | | 60 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services | 19 | 12 | 31 |
| 26 Supplies & Materials .. | 1 | | 1 |
| 31 Equipment | 1 | | 1 |
| 41 Grants | | | |
| TOTAL | <u>\$337</u> | <u>\$22</u> | <u>\$359</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 4 |
| Program | 18 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973
Specification of Increase (Program):

Preserve Accession, Archival and Other Records (\$12,000). To strengthen the Institutional document preservation effort, \$12,000 for equipment and support funds are being sought to establish a deacidification capability to treat badly deteriorating records in various units. In the Registrar's Office alone, an estimated 18,000 important accessions papers (80,000 pages) require immediate attention. About 1,800,000 records are in the Registrar's files. Most of these need microfilming to protect against fire or other disaster. Their loss would seriously affect the research value of the collections. In FY 1972, some effort is being expended to microfilm a portion of the records. The Archives and Photographic Services Division are requesting increases to strengthen the Institutional effort.

Mail Services (1 position; \$6,000). A central mail service is maintained as part of the services provided to the museums and galleries. This facility is inadequately manned (10 clerks) to handle and distribute the two million pieces annually flowing to the Institution. One additional clerk (\$6,000) is sought to help remedy the current situation and to meet the added workload anticipated for the new Hirshhorn Museum and the recently opened Renwick Gallery.

DOCUMENTATION AND CONSERVATION
OFFICE OF THE REGISTRAR

1971 Actual \$303,000
1972 Appropriation ... \$332,000 1/
1973 Estimate \$359,000

The Office of the Registrar was established in 1881 to serve as a central point for officially accessioning and recording the specimens and objects coming into the Institution. It now has responsibility for recording and safeguarding the documents pertaining to the receipt and legal ownership of the items accessioned into the collections of the National Museum of Natural History and the National Museum of History and Technology. In addition, the Office provides essential support services to all units of the Smithsonian in their research, education, collection management, and exhibition programs, by operating the central mail room and the shipping office, handling U.S. Customs clearances, servicing public inquiries for the Museums, providing the central messenger service, and obtaining official foreign travel documents such as passports, visas, and work permits.

For FY 1973, an additional \$18,000 are requested, most of which is to meet the Registrar's contribution to strengthening the overall Institutional efforts in the area of record preservation and conservation. In addition, \$4,000 are sought for necessary pay.

Need for Increase

1. Preserve Accession Records (\$12,000)

A major Institutional deficiency exists in the unaccomplished restoration of deteriorated documents and records for effective permanent preservation. These are irreplaceable and valuable original records that provide a basic source of information for much of the National Collections, dating from the establishment of the Institution. Early papers are fragile and torn, the handwriting fading, and the creases breaking. An increase of \$12,000 for equipment and support funds is requested to permit the establishment of a de-acidification capability, and other minor treatment and restoration to be accomplished in conjunction with the expansion of Institutional preservation efforts.

In the Registrar's Office alone, an estimated 18,000 important accessions (80,000 pages) require immediate attention. In total, there are about 1,800,000 pieces, most of which need microfilming to protect against fire or other disaster. Their loss would seriously affect the research value of the collections. All of these represent working records for the Smithsonian staff and visiting scholars.

In FY 1972, some effort is being expended in conjunction with the Smithsonian Archives, to arrive at suitable procedures for selecting archival, registral, and other documents for preservation, restoration, microfilming, and retrieval. A system has been identified and funds for its initial implementation are requested in the Smithsonian Archives budget. In addition, a start was made in microfilming, through contractual services, a portion of the registral records by using funds appropriated in FY 1972. But a much greater Institutional level of effort is necessary.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

2. Mail Service (1 position; \$6,000)

Mail is distributed via approximately 192 different stations in the various Smithsonian offices, on and off the Mall. Present staffing (10 clerks and 3 messengers) of the central facility is inadequate for the sorting and delivery of 2 million pieces of mail annually. An increase of \$6,000 is requested for one additional mail clerk to improve the current situation and to meet the added workload activities anticipated for the new Hirshhorn Museum and the recently opened Renwick Gallery.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

DOCUMENTATION AND CONSERVATION
PHOTOGRAPHIC SERVICES DIVISION

| | <u>Base</u> <u>1973*</u> | <u>Increase</u> <u>Requested</u> | <u>1973</u> <u>Estimated</u> |
|----------------------------|-----------------------------|-------------------------------------|---------------------------------|
| No. of Perm Pos | <u>23</u> | <u>4</u> | <u>27</u> |
| 11 Pers Comp | \$229 | \$52 | \$281 |
| 12 Pers Benefits | 20 | 3 | 23 |
| 21 Travel..... | | | |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | 5 | 5 |
| 25 Other Services | 13 | 33 | 46 |
| 26 Supplies & Materials .. | 25 | 22 | 47 |
| 31 Equipment | | 63 | 63 |
| 41 Grants..... | | | |
| | <u> </u> | <u> </u> | <u> </u> |
| TOTAL | <u>\$287</u> | <u>\$178</u> | <u>\$465</u> |

Analysis of Increase

| | |
|-------------------|-----|
| Pay Increase..... | 16 |
| Program..... | 162 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Document Preservation and Microfilming (1 position; \$49,000). As part of the high priority effort to rectify deficiencies in preservation and conservation of various records, the Photographic Services Division is urgently seeking to expand in FY 1973 its mechanical capability in microfilming. Prototype systems have been examined by the Office of the Registrar and the Smithsonian Archives for work to be done in selecting, preparing, and eventually retrieving information associated with registral, archival, and library materials. This request is for a technician (\$9,000), and equipment, supplies, and materials (\$40,000). Funds to implement the screening and indexing systems are contained in the Archives request for FY 1973.

Laboratory Equipment (\$57,000). There is a severe need to begin to replace outdated obsolescent equipment and procedures with modern color instruments and processing. No equipment purchases have been made for ten years, and much of the current process is tied to manual operating techniques. A request for purchase and installation of equipment (\$57,000) is included.

Print, Negative Collection, and Preservation (3 positions; \$56,000). The Laboratory's current operating capacity is about one third of that needed to file, treat, and systematize prints and negatives accumulating at a rate of about 30,000 annually in the central facilities. Valuable backlogged materials (numbering close to a million) are receiving no attention, and a large percentage must begin to receive treatment or they will soon deteriorate to the point where they cannot be recovered. Three technicians (\$30,000) and support funds (\$26,000) are required.

DOCUMENTATION AND CONSERVATION
PHOTOGRAPHIC SERVICES DIVISION

| | |
|--------------------------|---------------------|
| 1971 Actual | \$255,000 |
| 1972 Appropriation . . . | \$282,000 <u>1/</u> |
| 1973 Estimate | \$465,000 |

The Smithsonian photographic services are unique in that the Institution's activities require more quality and custom care as compared to the photographic needs of most government agencies. The photographic work is constantly under public and scholarly scrutiny. In view of the importance of photographic services to the entire Institution, the Photographic Services Division was formed to exercise a more stable and positive control over the application of procedures and techniques. It maintains laboratories in three museum buildings.

In FY 1973, a \$162,000 increase is being requested to establish a badly needed color capability by replacing hand operated and obsolescent equipment, to extend the effort at centralizing and making accessible the hundreds of thousands of negatives and prints accumulated by the Institution, and to strengthen considerably the overall Institutional program of preserving the records and documents presently in the Archives, Libraries, and Registrar's offices. In addition, \$16,000 are requested for necessary pay.

Need for Increase

1. Documentation, Preservation, and Microfilming (1 position; \$49,000)

As part of its contribution to the Institutional recording and preservation efforts of various units (such as the Registrar's Office, the Smithsonian Archives, and the Libraries), the Photographic Services Division is urgently seeking additional capability to carry through with the actual microfilming of various documents. Prototype systems have been examined by the Office of the Registrar and the Smithsonian Archives for work to be done in selecting, preparing, and eventually retrieving information associated with registral and archival records. These documents will begin to flow into the Division in great magnitude in FY 1973. About 10,000 microfilm exposures currently are made per year. If this figure were to immediately increase to 1,000,000 (which reflects the potential volume of existing records), it is estimated that the workload is such that about 4-6 years of effort would be required to eliminate the backlog of materials. To meet its portion of responsibility, the Photographic Services Division is seeking one technician (\$9,000) to serve in a microfilming capacity, and support funds (\$40,000) to provide basic equipment, supplies, and other materials.

2. Laboratory Equipment (\$57,000)

Much of the present equipment is out-dated and obsolescent. Manually operated techniques dominate the production process. No equipment purchases have been made for over ten years. Much of the work, especially color processing, must be given to commercial sources. This results in high production costs, loss of quality control, and mounting risks of losing valuable and original material. To make a start in rectifying the Laboratory's equipment needs, a request for \$57,000 to begin to establish color capability and to purchase and install modern photographic duplication and processing machines is included in the FY 1973 budget.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

3. Print, Negative Collection, and Preservation (3 positions; \$56,000)

At the present, the Institution lacks even a simple filing and retrieval system for valuable negatives and prints. These number close to a million, some dating back to Mathew Brady's time. Twenty percent of these are in a very bad state of deterioration and must be centrally treated and restored within the next two years if they are not to be lost to posterity; another ten percent must be restored within four years. In the meantime, the Laboratory estimates that 30,000 negatives are accumulated each year, and its current capacity to centrally file, treat, and care for these is approximately 10,000 per year. To begin to extend the necessary efforts to correct this deficiency in the print and negative area, three technicians are requested (\$30,000) along with support funds (\$26,000) for indexing equipment, supplies and materials, and contractual services.

ADMINISTRATIVE AND CENTRAL SUPPORT

The activities presented in this section cover the central administrative and technical services which operate in support of the program units. Included are the Office of the Secretary, Office of the General Counsel, Office of the Treasurer, Office of Personnel Administration, Office of Exhibits, Office of Museum Programs, Smithsonian Press, Supply Division, Management Analysis Office, Travel Services Office, Duplicating Section, and the Information Systems Division.

In our society, a measure of how successful any organization or institution is in controlling its program direction is the degree to which it acquires new resources to develop its activities, delegates authority and decision-making in a manner which channels these resources into useful and productive areas, and holds central administrative growth and control at a minimum. This is not only true in those sectors of our society which provide economically measureable and consumable products but also those segments (such as museums and higher institutions of learning) which help to construct the moral and intellectual fabric of future generations, and provide the less measureable products which nourish the quality of the country's human spirit.

The historical funding patterns of FY's 1965-1971 reveal that the Institution in its program operations has substantially strengthened its history, art, and science functions. It has embarked on several new ventures in public service and education. It has acquired, exhibited, and protected new building space and thousands of new collection items. While pursuing these objectives, it has not allowed administrative costs to increase disproportionately to program growth. In the general public's interest, it is the Institutional management's desire to keep administrative costs at a minimum and to continue to provide as many resources to program operations as possible in insure the quality of the Institution's diverse products in exhibitions, education, research tours, and other public services. The activities contained in this section of the budget are specifically geared to carry this out. These are necessary costs which must be covered if the Institution is to continue to modernize its management apparatus consonant with the objective of keeping its overall administrative procedures, paper work, filing, and other labor-intensive tasks to a minimum.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF THE SECRETARY

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>40</u> | <u>7</u> | <u>47</u> |
| 11 Pers Comp | \$551 | \$106 | \$657 |
| 12 Pers Benefits | 47 | 9 | 56 |
| 21 Travel | 24 | 3 | 27 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 1 | 1 | 2 |
| 24 Printing | | 2 | 2 |
| 25 Other Services | 7 | 25 | 32 |
| 26 Supplies & Materials .. | 7 | 3 | 10 |
| 31 Equipment | 3 | 8 | 11 |
| 41 Grants | | | |
| TOTAL | <u>\$640</u> | <u>\$157</u> | <u>\$797</u> |

Analysis of Increase

| | |
|--------------------|-----|
| Pay Increase | 12 |
| Program | 145 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Assistant Secretary (1 position; \$42,000). An assistant secretary is requested to furnish senior level management expertise.

Expand the Audit Function (4 positions; \$45,000). The Office of Audits needs to add three additional auditors and one secretary to its present staff of four auditors and one secretary. This additional staff will assist in the audit function for the more than 40 operating units and several staff offices.

Curator for the Smithsonian Building (2 positions; \$20,000). To curate the collection of furniture currently in use in the Smithsonian Institution Building, to process and administer loan of paintings and other art, and to be responsible for the acquisition of additional authentic pieces.

Support for the American Association for the Advancement of Science (\$20,000). Funds are requested to support some of the expenses of this meeting.

General Programs Support (\$18,000). Funds are requested for general program support for the several components of the Office of the Secretary. These support needs include travel, office supplies and equipment, and use of consultants and contractual services to assist in program planning and analysis.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF THE SECRETARY

| | |
|-------------------------|---------------------|
| 1971 Actual | \$651,000 |
| 1972 Appropriation..... | \$629,000 <u>1/</u> |
| 1973 Estimate..... | \$797,000 |

The Office of the Secretary is composed of the immediate Office of the Secretary, and the Offices of Under Secretary, Assistant Secretary (Science), Assistant Secretary (History and Art), Assistant Secretary (Public Service) and Audits.

In FY 1973 a program increase of \$145,000 is requested for an assistant secretary, for enlargement of the audit staff, for curator of the Smithsonian Institution Building, for support to the meeting in Washington of the American Association for the Advancement of Science, and for general program support. An amount of \$12,000 for necessary pay is also required.

Need for Increase

1. Assistant Secretary (1 position; \$42,000)

An assistant secretary is requested to furnish senior level management expertise. The Institution currently employs an Under Secretary with non-appropriated funds. Upon his retirement, it is desirable to fill this position on the federal rolls as the Assistant Secretary.

2. Expand the Audit Function (4 positions; \$45,000)

The Smithsonian Institution has grown in recent years especially in physical facilities. Old programs have been expanded and several new programs have been added. In FY 1970 there were federal appropriations in the amount of \$33,606,000 while in FY 1973 the Institution is anticipating over \$107,000,000 in funding. Additional appropriations have been made to Museum Programs and Related Research which is a Special Foreign Currency appropriation. This has expanded the Smithsonian's responsibilities overseas.

The audit function was begun in FY 1967. This was the first time the Smithsonian had its own internal audit staff. Currently the staff consists of four auditors and one secretary. With more than 40 operating units and several staff offices and a large backlog of important audit assignments, additional audits staff are essential. The Office of Audits needs to add three additional auditors and one secretary (\$41,000) and \$4,000 for travel and equipment.

3. Curator for Smithsonian Institution Building (2 positions; \$20,000)

The Smithsonian Institution Building underwent major renovation with funds made available from the Congress. Many of the offices and galleries in this building have been restored as nearly as possible with furnishings and architectural details of the 19th century. The historical value of this building is reflected in the fact that the finance ministers from the big ten countries met in this building in December 1971. To curate the collection of furniture currently in use, to process and administer loans of paintings and other art, and to be responsible for the acquisition of additional authentic pieces, a curator and a clerk are needed for the Smithsonian Building (\$20,000).

4. Support for the American Association for the Advancement of Science meeting (\$20,000)

The American Association for the Advancement of Science (AAAS) is holding its 142nd meeting in Washington, D.C. in December 1972. The Secretary of the Smithsonian Institution will serve as the chairman of this meeting and the Smithsonian buildings and exhibits will be a focus of attention of the more than 8,000 meeting participants. The AAAS and the Institution have a long history of working together. Joseph Henry, the first Secretary of the Institution, was the second President of the AAAS.

One feature of this meeting will be a discussion of the contributions of museums of scientific inquiry and related uses of museums and extension education devices. Funds are requested to support some of the expenses of this meeting. These funds are in addition to funds being raised from local merchants, the AAAS, and the private sector of the Smithsonian.

5. General Program Support (\$18,000)

An amount of \$18,000 is requested to provide overall support to the several components of the office. These support needs include travel to Smithsonian bureaus and activities not in the immediate Washington area for program management and review, office supplies and equipment, and use of consultants and contractual services to assist with the program planning, analysis, and administration of a growing body of special programs involving several museums, galleries, or research laboratories such as the Bicentennial, Environmental Sciences, and Special Foreign Currency programs.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

OFFICE OF THE GENERAL COUNSEL

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>9</u> | <u>1</u> | <u>10</u> |
| 11 Pers Comp | \$143 | \$12 | \$155 |
| 12 Pers Benefits | 11 | 1 | 12 |
| 21 Travel | 4 | 1 | 5 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | | | |
| 25 Other Services | 1 | 3 | 4 |
| 26 Supplies & Materials .. | 2 | | 2 |
| 31 Equipment | 2 | 2 | 4 |
| 41 Grants | | | |
| TOTAL | <u>\$163</u> | <u>\$19</u> | <u>\$182</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 3 |
| Program | 16 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Legal Counsel Requirements of the Institution (1 position; \$16,000). The Office of the General Counsel handles the legal matters of the 40 different line programs and 10 staff offices of the Institution, and at the same time advises the Secretary and Board of Regents on the administration of the Institution as a whole. A secretary and funds for travel, other services, and equipment are requested.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

OFFICE OF THE GENERAL COUNSEL

| | | |
|-------------------------|-----------|-----------|
| 1971 Actual | \$151,000 | |
| 1972 Appropriation..... | \$159,000 | <u>1/</u> |
| 1973 Estimate | \$182,000 | |

The Office of the General Counsel handles the legal matters of the 40 different line programs and 10 staff offices of the Institution, and at the same time, advises the Secretary and Board of Regents on the administration of the Institution as a whole. In addition, the staff must monitor Congressional activities, judicial opinions and decisions, and Executive Branch directives and regulations to determine their applicability to and impact on the Institution's activities, and so advise the appropriate SI officials.

An increase of \$16,000 is requested for staff and other support. Funding of \$3,000 is requested for necessary pay.

Need for Increase

As a non-Governmental establishment which nevertheless operates in substantial part with appropriated funds, the legal problems of the Institution include those arising from the operations of a private, university-like, charitable corporation, as well as those common to Government organizations. Many otherwise routine matters are complicated by the pervasive necessity to maintain a rational, effective, and legal relationship between these two capacities in which the Institution functions. In addition, the OGC is responsible for the continuous analysis of Congressional activities and legislation and their impact on the Institution, and has a major role in the furtherance of the Smithsonian's own legislative program.

The Office of the General Counsel proposes to add one secretary to the staff in FY 1973 to assist in handling the increased workload of this office which has resulted from the expanded programs and interests of the Institution. At present the professional staff consists of four full-time attorneys and a Special Assistant to the Secretary, with a support staff of one administrative assistant and three secretaries. The addition of one secretary will correct the present imbalance between the professional and support staff. An amount of \$10,000 is requested to fund this additional position.

An increase of \$6,000 is sought for support costs as follows:

1. Equipment and library material

The staff has deferred the purchase of office equipment and the acquisition of legal reference material, which deferral has not allowed the best utilization of professional and support staff man-hours. With the increased workload of the staff, it is essential at this time that these purchases be made.

2. Travel

Frequent travel to the many Smithsonian operations outside the District of Columbia is necessary by the staff in the handling of legal matters ranging from compliance with local ordinances to negotiations for cooperative agreements with foreign institutions.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

3. Information

The attendance at legal seminars and conferences is required for the continuing legal education of the attorneys to insure that their opinions are based on current directions, interpretations, and applications of the law. Additionally, there has been a periodic need to secure independent professional advice on specialized and technical matters.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF THE TREASURER

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>33</u> | <u>2</u> | <u>35</u> |
| 11 Pers Comp | \$368 | \$21 | \$389 |
| 12 Pers Benefits | 30 | 2 | 32 |
| 21 Travel..... | 2 | | 2 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 200 | 20 | 220 |
| 24 Printing | | | |
| 25 Other Services | 43 | 35 | 78 |
| 26 Supplies & Materials.. | 7 | | 7 |
| 31 Equipment | 5 | | 5 |
| 41 Grants..... | | | |
| TOTAL | <u>\$655</u> | <u>\$78</u> | <u>\$733</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 8 |
| Program..... | 70 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Postage Indicia, Workmen's Compensation, and Accounting Requirements (2 positions; \$70,000). Postage indicia requirements are provided centrally within the Treasurer's Office budget. An amount of about \$200,000 will be spent in FY 1972. Increased use and higher rates will create the need for an additional \$20,000 in FY 1973.

About \$35,000 is now available to meet Workmen's Compensation costs. A recent bill from the Department of Labor (for FY 1971 costs but to be paid in FY 1973) is for \$73,000. An increase of \$35,000 is sought for this purpose.

Finally, two additional positions (\$15,000) are requested for the Accounting Division: a reception and information clerk (with typing duties) to serve the Accounting and Supply Division in new jointly-occupied space (for improved productivity) and an additional accounts maintenance clerk to handle a voucher workload growing from \$59 million in FY 1972 (in about eight accounts) to about \$67 million next year.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF THE TREASURER

| | | |
|------------------------|-----------|-----------|
| 1971 Actual | \$575,000 | |
| 1972 Appropriation ... | \$647,000 | <u>1/</u> |
| 1973 Estimate | \$733,000 | |

This office provides financial management assistance and technical services to the Smithsonian. It is composed of the Treasurer's immediate Office, the Office of Programming and Budget, and the Accounting Division. Financial planning, budgeting, accounting, contracts administration, and reporting are the responsibilities of these several units.

An increase of \$70,000 is requested to finance higher postal costs, the cost of workmen's compensation, and to provide for two additional staff in the Accounting Division. An amount of \$8,000 is needed for necessary pay.

Need for Increase

1. Postage Indicia (\$20,000)

Funding of the Institution's postage indicia requirements are provided centrally from the Office of the Treasurer. An additional \$20,000 are required to meet the additional cost of postage. In FY 1971 postage was \$155,000. Increased use and higher rates have resulted in this cost being \$200,000 in FY 1972. In FY 1973 the cost is expected to be \$220,000.

2. Workmen's Compensation (\$35,000)

The Department of Labor has billed the Smithsonian Institution \$72,801 for compensation that was paid to employees in FY 1971. This bill has to be paid to the Department of Labor in FY 1973 and is \$35,000 more than is currently being paid.

3. Accounting (2 positions; \$15,000)

The Accounting Division, the Information Systems, and the Supply Division are being relocated to rented quarters. It is hoped this move will give them adequate office space and by having the three offices located together will improve operations in each. The move will require the addition of one staff member to act as receptionist and clerk typist (\$6,000).

The Accounting Division also needs to add one accounts maintenance clerk. This unit processes the vouchers for all the Smithsonian's federal accounts: "Salaries and Expenses," "Science Information Exchange," "Woodrow Wilson International Center for Scholars," "Museum Programs and Related Research (Special Foreign Currency)", "Construction" and "Trust Funds." In FY 1972 four accounts maintenance clerks are processing expenditures totalling over \$59,000,000 and in FY 1973 expenditures are expected to be over \$67,000,000. One additional employee is required to assist in this additional workload, (\$9,000).

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF PERSONNEL ADMINISTRATION

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>32</u> | <u>3</u> | <u>35</u> |
| 11 Pers Comp | \$391 | \$41 | \$432 |
| 12 Pers Benefits | 33 | 3 | 36 |
| 21 Travel..... | 1 | | 1 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 2 | | 2 |
| 25 Other Services..... | 27 | 1 | 28 |
| 26 Supplies & Materials.. | 5 | 1 | 6 |
| 31 Equipment | 1 | 2 | 3 |
| 41 Grants..... | | | |
| TOTAL | <u>\$460</u> | <u>\$48</u> | <u>\$508</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 8 |
| Program..... | 40 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Services to Employees and Labor-Management Operations (3 positions; \$40,000). Three additional positions (a personnel consultant, a trainee, and a clerk typist) at a cost of \$36,000 and \$4,000 additional for equipment, computer time, training, and supplies are requested to improve operations in two key areas. First, there is a growing workload requirement resulting from the negotiation, implementation, and administration of union contracts. In FY 1972 four such contracts were negotiated and additional ones are anticipated in the budget year. Second, it is important to develop and enhance the operations of a training laboratory to provide basic skills training to lower graded employees to assist them in job advancement. Some 150 employees have expressed interest in such training.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF PERSONNEL ADMINISTRATION

| | |
|------------------------|---------------------|
| 1971 Actual | \$396,000 |
| 1972 Appropriation ... | \$452,000 <u>1/</u> |
| 1973 Estimate..... | \$508,000 |

The Office of Personnel Administration has responsibility for personnel administration and the operation of health services. It helps to formulate policy over a wide range of activities from manpower planning and managerial development, through employee training, performance evaluation, and labor relations. These programs generally fall into six broad categories: manpower and organization, career development, management and personnel consulting, technical and administrative support, health services, recruitment and placement and administration and direction.

The request program increase of \$40,000 will be used to improve services to employees and potential employees, and to strengthen its operations in the area of labor-management operations. An amount of \$8,000 for necessary pay is also required.

Need for Increase

The responsibility of the Office of Personnel Administration includes 20 significant programs and 16 of these programs have suffered directly or indirectly because of acute staffing shortages. The ratio of staffing for carrying out personnel office functions is one personnel employee per 125 employees serviced. While no fixed standard has been developed, this is considerably higher than comparable government agencies which average approximately one personnel employee per 80 employees serviced.

Annual reports indicate that over the last few years, the number of actions handled on a yearly basis by the staff has grown to 80,000. This is a sizable workload. In FY 1972, four union contracts were negotiated. One election was held to determine exclusive recognition and a new unit resulted. Additionally, there will be a minimum of two new contracts negotiated in FY 1973. This will require extensive staff efforts and assistance in the administration of these contracts. A portion of this increase would be used to support and enhance the operations of a training laboratory which provides basic skills training to lower graded employees to assist them in developing talents toward upward mobility. There is an identified need for providing this training; of approximately 300 employees, 153 have already applied.

In FY 1973, for the first time, the Office should make key strides forward in such programs as Personnel Management Effectiveness Evaluation, Position Management, Labor-Relations Planning, Upward Mobility, Communications Program Planning, and Development. The increased staffing will provide for more training, better program planning, a formal feedback program, more responsive assistance in hiring, and smooth implementation of the Federal Personnel Management Information System as required by the U. S. Civil Service Commission.

The requested three positions include a personnel consultant, a trainee, and a clerk typist (\$36,000). An amount of \$4,000 will provide for equipment, computer time, training, and supplies.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
SMITHSONIAN INSTITUTION PRESS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>25</u> | <u>1</u> | <u>26</u> |
| 11 Pers Comp | \$340 | \$31 | \$371 |
| 12 Pers Benefits | 29 | 2 | 31 |
| 21 Travel..... | 3 | | 3 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 364 | 27 | 391 |
| 25 Other Services | 5 | | 5 |
| 26 Supplies & Materials .. | 2 | | 2 |
| 31 Equipment | 2 | | 2 |
| 41 Grants..... | | | |
| | <u>\$745</u> | <u>\$60</u> | <u>\$805</u> |
| TOTAL | | | |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 15 |
| Program..... | 45 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase Program):

Design and Printing of Publications (1 position; \$45,000). Careful design of publications is essential to assure that the information they contain is clearly and accurately transmitted to the reader. Good design also helps secure the most economic production within the specifications set by the Joint Committee on Printing. Funds are requested to employ a specialist in the design of printed materials (\$18,000). Approximately \$350,000 are now available for printing research manuscripts, catalogs, and other publications. An additional \$27,000 are sought to print backlogged and new materials.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

SMITHSONIAN INSTITUTION PRESS

| | |
|-------------------------|---------------------|
| 1971 Actual..... | \$691,000 |
| 1972 Appropriation..... | \$738,000 <u>1/</u> |
| 1973 Estimate..... | \$805,000 |

For a century and a quarter, the Institution has achieved the diffusion of research knowledge principally through the Smithsonian Press. Most of the Press publication activity is considered as a fundamental extension of the basic research programs of the Smithsonian's museums and research laboratories. The Smithsonian Press also produces and distributes exhibit catalogs and information leaflets. This is an extension of another basic Smithsonian program, public education. Finally, the Press also furnishes the Institution with a variety of internal manuals, reports, specimen labels, and directories.

For FY 1973 an increase of \$45,000 is requested for the design of catalogs, guides, and leaflets and for the printing of additional research and exhibition publications. An additional \$15,000 is sought for necessary pay for staff.

Need for Increase

Design and Printing of Publications (1 position; \$45,000)

Increased exhibition and education activities of the National Portrait Gallery and the National Collection of Fine Arts, and the addition of the Renwick and Cooper-Hewitt Museums, have outstripped the Press's ability with present staff to design the necessary exhibition catalogs, hall guides, and public education leaflets. Careful design of these printed materials is essential, not simply for maximum transfer of information, but to secure the most economic production within the specifications set by the Joint Committee on Printing. Funds are requested to correct this problem by the addition of a specialist in the design of printed materials (\$18,000).

The Press spends about two-thirds of its efforts on publishing the results of studies performed in various Institutional laboratories and museums, and one-third on printing leaflets, pamphlets, and catalogs for use by the public. A backlog of research manuscripts or monographic publications went unpublished for lack of funds for printing. In addition, there are growing needs for the printing of catalogs describing and documenting new exhibits in the museums and art galleries. These catalogs perform a dual role. They add to the education and pleasure of visitors who have the opportunity to see the exhibits and they are available for permanent reference and research by students and scholars who cannot see the exhibition in person. Approximately \$350,000 are now available for printing research manuscripts, catalogs, and other publications. An additional \$27,000 is sought to print backlogged and new materials.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
INFORMATION SYSTEMS DIVISION

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>14</u> | <u>3</u> | <u>17</u> |
| 11 Pers Comp | \$214 | \$49 | \$263 |
| 12 Pers Benefits | 18 | 4 | 22 |
| 21 Travel..... | 3 | 0 | 3 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 9 | 3 | 12 |
| 24 Printing | | | |
| 25 Other Services | 11 | 6 | 17 |
| 26 Supplies & Materials .. | 3 | 4 | 7 |
| 31 Equipment | 2 | 0 | 2 |
| 41 Grants..... | | | |
| | <u>\$260</u> | <u>\$66</u> | <u>\$326</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 8 |
| Program..... | 58 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Storage and Retrieval of Collection and Research Data (3 positions; \$58,000).
In FY 1973, the Division will begin to help the National Museum of History and Technology develop a system for the indexing and retrieval of information concerning eighteenth century instruments for scientific measurement as a step in developing a museum-wide catalog of objects. Additional work will be necessary for the Hirshhorn Museum's system for data retrieval on the sculpture collection. Much greater assistance will have to be provided to the National Collection of Fine Arts in its efforts to construct the Bicentennial Inventory of American Paintings.

Extended efforts in computerizing information on the natural history collections will require greater Division resources. The Museum will be extending its processing efforts in the anthropology, entomology, invertebrate zoology, and mineral science collections, and the Information System Division will require additional support to keep abreast of the workload.

Computerized support will have to be given to the Archives, the Registrar, and the Photographic Services Division as they begin a major push to improve the Institution's records preservation and documentation processes.

To provide services to these areas, a mathematician, computer specialist, and operations control clerk are required (\$45,000), along with support funds for equipment, supplies, and materials (\$13,000).

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
INFORMATION SYSTEMS DIVISION

| | |
|-------------------------|---------------------|
| 1971 Actual | \$235,000 |
| 1972 Appropriation..... | \$255,000 <u>1/</u> |
| 1973 Estimate | \$326,000 |

The Information Systems Division was established in 1966 so that the Institution could take advantage of computer technology in its management areas and cope with the masses of research data and information associated with its collections. Computer specialists, mathematicians, and support personnel are now working with curators, historians, scientists, and management personnel in developing and maintaining computer systems essential to Institutional objectives. The Division is comprised of an information retrieval and indexing section, a mathematical computation section, a software systems and maintenance section, a management information systems section, and an operations/key punch section.

A program increase of \$58,000 is requested to strengthen mathematical analysis and computer processing functions. In addition, \$8,000 are required for necessary pay for current staff.

Need for Increase

Staffing and related support costs since 1966 have been very moderate considering the Division's responsibility for developing, maintaining, and coordinating the use of automatic data processing services and equipment for the Institution. In recent years, a better understanding of the computer's potential in relation to the programs of the museums and galleries has evolved and progress has been achieved in many research areas. Presently computer systems pertaining to the National Collections and scientific computations are being developed in such a way that they can be utilized in several areas with only minor modifications. Much of the requested increase will be devoted to extending this effort.

Initially the Division's work concentrated largely on management support functions; i. e., the development of improved payroll, personnel, supply, and accounting systems. In FY 1971 and FY 1972, however, approximately 70 percent of the Division's resources have been in support of research and collection management. A portion of effort will necessarily remain in the administrative area, but the main emphasis must now be on systems support and information retrieval in the science, history, and art activities.

The FY 1972 level of funding provides for a staff of 14, including key punch personnel, some of whom must work out the systems design and programming for as many as ten projects in the various bureaus. The Division, at this level of staffing, cannot offer much more to potential new customers with valid problems than a demonstration of computer capabilities. Detailed systems analysis and programming for many potential computer applications must wait for increases in professional and technician staff. A recent study in the Smithsonian identified nearly fifty massive data-handling projects, only a few of which can be automated at this time. Additional staff is needed to automate those projects and to extend the major systems and programs developed for work with the National Collections.

1/ FY 1972 appropriations adjusted by funds lapsing in 1972.

In the art and history areas, in FY 1973 the Division will begin to develop a system for the indexing and retrieval of information concerning 18th Century scientific instruments to help the National Museum of History and Technology build a museum-wide catalog of objects. In addition, a documentation system for the Hirshhorn Museum collections will be developed further. A system for indexing and retrieval of data concerning the world-renowned sculptures which span antiquity to the present, as well as the extensive collection of modern art, will provide a research tool for museum officials, scholars, students, and publishers. In FY 1973, there is the need for additional systems development of the National Collection of Fine Arts Bicentennial Inventory of American Paintings. This will create an automated file which will contain descriptive subject material relating to each painting reported into the inventory. The file will assist the curator in charge of this project with record management tasks of indexing and cataloging and will also provide other finding aids to be used for planning exhibitions and assisting art/history scholars with research tasks.

In science, the National Museum of Natural History automated retrieval and indexing system will be developed for the areas of anthropology, entomology, invertebrate zoology, and mineral sciences. Increased accuracy and efficiency in the production of catalogs, labels, and other documents is anticipated. Cross reference listings that better index the collections will result in increased availability of information.

To supplement the Smithsonian's efforts at strengthening its records preservation, restoration, and retrieval processes in the registral, archival, and photographic areas, the Division will begin to work closely with the managers of this program to develop a dynamic query - response computer system that will provide selective access to information regarding the hundreds of thousands of items in the Institution's photographic collections. The pilot system will include the subjects of highest public interest such as stamps, coins, aircraft, and locomotives. In addition, the Division will begin to experiment with computer retrieval systems for microfilm information as an alternative to the standard manual methods. These experiments will include the evaluation and testing of equipment and display formats together with methods for viewing, reproducing, and retrieving microfilm data. Potential improvements and savings through the use of automated microfilm retrieval systems can be applied to many areas of the Institution.

To support these areas of effort, the requirements are a mathematician, a computer specialist, and an operations control clerk (\$45,000) with support funds (\$13,000).

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF SMITHSONIAN AND NATIONAL MUSEUM PROGRAMS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>9</u> | <u>0</u> | <u>9</u> |
| 11 Pers Comp | \$ 99 | \$ 3 | \$102 |
| 12 Pers Benefits | 8 | | 8 |
| 21 Travel..... | 8 | | 8 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 1 | | 1 |
| 24 Printing | | | |
| 25 Other Services | 180 | | 180 |
| 26 Supplies & Materials.. | 1 | | 1 |
| 31 Equipment | 15 | | 15 |
| 41 Grants..... | <u> </u> | <u> </u> | <u> </u> |
| TOTAL | <u>\$ 312</u> | <u>\$ 3</u> | <u>\$315</u> |

Analysis of Increase

Pay Increase..... 3
Program.....

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

No program fund increase is requested for FY 1972.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OFFICE OF SMITHSONIAN AND NATIONAL MUSEUM PROGRAMS

| | | |
|------------------------|-----------|-----------|
| 1971 Actual | \$200,000 | |
| 1972 Appropriation ... | \$310,000 | <u>1/</u> |
| 1973 Estimate | \$315,000 | |

The Office of Smithsonian and National Museum Programs provides program planning and review of the Smithsonian Institution's museum and exhibition activities with special emphasis on developing experimental and educational exhibits, surveying visitor reaction to the Institution's services, and providing advice and technical assistance to other museums. It works cooperative with museum professionals and their associations and organizations to increase the effectiveness of museums in the performance of their scholarly and public education functions. The Office of the Registrar, the Conservation Analytical Laboratory, and the Office of Exhibits are under the general administration of this Office.

No program fund increase is sought for FY 1973 for the operations of this Office. An amount of \$3,000 is requested for necessary pay purposes.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

OFFICE OF EXHIBITS

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>159</u> | <u>0</u> | <u>159</u> |
| 11 Pers Comp | \$ 1905 | \$ 43 | \$ 1948 |
| 12 Pers Benefits | 161 | 3 | 164 |
| 21 Travel | 10 | | 10 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 64 | | 64 |
| 25 Other Services | 130 | | 130 |
| 26 Supplies & Materials .. | 160 | | 160 |
| 31 Equipment | 50 | | 50 |
| 41 Grants | | | |
| TOTAL | \$ <u>2480</u> | \$ <u>46</u> | \$ <u>2526</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 46 |
| Program | |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Maintenance of Current Exhibits Program. No program increase is sought for FY 1973 for the Office of Exhibits as such. Its base resources are largely absorbed by the maintenance and upgrading of existing exhibits, the design of new permanent exhibits, and a program of changing special exhibits. A request for new nonrecurring funds for the construction and installation of major permanent exhibitions is in the special programs section of the budget request.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

OFFICE OF EXHIBITS

| | |
|-------------------------|-----------------------|
| 1971 Actual | \$2,412,000 |
| 1972 Appropriation..... | \$2,439,000 <u>1/</u> |
| 1973 Estimate..... | \$2,526,000 |

The Office of Exhibits is a key unit in the process of communicating concepts, ideas and information that reside in the vast National Collections. It works in close collaboration with the scientists, curators and historians in developing, designing and producing exhibits for the millions of people a year who visit the Smithsonian museums. Last year well over 200 projects were completed. Since its inception in 1955, the Office has produced over 3,700 permanent exhibit units primarily in the National Museum of History and Technology and the National Museum of Natural History, and has produced hundreds of special exhibits in art, history, and science. The Office is visited by hundreds of museum professionals who come to study methods and procedures and to be trained in the many sophisticated exhibits techniques, some of which were initiated and developed by the Exhibits Office. Among these unique techniques are freezedry taxidermy, plastic reproductions and modelmaking executed to a high degree of excellence.

The Office of Exhibits has an audio-visual and film unit producing material to augment and supplement the exhibits adding new depth and understanding and realism to what the visitor experiences. New approaches and techniques are being constantly studied, developed and incorporated into the exhibits to increase their value and receptiveness to the museum visitor. Selected exhibits are being surveyed and studied in collaboration with our visitors to determine their effectiveness and to learn more about the process of communicating ideas.

No program fund increase is being sought for FY 1973 for the Office of Exhibits. The base appropriation is largely absorbed by maintenance and upgrading of existing exhibits, design of new exhibits, and a modest program of changing special exhibits. New permanent exhibits, space for which exists in present Smithsonian museums, are being requested in the special programs section of this budget request. An increase of \$46,000 is requested for necessary pay for the Office of Exhibits staff.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
SUPPLY DIVISION

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>21</u> | <u>0</u> | <u>21</u> |
| 11 Pers Comp | \$ 242 | \$ 5 | \$ 247 |
| 12 Pers Benefits | 20 | 1 | 21 |
| 21 Travel..... | | | |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 8 | 1 | 9 |
| 24 Printing | | | |
| 25 Other Services | 6 | 2 | 8 |
| 26 Supplies & Materials.. | 86 | 16 | 102 |
| 31 Equipment | 2 | 1 | 3 |
| 41 Grants..... | | | |
| TOTAL | <u>\$ 364</u> | <u>\$ 26</u> | <u>\$ 390</u> |

Analysis of Increase

| | |
|-------------------|----|
| Pay Increase..... | 6 |
| Program..... | 20 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Stockroom Operations (\$20,000). The growth in research, exhibit, and educational programs has increased demands for stockroom supplies. These commonly used items are centrally bought, stocked, and issued for economy and efficiency. Reserves of many needed items have been depleted, however, and prices continue to rise. An additional \$20,000 are required for stockroom supplies, equipment, and office machine repair services.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

SUPPLY DIVISION

| | | |
|--------------------------|-----------|-----------|
| 1971 Actual | \$330,000 | |
| 1972 Appropriation | \$359,000 | <u>1/</u> |
| 1973 Estimate | \$390,000 | |

The Supply Division procures supplies, materials, contractual services, and equipment for research, curatorial, exhibition preparation, and other Smithsonian activities. It stocks and issues office, laboratory, and other supplies required in daily management operations. It operates a property management program, obtaining excess property in lieu of new procurement wherever possible. The Division maintains property records and takes periodic inventories to insure adequate control and utilization of equipment items.

An increase of \$20,000 is required to maintain operations at adequate levels to provide services Institution-wide. In addition, \$6,000 are requested for necessary pay.

Need for Increase

The growth in research, exhibit, and educational programs has increased demands for stockroom supplies. In FY 1973 services will have to be extended to meet the additional requirements of the recently opened Renwick Gallery, and the new Hirshhorn Museum. For economy and efficiency of purchasing, general supply items are bought centrally and stocked by the Division for issue. The Division has had to reduce its expenditures for supplies in order to absorb part of higher pay costs. About \$102,000 are available in FY 1972 for other than personnel costs, and are used to purchase general office supplies and services. Because of limited support funds, the Division has been unable to conduct an orderly planned procurement and stocking program. It has been forced to buy often in small lots, resulting in less economical procurement. To save funds, the inventory has been purged of slow-moving items and items used by only one or a few units. The reserves of many items have been reduced to dangerous levels. Stock prices have been rising. An addition of \$20,000 is requested for stockroom supplies, equipment, and office machine repair services.

The Division's workload of purchase orders, contracts, imprest fund uses and other transactions associated with operating funds, foreign currency matters, and construction projects continues to increase. This increase is the result of general expansion including the assignment of procurements for the National Zoological Park (which heretofore have been processed by NZP personnel). Through continuing improvement in methods and techniques, productivity will continue to increase and as a result it is anticipated that the procurement workload will not outpace available manpower in Fiscal Year 1973. There is also the problem of adequate control of receiving and prompt delivery services to additional building facilities (for instance, the Renwick Gallery and the Hirshhorn Museum). To provide for the aforementioned expansion and increased responsibility, it is planned to make temporary reassignments within the Division as required to meet the most urgent needs.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
MANAGEMENT ANALYSIS OFFICE

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | <u>10</u> | <u>0</u> | <u>10</u> |
| 11 Pers Comp | \$153 | \$4 | \$157 |
| 12 Pers Benefits | 13 | | 13 |
| 21 Travel..... | | | |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | | | |
| 24 Printing | 8 | | 8 |
| 25 Other Services | | | |
| 26 Supplies & Materials .. | | | |
| 31 Equipment | | | |
| 41 Grants..... | | | |
| | <u> </u> | <u> </u> | <u> </u> |
| TOTAL | <u>\$174</u> | <u>\$4</u> | <u>\$178</u> |

Analysis of Increase

| | |
|-------------------|---|
| Pay Increase..... | 4 |
| Program..... | |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

No program increase is being sought for FY 1973.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
MANAGEMENT ANALYSIS OFFICE

| | |
|-------------------------|---------------------|
| 1971 Actual | \$148,000 |
| 1972 Appropriation..... | \$171,000 <u>1/</u> |
| 1973 Estimate | \$178,000 |

The Management Analysis Office, under the direction of the Director of Support Activities, provides management analysis and is responsible for developing, coordinating, and maintaining a program to assist in the continuing development of sound business administration and management improvement programs within the Smithsonian Institution.

This unit, formerly called the Administrative Systems Division, assists members of the Executive Committee and other managers in the development and evaluation of more efficient and economical ways to carry out their missions. The unit provides management advisory services, makes studies and special surveys, develops organizational, functional, staffing and flow charts, procedural manuals, and maintains administrative issuances and forms management programs.

No increases are being requested for this activity except necessary pay (\$4,000).

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
DUPLICATING SECTION

| No. of Perm Pos | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|----------------------------|-----------------------|-------------------------------|---------------------------|
| | <u>7</u> | <u>1</u> | <u>8</u> |
| 11 Pers Comp | \$ 67 | \$ 19 | \$ 86 |
| 12 Pers Benefits | 6 | 2 | 8 |
| 21 Travel | | | |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 8 | | 8 |
| 24 Printing | | | |
| 25 Other Services | 4 | | 4 |
| 26 Supplies & Materials .. | 4 | 9 | 13 |
| 31 Equipment | | | |
| 41 Grants | | | |
| TOTAL | <u>\$ 89</u> | <u>\$ 30</u> | <u>\$119</u> |

Analysis of Increase

| | |
|--------------------|----|
| Pay Increase | 14 |
| Program | 16 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

Institutional Duplicating Services (1 position; \$16,000). The current workload requires a great deal of overtime work, and there is a deficiency of funds for supplies and materials. One additional multilith operator (\$7,000) and support funds are requested (\$9,000).

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
DUPLICATING SECTION

| | |
|-------------------------|---------------------|
| 1971 Actual | \$100,000 |
| 1972 Appropriation..... | \$ 87,000 <u>1/</u> |
| 1973 Estimate | \$119,000 |

The Duplicating Section is responsible for producing a wide variety of printed materials for the Smithsonian Institution. Included are administrative issuances, news releases and reports, and informational materials produced by the research, curatorial, and exhibits activities.

A program increase of \$16,000 is requested. One additional multilith operator (\$7,000) is requested, along with \$9,000 for supplies and materials. In addition, \$14,000 are requested for necessary pay.

Need for Increase

The current workload requires a great deal of overtime work. It is hoped that with an additional operator much of this will be eliminated. There is a current deficiency of funds for supplies and materials and it is essential that support capability be increased.

The service furnished by this unit is important to the overall program functioning of the Smithsonian Institution. The personnel are well qualified and do an excellent job. But staffing and funding must increase to keep abreast of growing Institutional requirements.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES

OTHER CENTRAL SUPPORT

| | <u>Base 1973*</u> | <u>Increase Requested</u> | <u>1973 Estimated</u> |
|---------------------------|-----------------------|-------------------------------|---------------------------|
| No. of Perm Pos | 13 | 0 | 13 |
| 11 Pers Comp | \$162 | \$4 | \$166 |
| 12 Pers Benefits | 14 | | 14 |
| 21 Travel..... | | | |
| 22 Trans of Things..... | | | |
| 23 Rent, Comm & Util ... | 4 | | 4 |
| 24 Printing | 3 | | 3 |
| 25 Other Services | 3 | | 3 |
| 26 Supplies & Materials.. | 1 | | 1 |
| 31 Equipment | 1 | | 1 |
| 41 Grants..... | | | |
| TOTAL | <u>\$188</u> | <u>\$4</u> | <u>\$192</u> |

Analysis of Increase

Pay Increase..... 4
 Program.....

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase (Program):

No program increase is being sought for FY 1973.

ADMINISTRATIVE AND CENTRAL SUPPORT ACTIVITIES
OTHER CENTRAL SUPPORT

| | |
|-------------------------|---------------------|
| 1971 Actual | \$184,000 |
| 1972 Appropriation..... | \$185,000 <u>1/</u> |
| 1973 Estimate..... | \$192,000 |

Included are the activities of the Equal Employment Opportunity Office, the special project writing and research efforts associated with producing the Joseph Henry Papers, the Travel Services Office, and the record keeping duties of the Secretary's Files. No increases are being sought for these activities other than necessary pay (\$4,000).

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

SMITHSONIAN INSTITUTION--"Salaries and Expenses," Fiscal Year 1973
BUILDINGS MANAGEMENT DEPARTMENT

| No. of Perm Pos | Base <u>1973*</u> | Increase <u>Requested</u> | 1973 <u>Estimated</u> |
|---------------------------|----------------------|------------------------------|--------------------------|
| | <u>793</u> | <u>84</u> | <u>877</u> |
| 11 Pers Comp | \$ 6,773 | \$ 735 | \$ 7,508 |
| 12 Pers Benefits | 575 | 63 | 638 |
| 21 Travel..... | 3 | | 3 |
| 22 Trans of Things | | | |
| 23 Rent, Comm & Util ... | 1,730 | 567 | 2,297 |
| 24 Printing | 6 | | 6 |
| 25 Other Services | 1,044 | 78 | 1,122 |
| 26 Supplies & Materials.. | 335 | 48 | 383 |
| 31 Equipment | 80 | 50 | 130 |
| 41 Grants..... | | | |
| TOTAL | <u>\$10,546</u> | <u>\$1,541</u> | <u>\$12,087</u> |

Analysis of Increase

| | |
|-------------------|-------|
| Pay Increase..... | 386 |
| Program..... | 1,155 |

*FY 1972 approp. adjusted by funds withheld in 1972 & restored to base for FY 1973

Specification of Increase(Program):

Hirshhorn Museum and Sculpture Garden (44 positions; \$410,000). Start-up Buildings Management services will be required in the latter part of FY 1973. An amount of \$118,000 is needed for a nucleus staff of 42 positions (14 man-years)--22 guards, 10 mechanics, and 12 custodians. Support requirements include utilities and communications (\$127,000), installation of fire detection and other systems and miscellaneous contract services (\$75,000), custodial supplies(\$40,000), and equipment (\$50,000).

Cooper-Hewitt Museum (9 positions; \$85,000). Services will be extended to this new national museum of design. Initial staffing is two guards, two custodians, and five mechanics (\$83,000) and funds for supplies and materials (\$2,000).

Utilities and Communications (\$250,000). Steadily rising rates and consumption of electricity, steam, telephone service, and other utilities cause a requirement for an additional \$250,000. About \$1,600,000 will be spent in FY 1972 and \$1,850,000 in the budget year.

Protection and Surveillance (21 positions; \$162,000). The present protection staff of 328 guards and supervisors cannot adequately protect over 3.6 million square feet of building space and additional grounds areas. The rising number of serious incidents and crimes (from 74 in FY 1970 and 129 in FY 1971 to 83 in the first half of FY 1972) plus additional new and planned exhibits require an additional 21 guards (\$155,000) and funds for their supplies and equipment (\$7,000).

Custodial and Building Services (10 positions; \$58,000). The application of cleaning standards has verified a severe shortage of custodial employees in the face of some 14 million visitors in 1971 and other growing workloads. There are now 266 buildings services employees including janitors, vehicle operators, and others. An additional 10 custodians are requested (\$56,000) with funds for uniforms, supplies, and materials (\$2,000).

Space Rental(\$190,000). New space is unavailable on the Mall to house authorized programs and their necessary support services. An estimated 28,000 square feet is needed. Such space is currently available in a convenient location. The amount of \$190,000 includes rent, relocation expenses, and minor tenant changes.

BUILDINGS MANAGEMENT DEPARTMENT

| | | |
|--------------------------|--------------|-----------|
| 1971 Actual | \$ 9,371,000 | |
| 1972 Appropriation | \$10,402,000 | <u>1/</u> |
| 1973 Estimate | \$12,087,000 | |

The Buildings Management Department provides essential services to the program units and helps them accomplish the Institution's goals. These responsibilities include the protection, operation, and maintenance of eight major buildings. These include the original Smithsonian Institution Building, the History and Technology Building, the Natural History Building, the Arts and Industries Building, the Fine Arts and Portrait Galleries Building (housing the National Portrait Gallery and the National Collection of Fine Arts), and the Renwick Gallery. The Department performs various combinations of these functions for nine other research, collection, special purpose, and support facilities, including the Chesapeake Bay Center for Environmental Studies, the Oceanographic Sorting Center, the Belmont Conference Center, and the Silver Hill Facility (which provides for the restoration and preservation activities of the National Air and Space Museum, and houses reference collections of aircraft, and other objects of science, technology, art, and natural history). Services will be extended to include two additional museums in FY 1973; i.e., the Joseph H. Hirshhorn Museum and Sculpture Garden and the Cooper Hewitt, a national museum of design. The total floor space of all the Smithsonian buildings is 3,656,000 square feet, and includes 18 different sites in the Washington Metropolitan Area, and one in New York City.

The Department provides utilities, and the servicing, repairing, and operating of refrigeration, heating, temperature and humidity control systems. It furnishes transportation and communications services and performs improvements and alterations to the buildings. Among the Department's responsibilities are safety, physical security, and disaster programs, as well as engineering, architectural services, construction management, space management, feasibility studies, and other professional services.

The FY 1973 requested increase is \$1,155,000 for increased provision of the above services, to meet price increases in various areas, and to begin services in new building space. In addition, \$386,000 are being sought for necessary pay increases of current employees.

Need for Increase

1. Joseph H. Hirshhorn Museum and Sculpture Garden (44 positions; \$410,000).

The Joseph H. Hirshhorn Museum and Sculpture Garden is scheduled for initial occupancy by the Smithsonian Institution in the latter part of FY 1973. The Buildings Management Department must service the building while the final construction work is being completed. Included in the final phase is the installation of special equipment and the operation and maintenance of heating, air-conditioning, and humidity control systems which must be activated prior to the opening of the Museum to the public.

1/ FY 1972 appropriation adjusted by funds lapsing in 1972.

During the FY 1973, an initial staff of 44 positions (14 man-years) will be required to give minimal protection and custodial services and provide mechanical operation and maintenance to the plant, on a 24-hour basis, seven days a week. Funds in the amount of \$118,000 are required to provide an initial staffing level of 22 guards (sufficient to man four or five posts around the clock), 10 mechanics, and 12 custodians. Funds are also requested for related expenses such as utilities and communications (\$127,000); the installation of fire detection and other systems, and miscellaneous contract services (\$75,000); custodial supplies and materials (\$40,000); and cleaning and buildings maintenance equipment items (\$50,000). This is a requested increase of \$410,000 for the initial protection, operation, and maintenance of this new Museum facility.

2. Cooper-Hewitt Museum (9 positions; \$85,000)

The Cooper-Hewitt, a national museum of design, is located in New York City. This building contains approximately 80,000 square feet of floor space. The Buildings Management Department will be required to extend its services to the Museum in FY 1973. This Department will give initial basic services to safeguard the building and its contents, to provide guard protection, custodial, and laboring services, and mechanical maintenance to the heating and ventilating system.

The nine additional positions required to provide a basic initial staffing level during FY 1973 are two guards, two custodial employees, and five mechanics (\$83,000); and a minimal amount of \$2,000 for supplies and materials. A total increase of \$85,000 is requested for the initial cost of providing services to this new museum activity.

3. Utilities and Communications (\$250,000).

In FY 1971, the Buildings Management Department spent \$1,600,000 for utilities and communications. Present information on higher unit costs and additional use indicates that this mandatory expense will increase somewhat in FY 1972 and rise to \$1,850,000 in FY 1973. The requested additional \$250,000 includes \$130,000 to fund the increase in the price of steam, which has increased approximately 40 percent since 1970. In fiscal 1970, the Department was paying \$1.55 per thousand pounds. The price for fiscal 1972 is \$2.09 per thousand pounds through November 1971. Beginning in December 1971 the price has increased to \$2.30 per thousand pounds.

Also included in this amount is \$115,000 to provide for the increased usage of electricity and steam, resulting in part from the addition of several second floor decks in the high ceiling areas of the Arts and Industries Building, which will provide additional offices, exhibit areas, and serve other public purposes. An additional \$5,000 is required to cover the Federal Telecommunications System intercity telephone services based on a projection by the General Services Administration.

4. Protection and Surveillance Shortages (21 positions; \$162,000).

The present protection staff consisting of 328 guards and supervisors provides physical security for the Smithsonian Institution buildings and grounds and for the National Collections, and other property. This staff is also responsible for the overall control and security of all persons using these facilities, including

general public, special visitors, staff, and visiting students and researchers. Approximately 14 million persons visited the Smithsonian last year.

Twenty-one additional guards (\$155,000) are requested to provide improved security for the exhibits in the new halls and galleries which have recently been opened or are planned to be opened to the public. Among them are the Hall of Musical Instruments, and the Numismatics, Graphic Arts, Photography, and Philately Halls in the new Communications area in the History and Technology Building, and the World of Living Things and Physical Geology exhibitions in the Natural History Building. The increase also is needed because other areas are inadequately covered and existing posts are too large for proper surveillance. Support funds of \$7,000 are also requested for supplies and materials and equipment for the additional guards. The following table shows the growth of the protection problem.

| <u>Offenses</u> | <u>FY 1970</u> | <u>FY 1971</u> | <u>FY 1972(thru Dec 31)</u> |
|-----------------------------|----------------|----------------|-----------------------------|
| Arson | 0 | 1 | 0 |
| Assault | 4 | 7 | 6 |
| Burglary | 3 | 11 | 0 |
| Fraud | 0 | 1 | 0 |
| Larceny | 47 | 69 | 49 |
| Narcotics incidents | 0 | 1 | 1 |
| Rape | 0 | 1 | 0 |
| Rape attempt | 0 | 1 | 1 |
| Robbery(including muggings) | 4 | 8 | 1 |
| Vandalism | 8 | 24 | 19 |
| Weapons carrying | 0 | 1 | 1 |
| Bomb or arson threats | 8 | 4 | 5 |
| | <u>74</u> | <u>129</u> | <u>83</u> |

5. Shortages in Custodial and Building Services (10 positions; \$58,000).

The present buildings services staff of 266, including janitors, telephone operators, vehicle operators, and supervisors provide building services for approximately 3,656,000 square feet of floor area, and perform regular custodial services in support of staff operations and visitor use of public spaces. These employees provide many special requested services in connection with public services and educational programs during regular hours and on weekends and holidays. They are also responsible for moving services, transporting museum objects, operating 55 elevators, providing pest-control services, grounds-keeping, and window cleaning.

Based on cleaning standards developed from the General Services Administration, private industry, and actual operating experience, the Smithsonian has established standards for servicing its museums and art galleries. Primary consideration has been placed on cleaning exhibit and public areas which comprise about 60 percent of the total net floor area. Work frequency rates are considerably higher in these areas because of the millions of people crowding through the buildings each year, and special care must be exercised in performing work because of the presence of valuable museum objects and extensive special finishes in gallery spaces.

The application of the cleaning standards in the Smithsonian buildings has verified a severe shortage of custodial employees. As the first step forward correcting this deficiency, ten additional janitors are requested to help provide adequate cleaning (\$56,000). Support funds of \$2,000 are also requested for uniforms, supplies, and materials for the additional janitors.

6. Space Rental (\$190,000).

New space is unavailable on the Mall for housing authorized programs and for their necessary support services.

In the past ten years employees working on the south side of the Mall have doubled while available office space has increased by no more than one third. In many cases exhibition space has of necessity been curtailed in order to preclude intolerable compaction of support staffs. In the Accounting area, for only one example, average worker space is greatly inadequate and precludes, in some cases, authorized staff expansion. Other essential support service functions are severely compressed. Business functions are fragmented in space ill-designed for the purpose. Space for expanded audit services must be gained. Remedial space needs exist in practically every support area.

In addition, the National Air and Space Museum must gain space to house any newly authorized staff increases required for the development of the new museum and its public programs. Space in the Arts and Industries Building for additional staff can only result from acquiring off-Mall space for functions which can be effectively relocated. Furthermore, restoration work must be initiated soon to ready the Arts and Industries Building for its increase in volume of visitors in 1976. This work would require that interim housing be acquired for a number of the building's present tenants.

By grouping in acquired rental space several closely associated administrative support groups which have until now been separated from one another (i.e., procurement, accounting, data processing systems), not only will new efficiencies of operation be made possible but other critical needs on the Mall can be accomplished with the space that would be recovered. The Museum of Natural History must gain added use of space for its required buildup of support programs. In the History and Technology Building the Conservation Analytical Lab would gain some space without which any substantial improvement in its services is impossible.

The only solution, since no Government controlled space is available in the required area, is the acquisition of suitable rental space. An estimated 28,000 square feet of additional office space is needed. Such space is presently available in a most convenient location including a computer housing available at no cost which would enable an inexpensive relocation of the computer center. Vehicular shuttle services will be provided to tie-in efficiently the new site with main offices and buildings on the Mall. Relocation costs are included as are minimal expenses for tenant changes. For these purposes \$190,000 is needed.

Tab B

SCIENCE INFORMATION EXCHANGE

SCIENCE INFORMATION EXCHANGE

| | |
|-------------------------|---|
| 1971 Appropriation..... | 0 ¹ / ₂ |
| 1972 Appropriation..... | \$1,300,000 ² / ₂ |
| 1973 Estimate..... | \$1,600,000 |

The Smithsonian Science Information Exchange (SSIE), in operation for 22 years, has been managed by the Smithsonian Institution since 1953 at the request of, and in behalf of, the federal agencies. As of July 1, 1971, the Smithsonian took over the funding of the Exchange for the development and maintenance of the data base by obtaining a direct appropriation. Prior to that time funds were provided by the National Science Foundation. In order to provide an efficient mechanism for the operation of the Exchange, it was incorporated as a non-profit Corporation in the District of Columbia in mid-June 1971. Incorporation was determined to be the most effective means of operating the Exchange in view of the complexities of charging users fees for services, the income from which makes up the balance of the funds required for overall operation of the Exchange, and for other reasons.

Management of the Exchange is accomplished by means of a Board of Directors and an Advisory Council. The latter is made up of representatives from federal agencies, industry, private foundations, fund raising agencies and universities, and represent those groups which are the prime users of SSIE's services. The Council is responsible for advising the Board of Directors on (a) the value and effectiveness of the Exchange, and (b) potential improvements that might be made in the Exchange to improve both input and output services. This Council in August 1971 reaffirmed the value and usefulness of SSIE.

The SSIE data bank annually receives and processes about 100,000 one-page records (2.5 to 3 million data elements) of research planned or in progress. About 80 percent of the input comes from federal agencies and 20 percent comes from private foundations, universities, state and local governments, industry, and some foreign sources. From this data bank, SSIE answers questions from the national science community about who is currently working on what project(s), where, when, and with whose support. The purpose of this national service is to help investigators and administrators avoid unwarranted duplication and unnecessary overlap of complex programs and to assist in more efficient planning and management of research projects and programs. It is one to three years from the time a project is planned and started until the time it is completed and reported. Efficient planning and management requires the earliest information about what others are doing.

For FY 1973 the Exchange is requesting an appropriation of \$1,600,000 (see Table I) to cover the cost of collecting and processing input into the data bank. Since December 1968, non-federal users have paid for retrieving, synthesizing, and packaging requested information. All users have paid for such services since July 1969. Table II shows income by type of use and user for fiscal years 1970 and 1971 as well as projections for FY 1972. Charges are reviewed regularly and adjusted as necessary. The Exchange was funded in FY 1971 at an annual level of \$1,680,000 by the National Science Foundation. The FY 1972 appropriation was approved at \$1,300,000 but \$1,600,000 is required in FY 1972 to cover the basic cost of collecting, processing, and

¹/Funded by contract with the National Science Foundation for the 10-month SIE fiscal year 1971 at an equivalent annual level of \$1,680,000.

²/Excludes \$300,000 proposed for supplemental.

storage of data. An additional \$300,000 is being sought in a supplemental appropriation in order for the Exchange to retain operational capability after May 1972. It will also fund a user study recommended by the General Accounting Office and the Office of Management and Budget on the future role of the Exchange in serving a changing science community.

Table III presents revenue, expenditure, and related data from FY 1966* up through and including projections for FY 1973. Comparison of the data for those two years reveals the following:

- Although staff size was reduced by 48 percent over the period, the rising cost of salaries and benefits result in a projected FY 1973 dollar outlay for personnel 8 percent greater than the actual personnel costs incurred in FY 1966.
- The staff reduction over a period of increasing input processing volume was partially offset by increasing technological sophistication, an increase reflected by the 40 percent rise in projected outlays for ADP equipment. The balance of the effect of the staff reduction was absorbed by an erosion of the quality of the SSIE data base.
- As a result of significant reductions in staff size and operating expenses other than those related to ADP equipment, costs projected for FY 1973 exceed those incurred in FY 1966 by only 8 percent.
- Funding at a level of \$1,600,000 for FY 1973 represents a decrease in federal support of 16 percent from the FY 1966 level.
- Revenues from SSIE sales are projected at \$425,000 for FY 1973, an increase of 32 percent over the current year. It is not reasonable to anticipate a greater rate of growth which might provide some funds to offset input costs.

No additional funding over the FY 1972 level is requested, assuming the supplemental appropriation for \$300,000 is approved. The amount of \$1,600,000 represents the minimal amount required to maintain data flow into the SSIE system and the future development of the data base manipulation techniques necessary to insure a system which will be responsive to the needs of SSIE users.

Maintenance of a national data bank of ongoing research activity requires a clearly identifiable level of funding support below which it becomes no longer practical to attempt to update the data base. This minimum level of operations is constrained by the necessity for technical skills in a variety of scientific disciplines to evaluate and process input data, the requirements for maintenance and update of the automated data entry, search and retrieval system, and certain minimum, fixed operating expenses. Where inadequate staff support is available for processing incoming material, significant delays occur in entering administrative and subject indexing data into the computer. Such data cannot be recovered and included in material sold to users, thus decreasing the value of the material provided. Considerable man-hours are required to work out and maintain effective input as government reorganization and turnover of personnel necessitate repeated contacts with agency representatives. SSIE will not be able to maintain the data bank without the supplemental \$300,000 requested in FY 1972, or without the \$1,600,000 requested in the FY 1973 budget.

*FY 1966 was selected as a base year in that it covered a period of peak activity, i. e. activity at a maximum level above that required for sustenance of basic operations.

SSIE will continue to develop improvements in both the input process, storage and search capabilities of the system. New computer system improvements are being considered and will be developed to provide for more efficient operation within the confines of the proposed budget.

With regard to increased input the Exchange notes two new sources. Input from state governments will be actively sought following pilot projects developed with the help of the Office of Intergovernmental Science Programs at NSF and the National League of Cities. These projects are both geared to improving input and use of SSIE by state and local governments. Contact has already been made with all state governments to familiarize them with SSIE and its services. In addition, knowing the importance of international research on such broad problems as environment and other urban problems, SSIE expects to further input of foreign research by reciprocal agreements with various foreign research information programs already established for ongoing research. Input from these programs is expected to result ultimately in an increase of some 15,000 projects. The ability to absorb these additional workloads will be dependent on improved efficiencies developed within the system and the availability of some supporting funds from the sponsoring agency.

About 65 percent of the output service goes to the federal agencies and an additional 20 percent to their grantees and contractors. Their requests range from retrieval of records (at one dollar each) to the preparation of printed annual catalogs of 1,500 pages (at \$25,000) describing the current national research effort, for example in water resources, marine sciences and environmental quality. Table IV shows input and output volume statistics for FY 1971. Table V lists catalogs and other publications prepared by the Exchange. The total revenue from all output products in FY 1972 is projected at \$322,000. More rapid increases in revenues from user charges have been difficult due to an almost constant federal R&D budget in spite of rising research costs. Under the circumstances early and adequate information is more essential than ever to efficient planning and management in research as well as in any other enterprise.

The SSIE data bank is the only one of its scope and size in the world that deals with information about current research activities applicable to planning and management purposes. It is the only source of coherent and comprehensive information that can quickly define and describe the broad multidisciplinary and multi-agency (government and private) programs of immediate national importance.

TABLE I
SMITHSONIAN SCIENCE INFORMATION EXCHANGE, INC.
PROPOSED BUDGET FY 1973

| | <u>TOTAL COST</u> | <u>DATA BANK COST*</u> (Federally Appropriated Funds) | <u>OUTPUT COST</u> (User Charges and Other Income) |
|--------------------------|--------------------|---|--|
| Personnel | \$1,470,642 | \$1,163,800 | \$306,842 |
| Salaries | 1,301,453 | 1,029,911 | 271,542 |
| Benefits | 169,189 | 133,889 | 35,300 |
| Contract Services | | | |
| Travel | 7,000 | 5,600 | 1,400 |
| Transportation of Things | 2,000 | 1,600 | 400 |
| Rents | | | |
| Telephone | 9,000 | 7,020 | 1,980 |
| IBM | 240,038 | 187,230 | 52,808 |
| Xerox | 9,000 | 7,200 | 1,800 |
| Building | 98,500 | 76,830 | 21,670 |
| Other | 8,000 | 6,400 | 1,600 |
| Printing | 4,000 | 3,200 | 800 |
| Other Services | | | |
| Equipment Maintenance | 4,000 | 3,120 | 880 |
| Other | 20,000 | 16,000 | 4,000 |
| Supplies | 15,000 | 12,000 | 3,000 |
| Acquisition of Capital | | | |
| Equipment | 12,820 | 10,000 | 2,820 |
| TOTAL | <u>\$1,900,000</u> | <u>\$1,500,000</u> | <u>\$400,000</u> |
| SI Services | 125,000 | 100,000 | 25,000 |
| GRAND TOTAL | <u>\$2,025,000</u> | <u>\$1,600,000</u> | <u>\$425,000</u> |

*Previous year (FY 1972) input costs of \$1,600,000 were met by \$1,300,000 in Federally Appropriated Funds and one-time funds of \$300,000 from a supplemental appropriation.

TABLE II

Income for SSIE Services
by Type of Use and User

Government Fiscal Years (1 July - 30 June)

| Fiscal Year | Months | Federal Users | | Non-Federal Users | | | Grand Total | |
|----------------|--------|-----------------|--------------------|-------------------|-----------------|--------------------|----------------|---------|
| | | User Charges | Contract Income | Total | User Charges | Contract Income | | Total |
| 1970 | 12 | 61,733 | 70,473 | 132,206 | 68,538 | -- | 68,538 | 200,744 |
| 1971 | 12 | 80,033 | 77,610 | 157,643 | 73,438 | -- | 73,438 | 231,081 |
| 1972 | 6* | 43,386 | 64,325 | 107,711 | 57,300 | 11,700 | 69,000 | 176,711 |
| 1972 | 12** | 92,095 | 104,325 | 196,420 | 101,880 | 23,700 | 125,580 | 322,000 |

*First 6 months of FY 1972

**Currently projected

TABLE III

SSIE Revenues & Expenditures
(1966 - 1972)

| SSIE Fiscal Year | Staff Size | | Staff Salaries and Benefits | | ADP Equipment Expense | | Other Operations Expense | |
|------------------|------------|-----------------------|-----------------------------|-----------------------|-----------------------|-----------------------|--------------------------|-----------------------|
| | Actual | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) |
| 1966 (Base Year) | 164 | -- | 1,364 | -- | 171 | -- | 331 | -- |
| 1967 | 155 | (6%) | 1,380 | 1% | 178 | 4% | 313 | (5%) |
| 1968 | 139 | (15%) | 1,427 | 5% | 217 | 27% | 331 | -0- |
| 1969 | 134 | (18%) | 1,330 | (2%) | 246 | 44% | 382 | 15% |
| 1970 | 88 | (46%) | 1,396 | 2% | 254 | 49% | 368 | 11% |
| 1971* | 87 | (47%) | 1,363 | -0- | 250 | 46% | 309 | (7%) |
| 1972** | 87 | (47%) | 1,439 | 5% | 258 | 51% | 301 | (9%) |
| 1973** | 85 | (48%) | 1,470 | 8% | 240 | 40% | 315 | (5%) |

| SSIE Fiscal Year | Total Cost of Operations | | Direct Federal Support | | SIE Revenues | | Input Processing Volume | |
|------------------|--------------------------|-----------------------|------------------------|-----------------------|----------------|-----------------------|-------------------------|-----------------------|
| | Actual (1,000) | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) | Actual (1,000) | % Increase (Decrease) |
| 1966 (Base Year) | 1,866 | -- | 1,902 | -- | | | 75,800 | -- |
| 1967 | 1,871 | -0- | 1,850 | (3%) | | | 84,400 | 12% |
| 1968 | 1,976 | 6% | 2,000 | 5% | | | 95,700 | 26% |
| 1969 | 1,958 | 5% | 1,800 | (5%) | 173 | -- | 91,200 | 20% |
| 1970 | 2,018 | 8% | 1,707 | (10%) | 212 | --*** | 88,000 | 16% |
| 1971* | 1,921 | 3% | 1,680 | (12%) | 231 | 9% | 90,000 | 19% |
| 1972** | 1,922 | 3% | 1,300 | (32%) | 322 | 52% | 94,000 | 24% |
| 1973** | 2,025 | 8% | 1,600 | (16%) | 425 | 100% | 94,000 | 24% |

* 10 month fiscal year projected on a 12 month basis

** Projection based on current minimum requirements

*** 1970 was selected as a base year for comparison of revenues as cost recovery program covered only a portion of FY 1969

SERVICES PROVIDED BY THE SSIE IN FY 1971

| Type of Service - Input | Source and % of Total Input Documents into the Data Base | | Total Number of Projects Registered |
|--|---|-----------------------|--|
| | Federal | Non-Federal | |
| Input of research project resumes into data bank including scientific, administrative indexing. | 80% | 20% | 96,601 |
| Type of Service - Output | Number of Requests | Number of Requests | Total Income from Service |
| Searches on data base for scientific and technical information and by administrative information such as supporting agency, location of work, etc. | 790 | 990 | \$69,811 |
| Preparation of computer printouts and tables of data from information in SSIE data base. | 6 | 2 | \$1,351 |
| Large administrative and/or subject requests for which no standard price exists and which involve special handling. | 31 | 30 | \$55,547 |
| Requests for searches of data base in which all projects attributed to a given research investigator are retrieved. | 3,780 | 388 | \$8,445 |
| Subject searches of SSIE data base to retrieve information on ongoing research on a regularly scheduled basis (selective dissemination based on user profiles). | 97 | 109 | \$8,701 |
| Distribution of Notices of Research Project documents on a regular basis to selected agencies supporting research (almost always involves their own research program). | 33,041 | 0 | \$3,304 |

| Type of Service - Output | Number of Requests | Number of Requests | Total Income from Service |
|---|--------------------|--------------------|---------------------------|
| Retrieval of Notices of Research Project documents from data base by SSIE accession number or supporting agency contract or grant number. | 1,077 | 214 | \$1,358 |
| Subject or administrative searches of the archival files of SSIE data base. Covers the period 1949-1969. | 14 | 20 | \$4,954 |
| Contracts for Research Catalogs. | 6 | | \$77,610 |
| TOTALS | 38,842 | 1,753 | \$231,081 |

TABLE V

List of Catalogs and Other Publications Relating to Ongoing Research
Prepared by the Smithsonian Science Information Exchange

1. "Environmental Research Catalog" - FY 1971. Prepared for the Environmental Protection Agency, Washington, D.C., 1972 (In press).
2. "Water Resources Research Catalog". Prepared in 1965, 1966, 1967, 1968, 1969, 1970 (1971 in preparation) for Office of Water Resources Research, Department of the Interior. Superintendent of Documents, Government Printing Office, Washington, D.C.
3. "Water Resources Thesaurus". Prepared 1966 - revised 1971 for Office of Water Resources Research, Department of the Interior. Superintendent of Documents, Government Printing Office, Washington, D.C.
4. "Marine Research" - FY 1968. (Prepared for Executive Office of the President, National Council on Marine Resources and Engineering Development) Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402, 1970.
5. "Outdoor Recreation Research". Prepared in 1966, 1967, 1968, 1969, 1970 (Prepared for Bureau of Outdoor Recreation, Department of the Interior) Superintendent of Documents, Government Printing Office, Washington, D.C.
6. "Current Population Research 1966, 1967, 1968, 1969". (Prepared annually for National Institute of Child Health and Human Development, National Institutes of Health, HEW, Bethesda, Maryland 20014). Published by U. S. Department of Health, Education and Welfare.
7. "Recent Research in Public Administration - A Reference 1969". (Prepared for Office of Metropolitan Development, U. S. Department of Housing and Urban Development, Washington, D.C. 20410). Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402, 1969.
8. "Recent Research in Intergovernmental Relations 1968". (Prepared for Office of Metropolitan Development, U. S. Department of Housing and Urban Development, Washington, D.C. 20410). Government Printing Office, 1969.
9. "Recent Research in Planning 1968". (Prepared for Office of Governmental Relations and Planning Assistance, U. S. Department of Housing and Urban Development, Washington, D.C. 20410). Government Printing Office, 1969.
10. "Research on U. S. International Trade". (Prepared for Export Strategy Staff, U. S. Department of Commerce, Washington, D.C.). Government Printing Office, 1970.
11. "Neurological Disease and Blindness Catalog 1969". (Prepared for National Institute of Neurological Disease and Blindness, National Institutes of Health, HEW, Bethesda, Maryland 20014).

12. "Sustaining University Program, NASA". (Prepared in 1969 and 1970 for Office of University Affairs, National Aeronautics and Space Administration, Washington, D.C. 20546). Government Printing Office, 1970, 1971.
13. "Catalog of Federally Funded Housing and Building Research and Technology". (Prepared for Office of Urban Technology Research, U. S. Department of Housing and Urban Development, Washington, D.C. 20410). Superintendent of Documents, U. S. Government Printing Office, Washington, D.C., 1970.
14. "Food Distribution Research Projects in Progress 1969". Food Distribution Research Society, Hyattsville, Maryland, 1970.
15. "Dental Caries Research FY 1969". (Prepared for National Institute of Dental Research, National Institutes of Health, Department of Health, Education and Welfare, Washington, D.C.). Superintendent of Documents, U. S. Government Printing Office, Washington, D.C., 1971.
16. "Dental Research in U.S. and Canada". Prepared in 1970 (1971 in preparation) for National Institute of Dental Research, NIH, Bethesda, Maryland, 20014. Superintendent of Documents, U. S. Government Printing Office, Washington, D.C., 1971.
17. "Dental Health" - FY 1970. Prepared for Division of Dental Health, NIH, Bethesda, Maryland, 20014. Superintendent of Documents, U. S. Government Printing Office, Washington, D.C., 1971.
18. "Pesticides Research -- Water" - 1971. (In preparation) for Environmental Protection Agency, Washington, D.C.

Tab C

SPECIAL FOREIGN CURRENCY PROGRAM

SMITHSONIAN INSTITUTION
MUSEUM PROGRAMS AND RELATED RESEARCH
(SPECIAL FOREIGN CURRENCY PROGRAM)

| | | |
|--------------------|-------------|------------------------|
| 1971 Appropriation | \$2,500,000 | |
| 1972 Appropriation | \$3,500,000 | Equivalent in "Excess" |
| 1973 Estimate | \$6,000,000 | Foreign Currencies |

An appropriation of \$6,000,000 in foreign currencies determined by the Treasury Department to be in "excess" to the normal needs of the United States abroad is requested for Fiscal Year 1973. The appropriation will be used to continue a program of grants to United States institutions for field research in those countries where "excess" local currencies which have accumulated are available. The research will be performed in areas of Smithsonian Institution interest and competence according to the following general program areas:

Commitment of Funds by Program Area

| | <u>FY 1966 - 71</u> Cumulative <u>Commitments</u> | <u>FY 1972</u> Estimated <u>Commitments</u> | <u>FY 1973</u> Appropriation <u>Request</u> |
|--|---|---|---|
| Archeology and Related Disciplines ^{7,500,000} | \$ 7,563,357 | \$ 1,823,575 | \$ 2,220,807 |
| Systematic and En- vironmental Biology ^{4,900,000} | 4,905,044 | 1,399,940 | 2,993,090 |
| Astrophysics and Earth Sciences ^{727,391} | 727,391 | 192,485 | 497,103 |
| Museum Programs | 153,500 | 60,000 | 265,000 |
| Grant Administration | 61,690 | 24,000 | 24,000 |
| | <hr/> | <hr/> | <hr/> |
| | \$13,410,982 | \$3,500,000 | \$6,000,000 |

For the past two years, grants awarded to American institutions by the Program have been exceeding the annual appropriation. In FY 1970 there were program obligations of \$2,922,681 equivalent in "excess" foreign currencies against an appropriation of \$2,316,000; in FY 1971, obligations of \$3,100,365 against an appropriation of \$2,500,000. These commitments absorbed all "carry over" from previous years, and, by the end of FY 1970, and during the first half of FY 1971 some approved research had to be delayed and rescheduled in order to be funded.

Grants have benefitted or will benefit more than 200 institutions of higher learning in thirty-two states. Benefits include the participation

of pre- and post-doctoral research scholars, and the acquisition of unique study collections which benefit not only grantees but numerous additional specialized collaborating institutions in the United States.

The FY 1972 increased appropriation of \$3,500,000 should enable the program to meet its commitments during the current fiscal year. However, the development and expansion of regular programs, as well as the opening up of important new research possibilities, especially in India and Poland, have resulted in a rising demand for "excess" research monies which makes an increased appropriation in FY 1973 necessary.

A joint Indo-American Ecology Symposium held in February 1971, resulted in plans for a major program of "environmental assessment" studies to be carried out jointly by Indian and American scientists and institutions; the basic scientific data expected to be developed by this program will not only contribute to the solution of environmental problems in developing India but will add vital data on the environment of use to American scientists and institutions working on U.S. environmental problems.

Similarly, a high-level visit in the spring of 1971 by the Chairman of the Polish Committee for Science and Technology has opened important new possibilities for joint American-Polish research by which American scientists and institutions can take advantage of highly sophisticated Polish facilities and experience without the expenditure of hard research dollars to perform comparable research in this country.

These major new opportunities for research follow similar opportunities in Yugoslavia and Pakistan described in last year's appropriation request. The projection for continued collaboration between basic research institutions in fields of Smithsonian interest in all of these countries is expected to remain high for as long as "excess" currencies are available in spite of varying political factors at the national level. At the same time, the American institutions performing research in Israel under Smithsonian sponsorship are now phasing out the major effort, with many accomplishments which the Program has financed there in the past six years; Israel is expected to be removed from the Treasury's "excess" currency list on June 30, 1972; consequently, FY 1972 will be the last year in which the Program will commit funds there, but the funds formerly committed to Israel will be more than absorbed by the new opportunities opening up elsewhere.

In addition to the need for an increase brought about by these new opportunities, the increase in FY 1973 is essential to support continuing field studies in the Smithsonian's traditional disciplines of systematic and environmental biology and anthropology which today are recognized

as basic to an understanding of the problems of environmental quality and cultural change.

The increase is essential also to ensure support for new and on-going research which contributes to United States national programs under, for example, the International Biological Program, the International Decade of Ocean Exploration, the National Aeronautics and Space Administration, the National Academy of Sciences, the United States National Museum and the Department of Interior's cooperative programs abroad under the Endangered Species Conservation Act.

Finally, the increase is essential to permit, in some cases, multi-year obligation of funds for research in those "excess" currency countries, like Tunisia and Morocco, where the excess designation by the Treasury Department is subject to termination at any time because "excess" accounts are small. Failure to obligate funds for a reasonable number of years for projects in such countries could prematurely terminate worthy studies by United States institutions without receiving full value from funds already expended. The Smithsonian appropriation has never been adequate to permit obligation of funds for more than one year of research at a time. Ceylon, where multi-year research has been underway, was removed from the "excess" currency country list at the end of fiscal year 1970. The Institution was only able to provide for orderly completion of the research going on there by making multi-year obligations against monies originally committed for research in other countries. The Program will of course, continue to require annual Advisory Council review to determine satisfactory research progress of these and other multi-year studies prior to authorizing disbursement of each successive year's funds.

USE OF FOREIGN CURRENCIES SAVES HARD DOLLARS

Special Foreign Currency Program appropriations are an advantageous source of research monies. This is so because they are not new appropriations of tax dollars and because delay in the use of the "excess" accounts means continuing losses to the United States Treasury as these accounts lose value through inflation and devaluation. Moreover, these appropriations do not add significantly to the President's budget total because the Commodity Credit Corporation reduces its appropriation request by an amount equal to the amount of foreign currencies expended.

At the same time, Special Foreign Currency Program appropriations contribute to essential national research objectives abroad without contributing to a balance of payments deficit. Moreover, Smithsonian Foreign Currency grants frequently serve as dollar-saving supplements to the dollar grants of both public and private agencies like the National Endowment for the Humanities, the National Science Foundation, the National Institutes of Health, the National Aeronautics and Space Administration, the World Wildlife Fund, the National Geographic Society, the John D. Rockefeller III Fund and the Wenner-Gren Foundation. In such cases, the foreign currency grants cover costs in the host country; the dollar grants are expended in the United States for equipment not available in "excess" currency countries, for American salaries, laboratory fees and the like.

OUTSTANDING ACHIEVEMENTS OF RESEARCH SUPPORTED BY SMITHSONIAN FOREIGN CURRENCY GRANTS

The following are examples of some of the outstanding results achieved by American scientists and institutions working under grants from the Program:

1. Smithsonian - Yale Arbovirus Laboratory collaboration has demonstrated that contrary to previous scientific opinion, migrating birds can transport infective viruses between continents. Some of these viruses, which can also cause fevers in man, are very serious health problems in temperate zones. Such fevers as West Nile, Kemerovo and Sindbis have been identified in migrating birds captured by Smithsonian field teams in Egypt.
2. Yale University students of fossil remains of man's earliest ancestors have found the skull and jaws of the common ancestor of all higher primates, including apes and man. This creature lived about 28,000,000 years ago. This discovery is considered the most important find in the last fifty years, bearing on man's evolution and on that of the apes.
3. The Smithsonian Astrophysical Observatory has, in collaboration with Tel Aviv University in Israel, successfully demonstrated that the basic principles and techniques emerging from the study of atomic particles are also applicable to the heretofore unexplained motions of groups of stars and of galaxies, opening important new fields for study of man's universe.
4. The Hebrew Union College, Cincinnati, Ohio excavation at Gezer, Israel serves as a principal field training ground for American biblical scholars and archeologists. This city was given by Pharaoh Shishak as a dowry to his daughter who became King Solomon's queen. These excavations have furnished conclusive proof of the city's destruction by Nebuchadnezzar.

5. Smithsonian studies in collaboration with Hebrew University in Jerusalem of the movement of marine life through the man-made, sea-level Suez Canal show that the majority of commercially valuable fish taken in the Eastern Mediterranean originated in Red Sea. These studies have saved the United States thousands of hard research dollars because one result is a tested model for studies being prepared by the National Academy of Sciences in connection with a possible sea-level canal at Panama. Taken together with studies of the movement of marine-life, particularly predators, through the Erie and Welland Canals into Lake Erie, the Suez Canal studies provide dramatic evidence of the consequences of man's modification of his environment.

6. The University of Pennsylvania museum, by applying modern computer methods to the scattered stones of the Egyptian Temple of Akhnaten, dismantled in antiquity, has reconstructed for modern eyes the facade of this historic temple. This project has been given extensive publicity by publications such as Life, the National Geographic, the New York Times, and the Washington Star, and a definitive book on the project will soon be published.

LIST OF PROJECTS

As in past years, a list of the illustrative projects of American institutions in many states being supported by the Special Foreign Currency Program, being developed in anticipation of such support, or considered worthy of being developed, has been prepared in support of this FY-73 appropriation request. In addition to the information usually included about each project--grantee institution, project title, amount of "excess" funds committed or to be committed to the project--a more extended explanation of what each project entails has been included this year. Owing to the increased length of the resulting document, this list of projects is being submitted separately as supplement to the Budget Justifications for Fiscal Year 1973.

This list of illustrative projects represents the Institution's selection of possible projects which appear most promising for successful development and implementation during Fiscal Year 1973. It should be noted, however, that actual implementation of these projects, and the distribution among disciplines and countries^{1/} of "excess" currencies appropriated will be contingent upon review and approval on competitive scientific merit by the Smithsonian's national scientific advisory councils; review and approval as not contrary to U.S. national interest by the Department of State and U.S. embassies abroad; review and approval of each project by the appropriate agency of the host country; and conclusion, where required, of a satisfactory agreement between the American grantee of the Smithsonian and an appropriate collaborating institution in the host country.

^{1/} See country distribution chart on page 3 of Special Foreign Currency Program Project List in budget justification supplement.

Tab D

CONSTRUCTION

SMITHSONIAN INSTITUTION CURRENT BUILDING PROGRAM

| <u>Project</u> | <u>Est. Total Cost</u> | <u>Appropriated to Date</u> | <u>Fiscal Year 1973 Request</u> |
|---|----------------------------|---------------------------------|-------------------------------------|
| Construction and Improvements, National Zoological Park | \$58,057,000 | \$ 8,903,000 | \$ 675,000 <u>1/</u> |
| Restoration and Renovation of Buildings | 14,279,000 | 8,873,000 | 5,409,000 <u>2/</u> |
| Construction: Joseph H. Hirshhorn Museum & Sculpture Garden | 15,000,000 | 15,000,000 <u>3/</u> | 0 |
| National Air & Space Museum | 41,900,000 | 1,900,000 | 40,000,000 |
| Bicentennial Park Planning | 275,000 | 0 | 275,000 |

1/ Building and facilities repair and planning cat exhibit.

2/ Arts and Industries Building air conditioning and renovation, \$3,500,000; storage building for National Air and Space Museum, \$125,000; Mt. Hopkins, Arizona, Observatory road and power improvements, \$220,000; National Portrait Gallery third floor renovation, \$250,000; Chesapeake Bay Center for Environmental Studies research facilities, \$50,000; Smithsonian Tropical Research Institute facility repairs, \$35,000; Library collection and work spaces, \$100,000; General building repairs and improvements, \$779,000; National Museum of History and Technology library addition planning, \$250,000; and Feasibility studies, \$100,000.

3/ Excludes \$200,000 for relocation of the Armed Forces Institute of Pathology and \$1,000,000 legally committed by Mr. Joseph H. Hirshhorn for construction.

CONSTRUCTION AND IMPROVEMENTS
NATIONAL ZOOLOGICAL PARK

1971 Appropriation.....\$200,000
1972 Appropriation.....\$200,000
1973 Estimate\$675,000

An appropriation of \$675,000 is requested for planning the new lion and tiger exhibits and for renovation and repairs of existing facilities at the National Zoological Park.

During the past year the architectural firm of Faulkner, Fryer and Vanderpool and landscape architect Lester Collins have been preparing a new and revised Master Plan for the entire Zoo as requested by the Commission of Fine Arts. This plan will emphasize the animal exhibits in a park-like setting, minimizing the architectural features, such as buildings. The latest techniques in animal exhibition, management, care, and education are being incorporated into this plan. At the same time, the eighty-year old Zoo continues to be used by millions of visitors from all over the country. Renovations and repairs must continue in order to keep the present zoo habitable for the animals and enjoyable to the visitors even while plans are being completed for a fully modernized Zoo.

The National Capital Planning Commission and the Fine Arts Commission have given preliminary approval to the Master Plan and it is believed that final approval will come in March 1972.

Funds are requested in the following categories:

1. Planning (\$275,000)

Funds in the amount of \$275,000 are requested to cover architectural engineering fees for construction design for the large cat exhibit.

This exhibit will consist of three large outdoor, all weather exhibits for lions and tigers separated from the public by water moats. The public will be able to view these animals without hinderance by bars or other visual obstructions in a well planned, attractive, and ecological type exhibit. There will be family groups of these magnificent popular cats for the education and enjoyment of the visitors. Three glass-fronted exhibit cages will show the animals during inclement weather or mothers with very young cubs. Ample off-exhibit space for animal dens will also be provided. Three small areas of educational and graphic materials on the exhibits will be available to the public. This exhibit will be located on the hill presently occupied by the 1890 Lion House. This old building will be removed to make way for the new modern exhibit. Plans for the new quarters for the smaller cats, such as the leopards, pumas, jaguars, etc., will be submitted and funds requested in the future.

2. Repairs and Renovations (\$400,000)

Funds in the amount of \$400,000 are requested to continue the program of renovation and repairs of existing facilities. This funding is required to keep the old part of the Zoo in use for the visiting public; for the care and comfort of the animals; and to keep the new buildings in good condition so that in the future the Zoo will not be faced with an almost overwhelming workload of repairs necessary to just keep the buildings open. Funds will be used to repair and replace some of the old free standing cages that house

some of the smaller animals; repair sidewalks; and purchase essential building equipment, such as sliding doors for the elephant house; and for major landscape projects. These renovation and repair projects are accomplished, keeping in mind the Master Plan for the renovation of the Zoo and the projected life expectancy in relation to eventual replacement. One of the major projects of the coming year will be the repair and/or replacement of sidewalks, as necessary, in the Zoo, such as those at the Bear Dens and the **Elephant House**.

some of the smaller animals; repair sidewalks; and purchase essential building equipment, such as sliding doors for the elephant house; and for major landscape projects. These renovation and repair projects are accomplished, keeping in mind the Master Plan for the renovation of the Zoo and the projected life expectancy in relation to eventual replacement. One of the major projects of the coming year will be the repair and/or replacement of sidewalks, as necessary, in the Zoo, such as those at the Bear Dens and the Elephant House.

RESTORATION AND RENOVATION OF BUILDINGS

| | | |
|-------------------------|-------------|------------------------|
| 1971 Appropriation..... | \$1,725,000 | <i>7/1/71 = 5014</i> |
| 1972 Appropriation..... | \$ 550,000 | <i>estimate = 5014</i> |
| 1973 Estimate..... | \$5,409,000 | <i>conf = 5014</i> |

An appropriation of \$5,409,000 is requested for the following projects:

| | | |
|--|----------------|-----------------|
| Arts and Industries Building air conditioning and renovation | \$3,500,000 | <i>3300 - ✓</i> |
| Storage building for National Air and Space Museum | 125,000 | |
| Mt. Hopkins, Arizona, Observatory road and power improvements | 220,000 | |
| National Portrait Gallery third floor renovation | 250,000 | |
| Chesapeake Bay Center for Environmental Studies research facilities | 50,000 | <i>0</i> |
| Smithsonian Tropical Research Institute facility repairs | 35,000 | |
| Library collection and work spaces | 100,000 | |
| General building repairs and improvements | 779,000 | |
| National Museum of History and Technology library addition planning | 250,000 | <i>150</i> |
| Feasibility studies (parking and National Museum of Natural History Research Center) | <u>100,000</u> | <i>0</i> |
| Total | \$5,409,000 | |

Arts and Industries Building

An appropriation of \$3,500,000 is requested for the major restoration and improvement of the Arts and Industries Building, for use for "The Year of the Centennial". This will be a major exhibition, recreating in many details the distinctive flavor of American life at the time of the Centennial Exposition of 1876. The Smithsonian will develop an exhibition, using many of the objects acquired after the Centennial Exposition of Philadelphia in 1876, to evoke the world of 1876, the atmosphere and style of our nation midway between its founding and its 200th birthday. It is estimated that four million persons would visit this building in the Bicentennial year.

The building, described as Modern Romanesque, was constructed in 1880. It has been declared a "Landmark of Importance" by the Joint Landmarks Committee of the National Capital Planning Commission and the Commission of Fine Arts. It is a one-story brick structure with 163,000 square feet of floor space. Partial second floor levels have been constructed

and a mezzanine borders the east, west, and south halls. Four additional second floor areas are now under construction, using funds appropriated in FY 1971. The four main halls are in the form of a cross with the rotunda located at the center. These main halls combined with the adjoining smaller exhibit spaces on the main floor provide 80,000 square feet of extremely adaptable space with the ceiling heights ranging from 14 feet under the galleries to 42 feet in the main halls.

The large open areas of the building, free of structural or architectural interferences, combined with high ceilings, arched openings, and the overall spaciousness, established the "Exposition" character of the structure. The decision of the Board of Regents of the Smithsonian to use the major portion of this building for exhibition purposes presents an unparalleled opportunity to display industrial, technological, architectural, scientific, and other large-scale exhibits which cannot be accommodated by other museum buildings. The location of this significant and unique building on the Mall adjacent to other buildings of the Smithsonian Institution provides a convenient and accessible facility for the visiting public.

The funds requested will be used for the installation of heating, ventilating, air conditioning, and humidity control systems for the entire building and for special equipment, fixtures, furnishings, floor coverings, decorative treatments, and lighting. The proper preservation and conservation of museum objects for the future cannot be satisfactorily accomplished except by the installation of the proposed systems. This long overdue improvement will also provide comfort for visitors and staff.

The rotunda and four main exhibition halls will be restored to the 1876 appearance; severely needed public restrooms will be installed; obsolete and potentially hazardous electrical and utilities systems will be replaced; the west entrance will be opened to give visitors access to the area south of the Smithsonian Institution Building; and related improvements will be accomplished to provide convenience, utility, and safety.

The cost estimate includes the following:

| <u>Estimated Renovation Costs</u> | <u>Amount</u> |
|---|----------------|
| Construction contracts and contingencies | \$2,694,000 |
| Reservations (special equipment, fixtures, furnishings, floor coverings, decorative treatments, and lighting, etc.) | 545,000 |
| <u>Estimated Services (GSA)</u> | |
| GSA design contract review | \$12,000 |
| Duplication, bids, etc. | 20,000 |
| Engineering and design completion | 75,000 |
| Construction supervision | <u>154,000</u> |
| | <u>261,000</u> |
| Total Renovation Costs | \$3,500,000 |

With this appropriation, the project can be started at the beginning of FY 1973 and the work can be completed in sufficient time for the installation of the special exhibitions for the Bicentennial Celebration in 1976.

Storage Building for the National Air and Space Museum

An amount of \$125,000 is requested for the construction of a 20,000 square-foot prefabricated steel storage building, to be located at the Silver Hill Facility, Silver Hill, Maryland, for the use of the National Air and Space Museum.

At the present time, there are 42 aircraft in outdoor storage at Silver Hill. Of this number, 26 are partially disassembled and crated in 97 large boxes. In addition, there are 50 large space artifacts, and approximately 100 aircraft engines also in outdoor storage. This type of storage cannot prevent further deterioration and will result in costly restoration if continued.

Although one additional building will not completely solve this unsatisfactory outdoor storage, it will provide space for these items in immediate need of adequate protection from the elements, and for those items requiring restoration for display in the new Air and Space Museum.

Mt. Hopkins Observatory Power and Road Improvements

An appropriation of \$220,000 is requested for correction of deficient power supply and road conditions at Mt. Hopkins, Arizona. As the Smithsonian Astrophysical Observatory's Mt. Hopkins facility develops, the demands on the electrical power system must be accommodated. For the protection and proper operation of the expensive and sophisticated electronic instrumentation now coming into use, the antiquated electrical power distribution systems must be improved.

In FY 1971, engineering studies were initiated to determine the appropriate power system for Mt. Hopkins. During FY 1972, a final system design will be completed, enabling installation to be undertaken in FY 1973. This cost, estimated by a local power company, is \$120,000.

For the safety of its staff, and others who must travel to and from the Mt. Hopkins facility, it is also necessary to improve the pioneer access road. Although usable during the initial construction of the Observatory, the road now presents a daily hazard to all users with its narrow hairpin turns, poor surface, and inadequate drainage.

The initial improvements to the Mt. Hopkins road will consist of replacement of gravel in badly worn areas, hard-topping of selected sections where dust or moisture is particularly troublesome, and widening and regrading of narrow turns and areas where drainage problems exist. These costs are estimated at \$100,000.

National Portrait Gallery Third Floor Renovation

An appropriation of \$250,000 is requested for the renovation of the Great Hall on the third floor of the Gallery in order that it can be used for the public display of expanding permanent collections, as well as for special loan exhibitions. It is not always possible or desirable to exhibit all portraits at the same time. A study-storage area is needed so that such portraits can be available to be conveniently viewed upon request at all times, and for study areas for visiting scholars and members of the Gallery

staff working on special research projects which will be expanding considerably, especially in connection with projected exhibitions and publications celebrating the Bicentennial of the American Revolution. This renovation will include overhead lighting above the skylight of the Great Hall to provide effective illumination for this historic interior space, now considerably darker than adjacent gallery areas, flexible museum lighting for exhibition purposes, and appropriate fixtures for study-storage and work areas.

In addition to making it possible for the National Portrait Gallery to make full use of this already extant space, these changes will enhance the public appreciation of one of the most striking interior spaces in the nation, a renowned example of the Nineteenth Century American Renaissance Style, once the largest room in the United States.

The National Portrait Gallery Commission is particularly anxious that this vast and magnificent area not be wasted when the public interest in this historic chamber and the Gallery's practical need for it are so apparent. The estimated costs are based on a study by a consultant who has been responsible for much of the most recent relighting of the Capitol, as well as for the new wing of the Museum of Fine Arts in Boston.

Chesapeake Bay Center for Environmental Studies (CBCES) Research Facilities

An appropriation of \$50,000 is requested to improve the facilities at the Chesapeake Bay Center for staff and visiting scientists.

In order to provide badly needed research space, CBCES must renovate the existing two-story, roofless barn. This renovation will include electrical, sewage, and water services; repairs to the building such as a new roof, stairways, interior partitions, resilient tile floor covering, lighting, doors and hardware, interior and exterior painting; and the installation of a heating and ventilating system. Special needs would consist of the installation of laboratory sinks, base and wall cabinets, and surfaces suitable for general laboratory usage. These costs are estimated at \$30,000.

It is also important to begin construction of a small dormitory facility to house visiting researchers. At the present time, this is accomplished in an inadequate manner by preempting space in the main office building ordinarily used for administrative activities. This facility would be a modular-type prefabricated building of approximately 1,400 square feet of floor space, on a preconstructed foundation with electrical, sewage, and water services. Special needs would consist of kitchen equipment, furniture, and furnishings suitable for a dormitory building. These costs are estimated at \$20,000.

Smithsonian Tropical Research Institute Facility Repairs

An appropriation of \$35,000 is requested for laboratory building and other facility repairs. For over 40 years a number of frame shelters have been maintained on Barro Colorado Island to provide work space and living facilities for scientists working on the Island. Despite modern methods of wood treatment, partial replacement of these facilities has been a continual need due to termite and ant infestation and deterioration in the humid tropical environment. Large scale use of insecticides in this area would be detrimental to research efforts performed on the Island.

Despite logistical and construction problems, future structures on Barro Colorado Island will incorporate masonry materials to the fullest extent practical. However, a minimal amount of \$30,000 is needed to repair the existing structures in order to continue their useful life. An additional \$5,000 is requested to repair the large marine research pier at the Naos Island installation.

Library Collection and Work Spaces

An appropriation of \$100,000 is requested to continue a program started in the FY 1971 budget to improve spaces in Smithsonian Institution buildings for the proper care and accessibility of library materials. In FY 1971 \$50,000 were appropriated for such improvements in the Natural History Building and in FY 1972 \$25,000 for the Lamont Street Building.

The FY 1973 funding would be used for three projects with approximate allocation as follows:

--\$60,000 for the double-decking, remodeling, and outfitting of reference and reading space in the Natural History Building to complete the project initiated with the FY 1971 appropriation. Double-decking of cataloging space will be accomplished with that appropriation. This is the Central Library as well as the library for the National Museum of Natural History.

--\$20,000 for improving space in the History and Technology Building to accommodate stacks and reading area.

--\$20,000 for converting space and providing built-in and other special equipment to maintain controlled conditions for valuable rare books.

These improvements would create additional research service areas for the use of Smithsonian staff as well as for better service to visiting researchers, students, and the general public.

General Building Repairs and Improvements

An appropriation of \$779,000 is requested for several Smithsonian buildings and facilities for improvements and repairs to prevent further deterioration, improve public safety, enhance appearance, and to facilitate the program operations in these buildings.

History and Technology Building

An appropriation of \$160,000 is requested to repair the roof of the building; reroute a defective eight-inch sanitary sewer line; repair granite stonework around the second floor terrace to correct a serious leak; and install storm windows to prevent further damage due to the presence of excessive condensation.

Natural History Building

An appropriation of \$90,000 is requested to repair and clean the interior and exterior stonework; repair the stone retaining wall (for safety purposes); install drinking fountains in public areas; repair and resurface an area which includes the floor surface from the east side ambulatory to the east door and loading docks; and paint exhibit and work spaces.

Smithsonian Institution Building

An appropriation of \$197,000 is requested for additional restoration and renovation of the Smithsonian Institution building and grounds. With funds previously appropriated, the first major interior restoration of this historically important and well-known building, originally constructed in 1855, has been completed. It was necessary, however, to forego many necessary planned improvements to reduce costs. Some of the improvements which were deferred include the installation of a humidification system; repairs to the exterior stonework; painting and waterproofing; window repairs and replacements; and the installation of fire detection and extinguishing systems.

Freer Gallery of Art

An appropriation of \$84,000 is requested for the following projects: renovate the sky-light areas of the exhibit halls; construct an X-ray equipment room for the conservation program; install handrails on the public stairs as a safety measure; install special security, fire detection and extinguishing systems; and install a lawn-sprinkler system for the landscaped areas to improve the appearance of the grounds.

Fine Arts and Portrait Galleries Building

Funds in the amount of \$184,000 are requested to complete several improvements originally included in the plans for remodeling the Fine Arts and Portrait Galleries Building, but were deleted due to rising costs.

Of this amount, \$50,000 is requested to renovate an area of approximately 20,000 square feet on the first floor of the building. It was believed that this space could be reserved for future expansion, but it is now urgently required for offices, collection, and work space. This renovation work includes heating, ventilating, air conditioning, lighting, flooring, repairs, and plastering and painting. An amount of \$22,000 is requested to restore point-up, and replace damaged or deteriorated interior and exterior marble and stonework.

There are also several requirements for improvement of the protection and mechanical operations of the building, including the installation of fire detection and extinguishing systems; installation of an emergency electric power generator and a standby booster pump for the domestic water system; partial replacement of the hot and cold water line risers not replaced during remodeling; and the replacement of heavily corroded aluminum fin coils throughout the building.

Correction of the following deficiencies will contribute to the safety of the visiting public and employees, as well as enhance the appearance of the building: rebuild the exterior stone steps at the 9th Street entrance to conform to the D.C. Building Code, and improve the inner court.

Smithsonian Silver Hill Facility

An appropriation of \$64,000 is requested for necessary improvements and expansion at the Smithsonian Silver Hill Facility. An additional 10,000 square feet of storage space is planned by the construction of a steel mezzanine. Required improvements include the installation of restrooms,

a sewage disposal system, and surface-water drainage systems. Also urgently needed is the renovation of Building 1A for an automotive repair shop to accommodate the repair of motor vehicles, as well as forklifts, material handling equipment, lawn equipment, and small electrical and gasoline powered machines.

National Museum of History and Technology Library Addition Planning

An amount of \$250,000 is requested for architectural plans for additional library space in the National Museum of History and Technology. The steady growth of the NMHT collections, and the intensification of the Museum's research programs, have made its present library facilities inadequate to the needs of its staff, and of the many visiting scholars it receives each year. It is evident that this problem will become more severe in the years ahead. The Institution must begin now to plan for its solution.

In addition to this urgent general need, the Institution wishes particularly to provide appropriate facilities for a great collection of rare books in the history of science and technology that may be offered as a gift. This collection, which was brought to our attention by the Office of Science and Technology, has been appraised conservatively at substantially more than a million dollars. Its acquisition by the National Museum of History and Technology would greatly enhance our already prominent and distinguished Department of Science and Technology, and would truly establish the Smithsonian as a national center for the history of science and technology.

The original architect of the History and Technology Building has designed a sixth-floor addition that would tastefully and economically meet both the overall requirements and the particular need for added library space. Based upon a GSA estimate, this much needed improvement could be constructed, equipped, and furnished for approximately \$4,000,000.

Feasibility Studies

An appropriation of \$100,000 is requested to provide for feasibility studies on parking and a National Museum of Natural History Research Center. The parking study is to determine alternatives and their costs to achieve an adequate solution to the parking problems faced by the many visitors to the Smithsonian Institution's museums, art galleries, and other facilities. The National Museum of Natural History Research Center funds are to conduct studies, and prepare a detailed report, on the physical plant requirements for the research programs of the National Museum of Natural History, and related programs of biological and environmental research and services of the Smithsonian Institution. The studies will include restatements of the programs, site exploration and development plans, investigation of systems, buildings and services to meet the program requirements, preliminary drawings and specifications for recommended construction, a phased program for construction and utilization and cost estimates for each portion of the program.

Parking Problems

It is of paramount importance to undertake effectively, and at the earliest opportunity, the problem of inadequate parking for visitors. Ever increasing numbers of visitors journey from afar to the Mall only to be in competition for the very limited parking spaces available. Without immediate action the situation can only get worse. Underground parking has been studied but remains

a distant prospect. Off-the-Mall, or fringe parking, with the assurance of suitable connecting transportation, may provide the only practicable interim solution.

This study would be initiated with the cooperation of the General Services Administration and the National Park Service. If the public is to be served, efforts must not be delayed.

National Museum of Natural History Research Center Planning

The research collections of the National Museum of Natural History and its staff of scientists engaged in research based on the collections had by 1967 outgrown the space designed for this program in the Natural History Building on the Mall (despite the two wings added to the original building during the early 1960's). The collection of scientific specimens have continued to grow, now numbering over 55 million. Public exhibition halls have been converted to provide space for the collections and personnel, and the collections have spread into stairwells and corridors. Working conditions are intolerably inadequate. The crowded conditions of the collections are wasteful of the time of the staff scientists and of the visiting scholars who use the collections for research, for identification, and for other practical services to biologists, ecologists, and resources planners in Federal, state, and private agencies throughout the country and the world.

By far the largest collections and programs involved are those of the systematic and taxonomic sciences, which are increasingly employed in the studies, training, and planning for a better environment. In a report to the National Science Foundation by the Conference of Directors of Systematic Collections, January 1971 (The Systematic Biology Collections of the United States: An Essential Resource), it is said,

"The health of the world ecosystem depends squarely on keeping as much diversity in the natural world as we possibly can. Because knowledge of the kinds of creatures in our world is fundamental to real understanding of their interaction, the great specimen collections are the very cornerstones to studying, comprehending, and living within the world ecosystem. This nation must recognize the critical character of this absolutely essential national resource--- and---support its maintenance and use."

In the past, elements of the Smithsonian systematics program have been separated and relocated but this has proved detrimental to the unified and cross-disciplinary functioning of the work. All experience points to the need to provide facilities to accommodate all of the interlocking elements of the program in one facility with room to develop the capability to meet the growing demands for national services. It is not possible or indeed desirable to provide additional space for these collections and programs on the Mall. The Mall facilities should be developed for maximum service to the accelerating public attendance in the exhibition buildings and for the educational programs of the Smithsonian.



In 1968, the Board of Regents of the Smithsonian Institution approved the submission to the Congress of proposed legislation to authorize the planning and construction of support and depository facilities. The bill introduced by Senators Anderson, Fulbright, and Scott was passed, with amendments, by the Senate on July 17, 1970. This legislation as passed by the Senate is in process of being reintroduced in the 92nd Congress.

CONSTRUCTION
NATIONAL AIR AND SPACE MUSEUM

| | |
|---------------------------|------------|
| 1971 Appropriation.....\$ | 0 |
| 1972 Appropriation.....\$ | 1,900,000 |
| 1973 Estimate.....\$ | 40,000,000 |

The Act of August 12, 1946, established the National Air Museum as a bureau of the Smithsonian Institution. The Congress included provisions for selecting a site for a National Air Museum building to be located in the Nation's Capital. By the Act of September 6, 1958, the Congress designated a site for a building to be on the Mall from Fourth Street to Seventh Street, Independence Avenue to Jefferson Drive. At present, no structure exists on this federal land.

In 1966, the Congress enacted legislation authorizing the construction of the National Air and Space Museum but deferred appropriations for construction until expenditures for the Vietnam conflict had shown a substantial reduction. Construction plans and specifications for the proposed museum building were completed and were accepted by the Commission of Fine Arts and the National Capital Planning Commission. The cost of the building, built to those plans and specifications, was estimated to be \$40 million dollars in 1965. Unfortunately due to the rising costs of labor and materials, this same building would now cost between \$60 million and \$70 million.

The space program, with its Mercury, Gemini, and Apollo flights, has caused a considerable increase in the public's interest in aeronautical and aerospace matters. During FY 1971, almost 3.5 million visitors were counted in the Arts and Industries Building and the Air and Space Building, both of which are used to house temporarily a very small portion of the collections and exhibits of the National Air and Space Museum. With the additional space available in the new building, the National Air and Space Museum will be able to use a wide range of the more than 200 aircraft and thousands of aerospace objects in the collections to interpret the historical and technological progress of aviation and aerospace science to the millions of visitors that will come to the Museum annually. It is estimated that 5 million visitors will come to this major new museum in its first year.

The Air and Space Museum already has in its collections such historically significant aircraft as the original Wright Brothers Flyer, Lindbergh's "Spirit of St. Louis," the NC-4 (the first to fly the Atlantic), the Bell X-1 (first to exceed the speed of sound), as well as Alan Shepard's Freedom 7, John Glenn's Friendship 7, and the Apollo 11 Command Module, Columbia, to name a few.

To demonstrate and exhibit technological progress, the Museum can choose from simple rotary engines built at the turn of the century to the huge Saturn F-1 engine which produces 1 1/2 million pounds of thrust. This collection of aeronautical and aerospace items, the finest in the world, must have a new Museum to be displayed properly to the public.

This building, in addition to being a showcase for historic machines, will also encompass a wide variety of exhibits concerned with the new science and technology of the Space age. The public will be able to see gathered together under one roof, for the first time, an explanation of how man has used a broad range of disciplines to achieve flight, and how he may extrapolate these into the future. The impact of flight upon our environment and our culture will

be investigated and exhibited to the public using the latest multi-media techniques. A planetarium chamber will be included, but in addition to viewing the conventional star show, the visitor will be able to "travel" through space to the surface of the moon or the planets. Another important adjunct will be the Historical Research Center, providing not only an aerospace library and film center, but facilities for research scholars as well. This center will make available the Museum's vast resources of photographs, drawings, technical manuals, films, and other documentary and archival materials.

During a Symposium on the National Air and Space Museum held on January 18, 1971, Senator Barry Goldwater, Dr. Wernher von Braun, Congressman Frank T. Bow, and Congressman James G. Fulton jointly proposed the following resolution be presented to the Board of Regents of the Smithsonian Institution:

- That the Smithsonian Institution should press for construction of the authorized National Air and Space Museum Building;
- That a study of changes in the original approved design should be undertaken immediately in order to determine the feasibility of lowering construction costs;
- That a firm date of July 4, 1976 should be established for the opening of the new museum building as a major element of the Smithsonian Institution's contribution to the commemoration of the Bicentennial of the American Revolution;
- That consideration be given to constructing a major underground parking facility beneath the Mall in order to alleviate the increasing problem of automobile parking in the vicinity of the Mall;
- That consideration of the joint venture by the National Park Service and private capital be explored. This action would complement the requirement for parking facilities as a significant factor in construction of the National Air and Space Museum.

In consideration of the rising costs of the building and the increased public interest in air and space activities, an appropriation of \$1,900,000 for planning and redesign, and for the specifying of programs, facilities, and installations was approved by the Congress for FY 1972. With the splendid cooperation of the General Services Administration, the firm of Hellmuth, Obata, and Kassabaum, Inc. has been selected and the redesign is underway using the latest design, construction, and exhibit techniques to lower the cost of the building to \$40 million without sacrificing the intent of the building to serve as a great center, on the Mall, for public education and enjoyment and scholarly research. This is the same architectural firm that performed the original design. Based on their familiarity with program needs, it is anticipated that the redesign will proceed quickly and that the award of a construction contract will be possible in mid- FY 1973. An appropriation of \$40 million is requested in FY 1973 to meet this construction schedule and permit the Museum to be opened by July 4, 1976.

CONSTRUCTION
BICENTENNIAL PARK PLANNING

| | | |
|------------------------|----|-----------|
| 1971 Appropriation.... | \$ | 0 |
| 1972 Appropriation.... | \$ | 0 |
| 1973 Estimate..... | | \$275,000 |

Approval of now-pending legislation (S. 2153 and H. R. 10311) would authorize establishment of Bicentennial Park at two federally-owned sites on the Potomac--Fort Foote, in Prince George's County, Maryland, and Jones Point, on the southern edge of the city of Alexandria, Virginia. Pending legislation also would authorize formal negotiations with the Department of the Interior for transfer of these sites to the Smithsonian Institution. The sites have been offered informally by the National Park Service for outdoor museum use.

Preliminary planning for Bicentennial Park initially will embrace site development to include a modest visitor center, parking and other necessary visitor facilities, a parade ground, a naval ordnance park, an outdoor theater, and a boat landing. Special attention will be given to exhibits having significance to the national observance of the 200th anniversary of the American Revolution, such as a continental encampment, palisaded fort, etc. Fort Foote Park now is relatively unimproved, lacking in every way facilities necessary for operating an outdoor museum where visitation may be expected to total thousands of persons every day during good weather months. Thus, initial planning must take into account total site development, bearing in mind, where necessary, landscaping to enhance the natural beauty of the site. All such planning must be preceded by a careful evaluation of the site to insure that site development moves hand-in-hand with highest ecological standards.

It is essential that the above facilities be constructed and staffed so as to be in full operation, open to the public, on July 1, 1976. Comprehensive, detailed planning should be sufficiently well advanced by the close of FY 1973 to insure adequate time for actual construction, staff hiring and training during FY 1974 and 1975 to meet the planned opening date. Site development, planning and the preparation of staffing plans, scripts, etc., will be accomplished in collaboration with competent outside consultants. Approximately \$1,500,000 will be required in both FY 1974 and FY 1975 for construction and staffing.

Tab E

APPENDIX

SMITHSONIAN INSTITUTION
"SALARIES AND EXPENSES"

REPORT ON THE NUMBER OF PERMANENT POSITIONS
BY ORGANIZATION UNIT

| | 1971 Actual | 1972 Estimate | 1973 Estimate | Increase 1973 Over 1972 |
|--|----------------|------------------|------------------|-------------------------------|
| National Museum of Nat. History | 271 | 335 | 373 | 38 |
| Smithsonian Astro. Observatory | 57 | 57 | 58 | 1 |
| Smithsonian Trop. Res. Inst. | 45 | 52 | 58 | 6 |
| Radiation Biology Laboratory | 40 | 46 | 48 | 2 |
| Off. of Environmental Sciences | 34 | 39 | 42 | 3 |
| National Air & Space Museum | 41 | 44 | 64 | 20 |
| Center for the Study of Man | 7 | 10 | 13 | 3 |
| Center for Short-Lived Phen. | 1 | 3 | 3 | 0 |
| Nat. Zoological Park | 247 | 286 | 286 | 0 |
| Nat. Museum of Hist. & Tech. | 158 | 157 | 163 | 6 |
| Nat. Collection of Fine Arts | 70 | 72 | 78 | 6 |
| Nat. Portrait Gallery | 38 | 39 | 46 | 7 |
| J. H. Hirshhorn Mus. & Sc. Gard. | 18 | 21 | 35 | 14 |
| Freer Gallery of Art | 7 | 8 | 14 | 6 |
| Archives of American Art | 0 | 11 | 12 | 1 |
| Nat. Armed Fcs. Mus. Adv. Bd. | 8 | 6 | 7 | 1 |
| Anacostia Neighbor. Museum | 11 | 15 | 18 | 3 |
| Off. of International Activities | 8 | 9 | 10 | 1 |
| International Exch. Service | 9 | 9 | 9 | 0 |
| Div. of Performing Arts | 7 | 7 | 10 | 3 |
| Off. of Public Affairs | 12 | 12 | 13 | 1 |
| Am. Revolution Bicentennial | 2 | 2 | 2 | 0 |
| Environmental Sciences Prog. | 3 | 8 | 8 | 0 |
| Major Exhibitions | 0 | 0 | 0 | 0 |
| Nat. Museum Act | 0 | 3 | 3 | 0 |
| Academic & Ed. Programs | 18 | 22 | 24 | 2 |
| Research Awards | 0 | 0 | 0 | 0 |
| Conservation Analytical Lab. | 11 | 13 | 16 | 3 |
| Smithsonian Archives | 6 | 6 | 8 | 2 |
| Smithsonian Inst. Libraries | 54 | 59 | 67 | 8 |
| Registrar | 30 | 31 | 32 | 1 |
| Photographic Services | 20 | 23 | 27 | 4 |
| Secretary | 38 | 40 | 47 | 7 |
| General Counsel | 9 | 9 | 10 | 1 |
| Treasurer | 31 | 33 | 35 | 2 |
| Personnel | 31 | 32 | 35 | 3 |
| Press | 25 | 25 | 26 | 1 |
| Inf. Services Division | 14 | 14 | 17 | 3 |
| Off. of Smithsonian & Nat. Museum Prog. | 9 | 9 | 9 | 0 |
| Exhibits | 165 | 159 | 159 | 0 |
| Supply | 21 | 21 | 21 | 0 |
| Management Analysis Off. | 9 | 10 | 10 | 0 |
| Duplicating | 7 | 7 | 8 | 1 |
| Other Central Support | 13 | 13 | 13 | 0 |
| Bldgs. Manage. Dept. | 768 | 793 | 877 | 84 |
| TOTAL | 2,373 | 2,570 | 2,814 | 244 |

SMITHSONIAN INSTITUTION
"Salaries and Expenses"

Report of Obligations by Objects
(In thousands of dollars)

| | <u>1971</u> <u>Actual</u> | <u>1972</u> <u>Estimate</u> | <u>1973</u> <u>Base</u> | <u>1973</u> <u>Estimate</u> | Increase <u>1973 over</u> <u>1973 Base</u> |
|---|------------------------------|--------------------------------|----------------------------|--------------------------------|--|
| 11 Personnel Compensation ... | \$25,380 | \$27,741 | \$27,996 | \$30,884 | \$2,888 |
| 12 Personnel Benefits | 2,064 | 2,359 | 2,388 | 2,625 | 237 |
| 21 Travel & Transportation of Persons..... | 397 | 596 | 587 | 679 | 92 |
| 22 Transportation of Things ... | 198 | 245 | 222 | 307 | 85 |
| 23 Rent, Communications, and Utilities | 2,564 | 2,917 | 2,916 | 3,560 | 644 |
| 24 Printing and Reproduction . | 502 | 645 | 673 | 839 | 166 |
| 25 Other Services..... | 2,996 | 4,609 | 4,926 | 5,965 | 1,039 |
| 26 Supplies and Materials..... | 1,191 | 1,807 | 1,723 | 2,239 | 516 |
| 31 Equipment | 937 | 1,801 | 1,864 | 4,540 | 2,676 |
| 41 Grants..... | <u>656</u> | <u>875</u> | <u>875</u> | <u>1,326</u> | <u>451</u> |
| Total Obligations | \$38,885 | \$43,595 | \$44,170 | \$52,964 | \$8,794 |
| Lapsing..... | <u>10</u> | <u>1,106</u> | _____ | _____ | _____ |
| TOTAL Appropriation | \$36,895 | \$44,701 | | \$52,964 | |

SMITHSONIAN VISITORS
(By fiscal year)

| Fiscal Year | Smithsonian Institution Building | Arts and Industries Building | Museum of Natural History | National Air and Space Building | Freer Gallery of Art | Museum of History and Technology | Fine Arts & Portrait Gallery | Total |
|-------------|----------------------------------|------------------------------|---------------------------|---------------------------------|----------------------|----------------------------------|------------------------------|--------------------------|
| | | | | | | | | |
| 1961 | 1,024,526 | 2,912,371 | 2,047,973 | 987,858 | 130,746 | (1) | (3) | 7,103,474 |
| 1962 | 1,222,112 | 3,471,050 | 2,113,053 | 1,986,319 | 130,597 | (1) | (3) | 8,923,131 |
| 1963 | 1,630,280 | 3,534,182 | 2,288,397 | 2,673,618 | 183,359 | (1) | (3) | 10,309,836 |
| 1964 | 1,311,061 | 2,457,243 | 2,512,306 | 1,854,186 | 168,625 | 2,509,774 ^{1/} | (3) | 10,813,195 ^{2/} |
| 1965 | 1,065,635 | 2,028,175 | 3,051,472 | 1,705,683 | 210,972 | 5,091,776 | (3) | 13,153,713 |
| 1966 | 870,010 | 1,746,715 | 2,988,006 | 1,494,922 | 222,089 | 4,829,112 | (3) | 12,150,854 |
| 1967 | 1,020,312 | 1,638,873 | 3,409,957 | 1,484,422 | 212,920 | 5,546,102 | (3) | 13,312,586 ^{4/} |
| 1968 | 847,176 | 1,344,622 | 3,257,957 | 1,123,698 | 169,533 | 4,750,023 | 30,888 | 11,523,897 ^{7/} |
| 1969 | 275,259 ^{5/} | 1,493,141 | 2,916,749 | 1,225,959 | 179,374 | 4,174,071 | 166,177 | 10,430,730 ^{7/} |
| 1970 | 5 [/] | 2,557,155 ^{6/} | 3,269,791 | 1,839,373 | 217,305 | 5,483,555 | 216,523 | 13,583,702 ^{8/} |
| 1971 | 681,255 | 1,985,732 | 3,456,755 | 1,337,445 | 190,425 | 5,955,128 | 194,468 | 13,801,208 |

1/ Museum of History and Technology opened January 1964.

2/ July-August 1964, certain Smithsonian Institution buildings were open 4:30 to 10 p.m. for the first time.

3/ National Collection of Fine Arts opened May 1968, and the National Portrait Gallery in October 1968.

4/ Reflects the significant decrease in visitors to the Nation's Capital in the first six months of CY 1968, due to unsettled local conditions.

5/ Building closed for renovation October 1968.

6/ Since the first display of the lunar sample in September 1969, visitors to this building have averaged approximately 270,000 per month

7/ Fiscal year 1969 visitor totals represent the effect of local conditions in late 1968 on visitor attendance.

During CY 1969, a total of 12,438,909 visitors came to the Smithsonian, an increase of 25 percent over CY 1968.

8/ Reflects a significant increase of 30 percent in visitors to the Smithsonian's Museums and Galleries.

9/ An additional 5,000,000 visits to the National Zoological Park annually and 50,000 to the Anacostia Museum are excluded from these totals.

SIGNIFICANT EXHIBITS, FISCAL YEAR 1971

Natural History Building

Japanese Armor
Indian Images
Moon Rock

Reptile Photo Exhibit
Flora of North America

History & Technology Building

Music Machines--American Style
Do It the Hard Way--Rube Goldberg
Electricity Hall Section

Ghandi Exhibit
Automat
Campbell Museum Collection

National Air & Space Museum

Apollo 14
NASM Art Exhibit

Robert McCall Exhibit

Arts & Industries Building

Hand of Man in America
Finnish Design

Woman

Anacostia Neighborhood Museum

Black Patriots of the American
Revolution
Lorton Reformatory: Beyond Time
Moments - A Photographic Exhibit

"...Toward Freedom"
D.C. Art Association - Third
Annual Exhibit

Performing Arts

Folk Festival on the Mall - Fourth Annual Event

Fine Arts and Portrait Gallery Building

Boris Anisfeldt
Black Artists of the 1930's and
1940's (Education)

William H. Johnson
Thomas Eakins
William Glackins Drawings

Financial Report

The total operating support for the Institution is composed of federally appropriated funds (including special foreign currency monies), research grant and contract awards, and private funds in the form of gifts and endowment fund income for both restricted and unrestricted purposes. With the exception of private unrestricted funds, the uses of these monies are limited to the specific purposes designated by the appropriation, grant, or gift, with the funds recorded separately in over 1,500 individual accounts.

Total funds for operations and for construction in fiscal years 1968-1971 are shown below (in thousands):

| | <i>FY 1968</i> | <i>FY 1969</i> | <i>FY 1970</i> | <i>FY 1971</i> |
|--|----------------|----------------|----------------|----------------|
| OPERATING FUNDS | | | | |
| Federal appropriations | | | | |
| Salaries and expenses | \$26,784 | \$29,150 | \$32,679 | \$36,895 |
| Special foreign currency program | 2,316 | 2,316 | 2,316 | 2,500 |
| Subtotal | 29,100 | 31,466 | 34,995 | 39,395 |
| Research grants and contracts | 11,584 | 11,624 | 10,825 | 9,312 |
| Nonfederal funds: | | | | |
| Gifts (excluding gifts to endowments) | 442 | 1,806 | 2,290 | 1,905 |
| Restricted purpose | 27 | 181 | 17 | 356 |
| Income from endowment and current funds invested | | | | |
| Restricted purpose | 870 | 924 | 999 | 1,115 |
| Unrestricted purpose | 368 | 441 | 281 | 330 |
| Miscellaneous | 190 | 476 | 503 | 406 |
| Total Operating Support | \$42,581 | \$46,918 | \$49,910 | \$52,819 |
| CONSTRUCTION FUNDS (Federal) | | | | |
| National Zoological Park | \$ 400 | \$ 300 | \$ 600 | \$ 200 |
| National Air and Space Museum | — | — | — | — |
| Joseph H. Hirshhorn Museum | 803 | 2,000 | 3,500 | 5,200 |
| Restoration and renovation of buildings | 1,125 | 400 | 525 | 1,725 |
| Total | \$ 2,328 | \$ 2,700 | \$ 4,625 | \$ 7,125 |

Federal Appropriated Funds

OPERATIONS (SALARIES AND EXPENSES).—As shown above, Congress has provided increases in appropriations to the Smithsonian in

recent years. The substantial inflation in this period, however, absorbed a large part of these increases. Throughout this period, also, there existed the need to provide for the natural growth of museum and scientific research collections, to meet established commitments toward improvement of the Institution's museums, and to participate more fully in growing research fields such as ecology and oceanography. Together these forces placed a severe strain upon operating budgets and accentuated existing shortages of support for our research scientists and museum directors. Fortunately, this situation has now been recognized and the increase in our appropriation for operations (salaries and expenses) for FY 1972 will make a good start toward alleviating these shortages in many areas.

The division of the Institution's federal appropriations (excluding special foreign currency program) for operating purposes in recent years among its broad areas of service has been as follows (in thousands):

| | <i>FY 1968</i> | <i>FY 1969</i> | <i>FY 1970</i> | <i>FY 1971</i> |
|----------------------|----------------|----------------|----------------|----------------|
| Science | \$ 9,566 | \$10,467 | \$11,761 | \$13,495 |
| History and Art | 4,045 | 4,287 | 5,081 | 5,878 |
| Public Service | 973 | 1,159 | 1,445 | 1,442 |
| Museum Programs | 3,128 | 3,260 | 3,592 | 3,744 |
| Administration | 2,155 | 2,526 | 2,733 | 3,051 |
| Building Maintenance | 6,917 | 7,451 | 8,067 | 9,285 |
| Total | \$26,784 | \$29,150 | \$32,679 | \$36,895 |

Additional detail for FY 1971 is shown in Table I on page 22.

SPECIAL FOREIGN CURRENCY PROGRAM.—These funds, representing a portion of the U.S. Government's holdings of blocked currencies in nine foreign nations, have been awarded to the Smithsonian annually since 1964 to administer a program of grants to more than fifty museums and universities in the United States for the purpose of carrying on research in the related foreign currency countries. The uses of these currencies during FY 1971 were as follows (in thousands):

| | <i>Systematic and Environmental</i> | | | <i>Attiophysics and Earth Sciences</i> | | <i>Museum Programs</i> | | <i>Grant Administration</i> | | <i>Total</i> |
|---------|-------------------------------------|----------------|---------------|--|------------------|------------------------|---------------------|-----------------------------|------------|--------------|
| | <i>Archaeology</i> | <i>Biology</i> | <i>Botany</i> | <i>Physics</i> | <i>Chemistry</i> | <i>Earth Sciences</i> | <i>Anthropology</i> | <i>History</i> | <i>Art</i> | |
| Ceylon | \$ 18.0 | \$ 431.7 | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ 449.7 |
| India | 492.4 | 287.9 | 11.5 | 8.7 | 1.7 | 802.2 | 1.2 | 803.7 | 2.9 | 48.4 |
| Israel | 521.1 | 281.4 | | | | | | | | |
| Morocco | 3.9 | 41.6 | | | | | | | | |

| | | | | | |
|-----------------|----------|----------|--------|--------|-----------|
| Pakistan..... | 47.1 | 42.4 | — | — | 89.5 |
| Poland..... | 39.8 | — | 3.0 | 1.1 | 43.9 |
| Tunisia..... | 61.7 | 15.2 | — | — | 76.9 |
| Egypt..... | 266.6 | 43.5 | 23.7 | — | 333.8 |
| Yugoslavia..... | 315.8 | 73.4 | — | 3.1 | 392.3 |
| Total..... | \$1766.4 | \$1217.1 | \$38.2 | \$12.9 | \$5.8 |
| | | | | | \$3040.4* |

* Includes unobligated balance from previous fiscal year.

These grants are audited by the Smithsonian internal auditing staff aided by foreign independent accountants in some cases, and also more recently with the assistance in foreign countries of the audit staff of the U.S. Department of Agriculture.

CONSTRUCTION.—An additional \$5,200,000 was appropriated in the fiscal year 1971 budget for the construction of the Joseph H. Hirshhorn Museum and Sculpture Garden. This made a total of \$11,303,000 appropriated for this project since the initial planning appropriation was received in fiscal year 1968. This left a final appropriation of \$3,697,000, the balance of the \$15,000,000 authorized by Congress for the project, to be obtained in the fiscal year 1972 appropriation. Construction is scheduled to be completed in the fall of 1972.

Of the \$1,725,000 of appropriations for restoration and renovation of buildings appropriated to the Institution in fiscal year 1971, \$774,000 was for the repair of fire damage suffered in the third floor of the National Museum of History and Technology in September 1970. An additional \$500,000 was for the necessary redecking of space in the Arts and Industries Building to provide additional office areas.

Research Grants, and Contracts

Total grants and contracts carried on by the Institution in each of the past years, by awarding agency, were as follows (in thousands):

| | FY 1968 | FY 1969 | FY 1970 | FY 1971 |
|--|----------|----------|----------|----------|
| Department of Health Education and Welfare | \$ | \$ 272 | \$ 325 | \$ 297 |
| Department of Defense | 1,334 | 1,667 | 1,086 | 843 |
| National Air and Space Agency..... | 7,294 | 7,265 | 6,561 | 4,930 |
| National Science Foundation..... | 2,355 | 2,099 | 2,246 | 2,028 |
| Other..... | 601 | 321 | 606 | 1,214 |
| Total..... | \$11,564 | \$11,624 | \$10,825 | \$ 9,312 |

As indicated in last year's annual report, cutbacks by NASA, especially for the satellite tracking program at our Smithsonian Astrophysical Observatory, caused a further reduction in grants and contracts awarded to the Institution in fiscal year 1971. Adjustments in expenditures and personnel at the Observatory have been carried out as a result.

Table I, shows the usage of grant and contract monies by various bureaus of the Institution. Over 95 percent goes for scientific research—notably to our Astrophysical Observatory, to anthropologists and other scientists in the National Museum of Natural History and for studies in the environmental sciences. Grants from the National Science Foundation were largely for the funding of the Science Information Exchange which has been operated by the Smithsonian since 1953. For the fiscal year 1972, funding responsibility has also been transferred to the Institution, to become a part of its federal appropriation request with a corresponding reduction in future NSF funding.

Private Funds

In addition to federal appropriations and awards of research grants and contracts the Institution benefits from private funds received in the form of gifts and as income from its endowment and other investment funds. Not including contributions to endowment funds (discussed below), a total of \$2,261,000 of gifts was received during fiscal year 1971, about the same level as in the previous year. Income from investments amounted to \$1,444,000. An additional \$106,000 was obtained from memberships, special fund-raising drives, and fees.

Following traditional practice, private fund accounts of the Institution are audited annually in their entirety by independent public accountants. Their report for fiscal year 1971, including comparative balance sheets and a statement of changes in balances in all the various funds, appears on pages 25-31. (Grant and contract monies received from federal agencies are audited annually by the Defense Contracts Audit Agency; audits of federally appropriated funds are conducted by the Institution's internal audit staff and from time to time by the General Accounting Office.)

UNRESTRICTED PRIVATE FUNDS.—Private funds are vital to the maintenance of the Institution, permitting it flexibility of operations, nonpolitical objectivity, and greater attraction for valuable national collections to benefit its millions of visitors. Unfortunately,

STATEMENT BY THE SECRETARY

its total sources of private funds in fiscal year 1971 provided only 8 percent of overall operating revenues, with federal appropriations accounting for a growing portion of total support.

It is important to note, furthermore, that these private funds are dedicated largely to restricted purposes. This was the case for 77 percent of our fiscal year 1971 investment income and, in recent years, nearly all of the gift monies. In fiscal year 1971, however, the latter included \$365,500 for unrestricted operating purposes; this was of immense value in aiding the Institution to approach a balance in its current unrestricted private funds operating budget despite the continued rise in costs of salaries, services, and supplies. The gap between income and expenditure was reduced to \$138,690, a notable improvement over previous years. Nevertheless, the loss of these unrestricted private funds during the year was disappointing. The balance of these funds was \$1,719,657 at 30 June 1971. This is below the desired level of working capital for the Institution; it must be rebuilt in future years by surpluses to be obtained by careful control of expenditures and by enlargement of our sources of income.

An examination of the present application of our private unrestricted funds is useful in understanding how this desired result may be achieved. Table 1 sets forth total Smithsonian income and disbursements—federal, nonfederal, and grant and contract monies—by bureaus, offices, and activities. In this table the revenues and expenses of our computer centers (which are run on a break-even basis) and of our revenue-producing "activities" have been netted out; only the net excess of disbursements is included in order to clarify their effect. From this table it may be seen that unrestricted funds are used in part to support new programs (Anacostia Museum, Chesapeake Bay Center), provide additional resources for certain established programs and supporting services (libraries, academic programs, Smithsonian Institution Press, performing arts), and to finance our revenue-producing "activities" until they can become fully self-supporting. Additionally, private unrestricted funds pay for administrative costs associated with these nonfederal expenditures, including the large amount of grants and contracts and the "activities" themselves—all of which are charged for a share of these administrative expenses in an effort to recover such expenses as fully as possible.

Results of the revenue-producing activities themselves in fiscal year 1971 were as follows (in thousands):

| | Total | Museum Shops | Press* | Maga-zine | Asso-ciations | Per-forming Arts | Other** |
|--|---------|--------------|---------|-----------|---------------|------------------|---------|
| Sales and Revenues..... | \$4,654 | \$1,020 | \$ 148 | \$2,412 | \$ 597 | \$ 142 | \$ 335 |
| Less Cost of Sales..... | 2,188 | 686 | 134 | 1,134 | 193 | — | 41 |
| Gross Income..... | 2,466 | 334 | 14 | 1,278 | 404 | 142 | 294 |
| Gifts..... | 52 | — | — | 6 | 46 | — | — |
| Total Income..... | 2,518 | 334 | 14 | 1,284 | 450 | 142 | 294 |
| Expenses..... | 2,763 | 327 | 150 | 1,393 | 410 | 200 | 283 |
| Income (loss) before charge for administrative costs | (245) | 7 | (136) | (109) | 40 | (58) | 11 |
| Less Administrative Costs | 289 | 87 | 23 | 100 | 31 | 20 | 28 |
| Net Income (loss)..... | \$(534) | \$(80) | \$(159) | \$(209) | \$ 9 | \$(78) | \$(17) |

* The privately funded activities of the Press as opposed to the federally supported publication of research papers.
 ** Includes Traveling Exhibitions, Belmont Conference Center, photo sales, and the "Commons" restaurant.

The *Smithsonian* magazine continued to gain acceptance and show excellent progress during this first full year of operation. Its loss, due in part to nonrecurring costs, was greatly reduced, and circulation at the fiscal year-end exceeded 250,000. Break-even results are expected in fiscal year 1972.

On the other hand, the continued loss (\$80,000) in our Museum Shops, although caused in large part by liquidation of large unsalable inventories acquired in previous years, was most disappointing. The need for great business attention to the Shops and other similar activities has become abundantly clear. Effective in July 1971, Mr. Harry R. Albers has been given this responsibility by his appointment as Business Manager, Office of the Treasurer.

Another major factor causing the imbalance in private unrestricted fund accounts was the substantial underrecovery of private fund administrative expenses. An intensive study of this problem has been completed and with the adoption of certain policy changes the loss from this source should be reduced. If this can be accomplished and if expected improvements in financial results of the magazine and shops are also achieved, the Institution should make a start in fiscal year 1972 toward the desired rebuilding of its current operating funds.

From a different angle, our year-old Development Office is

received from a large special endowment fund. In part these funds financed the purchase of 172 acres of land at this center in June 1971, but it is expected that an interested foundation will repurchase this land within the near future while continuing to dedicate it to the same purposes. A final three-year grant of \$259,000 to the Smithsonian-associated program of "Reading is Fundamental" assured successful continuation of this valuable venture. Numerous other contributions for important research, educational and museum projects included those for Anacostia Museum, the Fourth International Symposium, and the acquisition of additional collection items. A listing of individual donors is shown on pages 19-21.

In addition to gifts, endowment funds established for specific purposes provided \$1,114,000 of investment income and miscellaneous sources added another \$195,000 of restricted purpose income in fiscal year 1971. Of the investment income \$674,000 was for operation of the Freer Gallery, \$116,000 was dedicated to the Marine Center oceanography program referred to above, and the remaining \$324,000 was provided for a great variety of purposes designated by the donors.

Utilization of these gifts and restricted purpose investment income may not, of course, occur in the same year as the one in which they are received, with the result that year-end balances show considerable variations from year to year. In fiscal year 1971 land acquisition at the Chesapeake Bay Center required expenditure of \$288,000 of money received for this purpose in previous years and unusually large collection purchases by the Freer Gallery drew down its previously accrued investment income balance by \$180,000. These two items largely account for the decline in total restricted fund balances from \$2,241,000 as of 30 June 1970 to \$1,762,000 on 30 June 1971.

ENDOWMENT FUNDS.—The value of the Institution's endowment funds increased during the year, reflecting both additional gifts of \$1,677,000 and also general increases in values of securities to reach a total market value on 30 June 1971 of \$45,905,000 (\$42,632,000 of stocks and bonds, \$1,000,000 permanent loan to U.S. Treasury, \$2,176,000 real estate, and a \$97,000 note receivable). In addition, current fund investments on that date had a market value of \$2,727,000. The endowment fund gifts included a \$1,310,000 addition to the Oceanography Research Fund and a \$79,000 bequest for unrestricted uses.

Most of the Institution's endowment funds are handled in three separate investment accounts consisting of the Freer Fund

actively at work in conjunction with the newly organized National Associations program at building an active national group of Smithsonian friends who will assist in the raising of additional solely needed unrestricted private funds. At the same time the Office is soliciting contributions for a number of specific funding requirements of the Institution and is launching a program to make clear the need for future individual gifts and bequests. Additional unrestricted funds thus obtained could be constructively used to restore needed working capital, to provide equipment to outfit properly the Institution's photographic services division and Museum Shops (enabling the Institution to help itself by increasing revenues in these areas), to develop more rapidly its public education programs in new fields of audiovisual techniques, and to finance a great variety of research projects or collection acquisitions now stifled for lack of funds—to name but a few pressing requirements.

RESTRICTED PRIVATE FUNDS.—As indicated earlier, a total of \$1,905,000 of gifts for restricted operating purposes was received during fiscal year 1971. Major donations included \$276,000 for the Cooper-Hewitt Museum of Decorative Arts and Design in New York City, representing principally the payment of previous outstanding commitments toward reestablishment of this Museum. The Carnegie Corporation has agreed, subject to court review and certain terms and conditions, to donate the Carnegie Mansion as a site for this Museum. Strong measures are now needed to obtain the very substantial funds for rehabilitating the building for museum use and to provide future operating funds.

Continued progress was made in acquiring additional land at the Chesapeake Bay Center for Environmental Sciences and a new \$25,000 gift was received for that purpose during the year. To exercise a favorable option to acquire one of the properties, it was necessary, however, to obtain a bank loan of \$175,000 which it is hoped can be repaid within the near future from additional donations. Other acquisitions and proposals for additional grants are in process.

In another field, gifts totaling \$243,000 were contributed toward the important underwater research efforts centered at the Institution's new oceanographic center in Fort Pierce, Florida, at which will be based the *Johnson-Sea-Link* submarine and the *J. Seward Johnson* ocean-going submarine tender, contributed to the Institution by Mr. Edwin A. Link and Mr. J. Seward Johnson. These were in addition to the substantial income for this purpose

STATEMENT BY THE SECRETARY

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(\$18,805,000 market valuation of 30 June 1971), dedicated to providing operating income the Freer for Gallery of Art; Endowment Fund No. 3 (\$12,331,000), dedicated entirely to oceanographic research; and the Consolidated Fund (\$11,470,000), in which all other restricted and unrestricted endowment funds have for many years been pooled for investment purposes. These funds, as well as current account investment funds, are summarized in Table 2. A listing of the individual investments held in the various endowment funds may be obtained upon request to the Treasurer of the Institution.

Increasing attention has been given to the monitoring of these funds in the past two years with the result that the Board of Regents appointed in September 1970 a new Investment Policy Committee consisting of the Secretary (ex-officio), three Regents (Mr. William A. M. Burden, Chairman; Dr. Crawford H. Greenewalt; and Mr. James E. Webb) and four experienced investment executives (Messrs. Harold F. Linder, Donald Moriarty, Charles H. Mott, and William R. Salomon). After reviewing the investment problems of the Institution, the Board of Regents, on the recommendation of this Committee, has adopted a number of changes affecting our endowment funds. Effective 1 July 1971, three new investment management firms have been given the responsibility for investing different portions of the funds. Discretion has been granted to the managers to carry out this responsibility, subject to general policy guidance and prompt reporting requirements imposed by the Board.

A listing of individual funds included in our Consolidated Investment Fund and their related investment income in fiscal year 1971 is set forth in Table 3.

Donors to the Smithsonian

The Smithsonian Institution gratefully acknowledges gifts and bequests received during fiscal year 1971 from the following:

\$100,000 or more:

- Ford Foundation
- J. Seward Johnson
- Mrs. Marjorie Merriweather Post
- Atlantic Foundation
- Battelle-Memorial Institute
- Mrs. Mary Graham Bruce
- Carnegie Foundation
- Joseph P. Grace Foundation
- William H. Crocker
- William L. Elkins
- Daniel and Florence Guggenheim Foundation

\$10,000 or more:

- Mrs. Hingo Astor
- Mrs. W. Vincent Astor

\$1,000 or more—Continued

- Susan Morse Hillis Agency
- Interdisciplinary Communications Association
- International Business Machines Corporation
- Iran Foundation
- Junior League of Washington, D. C.
- J. D. R. 3rd Fund, Inc.
- J. M. Kaplan Fund, Inc.
- Charles F. Kettering Foundation
- Hoffman La Roche Foundation
- Miami Beach Tourist Authority
- Ambrose Monell Foundation
- National Foundation for the Arts and Humanities
- National Geographic Society
- State of New York
- Edward J. Noble Foundation
- Prospect Hill Foundation
- Rockefeller Brothers Fund
- Rockefeller Foundation
- Laurence S. Rockefeller
- Clara Louise Safford Estate
- San Diego Zoo
- The Scaife Family of Pittsburgh
- Hattie M. Strong Foundation
- Bertrand L. Taylor
- Wenner-Gren Foundation
- Xerox Corporation

\$1,000 or more:

- Amalgamated Meat Cutters and Butchers Workmen of North America
- American Conservation Association, Inc.
- American Council of Learned Societies
- American Federation of Information Processing Society
- American Philosophical Society
- Anonymous
- W. Andrew Archer
- Avco Corporation
- Bakery and Confectionery Union
- Barra Foundation
- Henry W. Bass
- Beal Foundation
- Clay Bedford

- Louis D. Beaumont Foundation
- David P. Becker
- Bernard P. Bishop Museum
- Jacob Blaustein
- Elizabeth Booker
- Brunschwig & Fils, Inc.
- Morris and Gwendolyn Cafritz Foundation
- Charron Foundation
- Cleveland Foundation
- Continental Oil Company
- Cook Industries, Inc.
- Pamela C. Copeland
- Cornell University
- Dairy Industry Committee of Metro Washington
- Elsie DeWolfe Foundation
- Dillon Fund
- Government of District of Columbia
- Alfred U. Elser, Jr.
- FAUNALABS, Inc.
- Joseph Fenykovi
- Harvey Firestone
- Friendship Fund
- General Electric Company
- General Telephone and Electronic Corp.
- George Washington University
- Gordon D. Gibson
- Bruce Gilchrist
- Glass Bottle Blowers Association of the United States and Canada
- William P. Graham
- Crawford H. Greenewalt
- Norris Harkness
- Harvard University Press
- Hill and Knowlton, Inc.
- Charles Horsky
- International Association of Bridge, Structural, and Ornamental Iron Workers of America
- International Telephone and Telegraph Co.
- John B. Jago
- Johns Hopkins University
- Marguerite Kellogg
- Ellsworth P. Kelly
- Mannheimer Kunstverein
- Phyllis Lambert
- Jack L. Leon
- Charles A. Lindbergh

TABLE 1.—Source and applications of funds (in thousands)
Year ended 30 June 1971

| Funds | Non-Federal Funds | | |
|---------------------------------|-------------------|----------|-------------------------|
| | Federal Funds | Total | Unrestricted Restricted |
| FUND BALANCES—1 July 1970 | \$ — | \$ 4,512 | \$ 1,870 \$ 2,356 |
| FUND BALANCES—30 June 1971 | \$ 286 | \$ 286 | \$ 286 |
| FUNDS PROVIDED | | | |
| Federal Appropriations | \$36,895 | \$ 1,444 | \$ 330 \$ 1,114 |
| Investment Income | 9,317 | 9,317 | 9,317 |
| Grants and Contracts | 2,261 | 2,261 | 356 1,905 |
| Gifts | 406 | 406 | 211 195 |
| Other | — | — | — |
| Total Provided | \$36,895 | \$13,428 | \$ 897 \$ 3,214 |
| TOTAL FUNDS AVAILABLE | \$36,895 | \$17,940 | \$ 2,767 \$ 5,570 |
| FUNDS APPLIED | | | |
| Science: | | | |
| Environmental Science | \$ 724 | \$ 1,317 | \$ 42 \$ 762 |
| Nat'l Museum of Nat. Hist. | 4,339 | 849 | — 236 |
| National Zoological Park | 3,163 | 60 | — 34 |
| Science Info. Exchange | — | 1,675 | — |
| S.A.O. | 2,107 | 3,745 | — 58 |
| Other Science | 3,162 | 900 | — 115 |
| Total | 13,495 | 8,546 | 42 1,205 |
| History and Art: | | | |
| Nat'l Portrait Gallery | 784 | 1 | — 1 |
| Nat'l Collec. of Fine Arts | 1,040 | 123 | — 121 |
| Freer Gallery | 57 | 927 | — 927 |
| Nat'l Museum of Hist. and Tech. | 2,243 | 103 | 40 62 |
| Other History and Art | 1,754 | 974 | 98 876 |
| Total | 5,878 | 2,128 | 138 1,987 |
| Public Service: | | | |
| Revenue Producing Activities | | | |
| Smithsonian Press | 691 | 136 | 136* |
| Performing Arts | 215 | 245 | 58* 44 |
| Other | — | 103 | 103* |
| Anacostia Museum | 151 | 97 | 39 58 |
| Other | 385 | 389 | — 290 |
| Total | 1,442 | 970 | 336 392 |
| Museum Programs: | | | |
| Libraries | 744 | 60 | 53 7 |
| Exhibits | 2,409 | 14 | — 14 |
| Other Programs | 591 | 15 | 8 — |
| Total | 3,744 | 89 | 61 21 |
| Buildings Management Dept | 9,285 | 0 | 0 0 |
| Administration: | | | |
| Direct | 3,051 | 2,434 | 2,434 |
| Overhead Applied | — | (1,964) | 203 1,761 |
| Net Administration | 3,051 | 2,434 | 470 203 |
| TOTAL FUNDS APPLIED | \$36,895 | \$14,167 | \$ 1,047 \$ 3,308 |
| FUND BALANCES—30 June 1971 | \$ 0 | \$ 3,773 | \$ 1,720 \$ 291 |

* Net loss before administrative charges; "Other" excludes \$52,000 gifts reported in gift income above.

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\$1,000 or more—Continued

- Link Foundation
- Howard Lipman
- Sally P. Livingstone
- Lockheed Aircraft Corp.
- Marcus Ward Lyon, Jr. Estate
- Mr. and Mrs. Robert S. McNamara
- Merek & Co., Inc.
- City of Monroe, Louisiana
- Museum d'Art et d'Histoire, Geneva
- National Audubon Society
- Mr. and Mrs. Hugo V. Neuhaus
- New York Foundation
- New York Times Foundation
- Dan H. Nicholson
- Northern Trust Company
- Occidental Petroleum Corporation
- The Poynter Fund
- H. Vnon Petrikovits
- Mrs. Clifford Robertson
- Rubin Foundation, Inc.
- Sidney Printing and Publishing Co.
- Symonds Foundation
- E. W. Thaw and Co.
- John B. Trevor, Jr.
- Marcie Brady Tucker Foundation
- W. M. Underwood Co.
- UNESCO
- Union Trust Co.
- United States Steel Corp.
- Mrs. I. G. Van Roijen

We also gratefully acknowledge other contributions in the amount of \$34,289.86 received from 484 persons during fiscal year 1971.

TABLE 2.—Summary of investments in stocks and bonds of private funds, 30 June 1971

| Funds | Book Value | Market Value |
|--|--------------|--------------|
| INVESTMENT ACCOUNTS FOR ENDOWMENT FUNDS | | |
| Freer Fund: | | |
| Cash | \$ 13,746 | \$ 13,746 |
| Bonds | 6,742,844 | 5,711,771 |
| Convertible bonds | 491,500 | 443,500 |
| Convertible preferred stock | 210,506 | 192,506 |
| Common stocks | 5,869,837 | 12,443,830 |
| Total | \$13,328,493 | \$18,805,353 |
| Consolidated Funds: | | |
| Cash | 149,913 | 149,913 |
| Bonds | 4,188,588 | 3,607,052 |
| Convertible bonds | 471,942 | 376,900 |
| Convertible preferred stock | 252,799 | 147,492 |
| Common stocks | 5,917,075 | 7,188,653 |
| Total | \$10,980,217 | \$11,470,012 |
| Endowment Fund #3: | | |
| Cash | 1,375 | 1,375 |
| Bonds | 777,625 | 798,875 |
| Common stocks | 6,352,570 | 11,530,750 |
| Total | \$ 7,131,570 | \$12,331,000 |
| Miscellaneous: | | |
| Cash | 10,065 | 9,500 |
| Bonds | 3,322 | 16,608 |
| Common stocks | 13,387 | 26,108 |
| Total | \$31,453,667 | \$42,632,473 |
| Total Endowment and Similar Funds investments | | |
| CURRENT FUNDS | | |
| Special Endowment Fund: | | |
| Cash | \$ 304 | \$ 304 |
| Bonds | 558,728 | 457,962 |
| Convertible bonds | 243,050 | 205,950 |
| Convertible preferred stock | 106,584 | 101,400 |
| Common stocks | 769,051 | 792,747 |
| Total | 1,677,717 | 1,538,363 |
| General Fund: | | |
| Cash | 70,000 | 70,000 |
| Short-term notes | 929,001 | 924,989 |
| Total | 999,001 | 994,989 |
| Miscellaneous: | | |
| Common stocks | 182,345 | 173,675 |
| Total Current Fund investments | \$ 2,859,063 | \$ 2,727,027 |

TABLE 3.—Consolidated investment fund

| Funds Participating in Pool | Investment (Book Value) 1971 | Income 1971 | Unexpended Income 30 Jun 71 |
|--|------------------------------------|----------------|-----------------------------------|
| UNRESTRICTED FUNDS | \$ 4,164,751 | \$ 175,204 | \$ — |
| RESTRICTED FUNDS: | | | |
| Abbott, William L. | 180,649 | 8,876 | 2,621 |
| Archives of American Art | 23,649 | 214 | 186 |
| Armstrong, Edwin James | 3,188 | 129 | — |
| Arthur, James | 69,309 | 3,413 | 3,838 |
| Bacon, Virginia Purdy | 160,442 | 6,928 | 12,904 |
| Baird, Spencer Fullerton | 63,452 | 3,051 | 126 |
| Barney, Alice Pike | 49,702 | 2,446 | 300 |
| Barstow, Frederic D. | 1,732 | 85 | 1,515 |
| Baichlor, Emma E. | 58,715 | 2,738 | 2,555 |
| Becker, George F. | 275,364 | 11,990 | 32,646 |
| Brown, Roland W. | 55,958 | 2,333 | 2,798 |
| Brown, Roland W. | 66,828 | 3,760 | — |
| Canfield, Frederick A. | 21,721 | 1,070 | 2,385 |
| Casey, Thomas Lincoln | 48,800 | 2,402 | 8,091 |
| Chamberlain, Frances Lea | 1,502 | 50 | — |
| Cooper, G. Arthur, Curator's Fund | 158,645 | 5,828 | 40,597 |
| Cooper-Hewitt Museum | 3,439 | 131 | 924 |
| Division of Mammals Curator Fund | 591 | 22 | 47 |
| Division of Reptiles Curator Fund | 270,121 | 9,936 | 24,368 |
| Drake, Carl J. | 74,607 | 3,671 | — |
| Dykes, Charles | 18,836 | 927 | 9,051 |
| Eickmeyer, Florence Brevoort | 176,211 | 4,604 | 4,888 |
| Guggenheim, David and Florence | — | — | — |
| Hanson, Martin Gustav and Caroline Runice | 15,407 | 758 | 10,274 |
| Hillyer, Virgil | 11,389 | 561 | 5,891 |
| Hitchcock, Albert S. | 2,737 | 136 | 1,056 |
| Hrdicka, Ales and Marie | 104,260 | 4,249 | 3,219 |
| Hughes, Bruce | 33,172 | 1,635 | 19,359 |
| Johnson, E. R. Fenimore | 14,383 | 561 | 3,067 |
| Kellogg, Remington, Memorial | 9,580 | 87 | 75 |
| Landsey, Jessie H. | 634 | 24 | 171 |
| Loeb, Morris | 151,131 | 7,518 | 1,393 |
| Long, Annette E. and Edith C. | 7,710 | 70 | — |
| Lyons, Marcus Ward | 83,992 | 1,674 | 28,846 |
| Maxwell, Mary E. | 35,013 | 1,723 | 3,490 |
| Meyer, Catherine Walden | 41,099 | 1,896 | 427 |
| Nelson, Edward William | 1,670 | 87 | 940 |
| Noyes, Frank B. | 12,850 | 636 | 8,527 |
| Petrocelli, Joseph Memorial | 12,850 | 635 | 6,638 |
| Pell, Cornelius Livingston | 480,156 | 18,962 | 54,052 |
| Ramsey, Admiral and Mrs. DeWitt Clinton | 18,436 | 911 | 9,987 |
| Rathbun, Richard Memorial | 30,823 | 1,517 | 460 |
| Reid, Addison T. | 209,097 | 10,243 | — |
| Reebing Collection | 43,259 | 1,959 | — |
| Reebing Solar Research | 301,552 | 13,147 | 10,221 |
| Rollins, Miriam and William | 104,055 | 2,277 | — |
| Smithsonian Agency Account | 2,190,963 | 79,103 | — |
| Sprague, Joseph White | 31,075 | 1,528 | 17,800 |
| Spruiger, Frank | 10,355 | 415 | 349 |
| Stevenson, John A. | 17,330 | 857 | 1,624 |
| Strong, Julia D. | 7,344 | 275 | — |
| T. F. H. Publications, Inc. | 193,085 | 8,226 | — |
| Walcott, Charles D. | 797,383 | 39,228 | — |
| Walcott, Charles D. and Macy Vaux | 100,112 | 4,757 | — |
| Walcott, Botanical Publications | 1,616 | 81 | — |
| Zerbe, Francis Brinckle | — | — | 1,436 |
| Total Restricted Funds | \$ 6,815,466 | \$ 280,388 | \$ 317,790 |
| Total Consolidated Fund | \$10,980,217 | \$455,592 | \$317,790 |

PEAT, MARWICK, MITCHELL & CO.

CERTIFIED PUBLIC ACCOUNTANTS
1025 CONNECTICUT AVENUE, N. W.
WASHINGTON, D. C. 20036

*The Board of Regents
Smithsonian Institution:*

We have examined the balance sheet of private funds of Smithsonian Institution as of 30 June 1971 and the related statement of changes in fund balances for the year then ended. Such statements do not include the account of the National Gallery of Art, the John F. Kennedy Center for the Performing Arts, or other departments, bureaus and operations administered by the Institution under federal appropriations. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, except for the method of accounting for fixed assets and related depreciation described in note 1, the accompanying balance sheet and statement of changes in fund balance of private funds present fairly the financial position of Smithsonian Institution at 30 June 1971, and the results of its operations for the year then ended, in conformity with generally accepted accounting principles which, except for the adoption of the accrual basis of accounting for all funds described in note 2 in which we concur, were applied on a basis consistent with that of the preceding year.

PEAT, MARWICK, MITCHELL & CO.

27 August 1971

SMITHSONIAN INSTITUTION
BALANCE SHEET OF PRIVATE FUNDS 30 JUNE 1971
(With comparative figures for 1970) (note 2)

Assets

| | 1971 | 1970 |
|--|--------------|--------------|
| CURRENT FUNDS: | | |
| Cash: | | |
| In U.S. Treasury | \$ 413,857 | \$ 49,599 |
| In banks and on hand (including \$79,273 in savings; \$17,214 in 1970) | 235,270 | 168,225 |
| Total cash | 649,127 | 217,824 |
| Receivables: | | |
| Accounts | 774,772 | 352,814 |
| Advances—travel and other | 194,835 | 146,269 |
| Reimbursements—grants and contracts | 1,369,306 | 1,835,671 |
| | 2,338,863 | 2,334,754 |
| Inventories at net realizable value | 522,908 | 544,413 |
| Investments—stocks and bonds at cost (market value \$2,656,723; \$2,900,264 in 1970) | 2,788,759 | 3,409,426 |
| Prepaid expense | 116,988 | 39,541 |
| Deferred magazine subscription expenses (note 3) | 404,472 | 267,300 |
| Equipment (less accumulated depreciation of \$71,636; \$49,932 in 1970) (note 4) | 521,325 | 64,115 |
| Total current funds | \$ 7,342,442 | \$ 6,877,373 |

ENDOWMENT AND SIMILAR FUNDS:

| | | |
|--|--------------|--------------|
| Cash | 165,033 | 77,533 |
| Note receivable | 96,663 | 96,934 |
| Investments—stocks and bonds at cost (market value \$42,467,439; \$29,456,568 in 1970) | 31,288,633 | 30,213,145 |
| Loan to U.S. Treasury in perpetuity | 1,000,000 | 1,000,000 |
| Real estate (at cost or appraised value at date of gift) (note 5) | 2,176,219 | 1,760,448 |
| Total endowment and similar funds | \$34,726,548 | \$33,148,060 |

See accompanying notes to financial statements.

SMITHSONIAN INSTITUTION
PRIVATE FUNDS

Statement of Changes in Fund Balances
Year ended 30 June 1971

27

STATEMENT BY THE SECRETARY

Current Funds

| | Total | Unrestricted funds | | | Restricted funds | | |
|--|-------------|--------------------|------------|-----------|---------------------|----------|-------------------------|
| | | General | Activities | Gifts | Grants and contract | Freer | Unexpended income Other |
| Balance at 30 June 1970 | \$4,511,854 | 1,869,941 | — | 1,566,028 | 286,144 | 434,873 | 354,868 |
| Adjustments from cash to accrual basis | (126,218) | (11,594) | — | (72,987) | — | (44,967) | 3,350 |
| Adjusted balance at 30 June 1970 | 4,385,636 | 1,858,347 | — | 1,493,041 | 286,144 | 389,906 | 358,198 |
| Additions: | | | | | | | |
| Grants and contracts net of refunds | 9,316,961 | — | — | — | 9,316,961 | — | — |
| Investment income | 1,448,758 | 334,452 | — | 34,200 | — | 673,625 | 406,481 |
| Gifts and bequests | 2,261,285 | 304,292 | 52,218 | 1,895,589 | — | 1,705 | 7,481 |
| Gross profit on sales | 2,465,922 | 2,465,922 | — | — | — | — | — |
| Rental | 1,166,723 | 1,166,723 | — | — | — | — | — |
| Net gain (loss) on sale or exchange of investments | 231,029 | 56,926 | — | 127,042 | — | 67,259 | — |
| Total additions | (4,541) | (4,541) | — | — | — | — | — |
| Total deductions | 16,906,737 | 1,857,852 | 2,518,140 | 2,056,831 | 9,316,961 | 742,589 | 414,364 |
| Deductions (additions): | | | | | | | |
| Expenditures: | | | | | | | |
| Administrative | 3,972,791 | 2,678,092 | 1,294,699 | 712,667 | — | 386,771 | 83,557 |
| Research | 5,076,632 | — | — | 317,318 | — | 249,891 | 31,634 |
| Public relations | 599,043 | — | — | — | — | — | — |
| Travel and transportation | 644,201 | 65,751 | 58,272 | 152,537 | 323,104 | 31,223 | 13,314 |
| Equipment and facilities | 1,319,378 | 116,450 | 23,979 | 349,249 | 808,459 | 12,865 | 8,376 |
| Supplies and material | 500,841 | 161,864 | 174,369 | 264,351 | 74,237 | — | — |
| Printing | 260,900 | 260,900 | — | — | — | — | — |
| Communications | 147,641 | 69,150 | 17,116 | 11,872 | 40,445 | — | 58 |
| Contractual services | 2,377,568 | 318,773 | 493,967 | 759,459 | 639,968 | 126,529 | 38,872 |
| Computer rental | 653,121 | — | — | 1,182 | 651,939 | — | — |
| Promotion and advertising | 662,026 | — | 662,026 | — | — | — | — |
| Administration | 22,404 | — | 22,404 | — | — | — | — |
| Administrative expenditures applicable to other funds | — | (2,254,104) | 289,700 | 116,364 | 1,761,099 | 40,417 | 46,524 |
| Total deductions carried forward | 17,487,302 | 1,419,993 | 3,052,387 | 2,562,038 | 9,305,004 | 921,933 | 225,947 |
| Adjusted balance at 30 June 1970 brought forward | \$4,385,636 | 1,858,347 | — | 1,493,041 | 286,144 | 389,906 | 358,198 |
| Total additions brought forward | 16,906,737 | 1,857,852 | 2,518,140 | 2,056,831 | 9,316,961 | 742,589 | 414,364 |
| Total deductions brought forward | 17,487,302 | 1,419,993 | 3,052,387 | 2,562,038 | 9,305,004 | 921,933 | 225,947 |
| Transfers in (out): | | | | | | | |
| Income added to principal | (63,322) | — | — | — | — | — | (63,322) |
| Transfer to unexpended | 257,320 | — | — | — | — | — | 257,320 |
| Transfer to endowment funds | (227,064) | (21,053) | — | (206,011) | — | — | (400,945) |
| Transfer to restricted funds—gifts | — | (13,037) | — | 300,945 | — | — | 1,659 |
| Transfer for designated (Transfer to grants) computer services to commercial users | — | (8,212) | — | 26,950 | (15,572) | — | — |
| Transfer in support of activities | (531,247) | 531,247 | — | — | — | — | — |
| Total transfers | (43,066) | (576,519) | 531,247 | 121,884 | (7,160) | — | (105,298) |
| Net income (loss) after transfers | (63,322) | (118,600) | (483,221) | 4,597 | (179,344) | 83,129 | — |
| Balance at 30 June 1971 | \$4,772,005 | 1,719,657 | 1,109,718 | 290,711 | 210,562 | 411,327 | — |

See accompanying notes to financial statements.

SMITHSONIAN INSTITUTION
BALANCE SHEET OF PRIVATE FUNDS 30 JUNE 1971
(With comparative figures for 1970) (note 2)

Liabilities and Fund Balances

| | 1971 | 1970 |
|--|--------------|--------------|
| CURRENT FUNDS: | | |
| Notes payable (note 4) | \$ 654,613 | \$ — |
| Accounts payable | 814,581 | 1,381,000 |
| Accrued liabilities | 570,068 | 63,986 |
| Unrestricted fund balance | 1,719,657 | 1,858,347 |
| Deferred income: | | |
| Magazines subscriptions | 1,400,926 | 1,030,115 |
| Other | 130,249 | 16,627 |
| | 1,531,175 | 1,046,742 |
| Restricted fund balances: | | |
| Gifts | 1,109,718 | 1,493,041 |
| Grants and contracts | 290,741 | 286,144 |
| | 1,400,459 | 1,779,185 |
| Unexpended income: | | |
| Freer | 210,562 | 389,906 |
| Other | 441,327 | 358,198 |
| | 651,889 | 748,104 |
| Total current funds | \$ 7,342,442 | \$ 6,877,373 |
| ENDOWMENT AND SIMILAR FUNDS: | | |
| Mortgage note payable (note 5) | 293,641 | 310,697 |
| Fund balances: | | |
| Endowment funds—income restricted: | | |
| Freer | 13,328,493 | 13,188,994 |
| Other | 14,166,763 | 13,099,645 |
| Current funds reserved as an endowment—income unrestricted | 5,055,073 | 5,098,973 |
| Real estate acquisition fund | 1,882,578 | 1,449,751 |
| Total fund balance | 34,432,907 | 32,837,363 |
| Commitments (note 6) | \$34,726,548 | \$33,148,060 |

SMITHSONIAN INSTITUTION
PRIVATE FUNDS

Notes to Financial Statements
30 June 1971

SMITHSONIAN INSTITUTION
PRIVATE FUNDS

Statement of Changes in Fund Balances
Year ended 30 June 1971

Endowment and Similar Funds

| | Endowment | | Current funds reserved as an endowment | Real estate acquisition fund |
|--|--------------|------------|--|------------------------------|
| | Total | Other | | |
| Balance at 30 June 1970 | \$32,837,363 | 13,188,994 | 5,098,973 | 1,449,751 |
| Adjusted from cash to accrual basis | — | — | — | — |
| Adjusted balance at 30 June 1970 | 32,837,363 | 13,188,994 | 5,098,973 | 1,449,751 |
| Additions | | | | |
| Grants and contracts net of refunds | — | — | — | — |
| Investment income | — | — | — | — |
| Gifts and bequests | 1,676,848 | — | 79,776 | 251,816 |
| Gross profit on sales | — | — | — | — |
| Other | — | — | — | — |
| Net gain (loss) on sale or exchange of investments | (114,370) | — | (123,676) | — |
| Total additions | 1,562,478 | 139,499 | (43,900) | 251,816 |
| Deductions (a-ditions): | | | | |
| Expenditures: | | | | |
| Salaries and benefits | — | — | — | — |
| Administrative | — | — | — | — |
| Research | — | — | — | — |
| Purchases for collection | — | — | — | — |
| Transportation | — | — | — | — |
| Equipment | — | — | — | — |
| Supplies and material | — | — | — | — |
| Rent and utilities | — | — | — | — |
| Communications | — | — | — | — |
| Computer rental | — | — | — | — |
| Promotion and advertising | — | — | — | — |
| Depreciation | — | — | — | — |
| Other | — | — | — | — |
| Unallowable expenditures applicable to other funds | — | — | — | — |
| Total deductions carried forward | — | — | — | — |
| Adjusted balance at 30 June 1970, brought forward | \$32,837,363 | 13,188,994 | 5,098,973 | 1,449,751 |
| Total additions, brought forward | 1,562,478 | 139,499 | (43,900) | 251,816 |
| Total deductions, brought forward | — | — | — | — |
| Income added to principal | 63,322 | — | — | — |
| Transfer to unexpended income | (257,320) | — | — | — |
| Transfer to endowment funds | 227,064 | — | — | — |
| Transfer for designated interest-free gifts | — | 63,322 | — | — |
| (Transfer to grants) computer services to commercial users | — | (237,320) | — | — |
| Transfer in support of activities | — | 4,683 | — | — |
| Total transfers | 33,066 | (147,945) | — | — |
| Net income (loss) after transfers | 1,595,544 | 139,499 | (43,900) | 181,011 |
| Balance at 30 June 1971 | \$34,432,907 | 13,328,493 | 5,055,073 | 1,630,762 |

See accompanying notes to financial statements.

1. *Accounting for Fixed Assets*.—The Institution records additions to fixed assets as follows: museum shops and computer equipment purchased with now appropriated funds are capitalized in the current fund; land and buildings acquired by gift are recorded in the endowment and similar fund at the appraised value at date of gift except for gifts of certain islands in the Chesapeake Bay and the Carnegie Mansion which have been recorded at nominal values; land buildings, furniture, equipment, works of art, living and other specimens, and certain other similar property purchased from federal appropriations, nonappropriated funds, except as indicated above or proceeds of gifts are not included in the accounts of the Institution; depreciation is recorded only for the computer and business-type activities.

2. *Basis of Accounting*.—On 1 July 1970 the Institution changed its method of accounting for restricted funds and endowment and similar funds from the cash receipts and disbursements to the accrual basis. The comparative balance sheet has been restated to reflect this change—with this change, all private funds of the Institution are accounted for on the accrual basis.

3. *Deferred Magazine Subscription Expenses*.—This amount represents promotional expenses incurred in connection with the Smithsonian magazine. These expenses are to be amortized over a period of twelve months.

4. *Notes Payable*.—The notes payable of 30 June 1971 are summarized as follows:

| | |
|---|-----------|
| 6% unsecured note payable to a bank due 25 June 1972 | \$175,000 |
| Installment note payable secured by computer equipment due 30 June 1976 in monthly payments of \$7,993.64 | 179,614 |
| | \$654,614 |

5. *Mortgage Notes Payable*.—The mortgage notes payable are secured by first deeds of trust on property acquired in connection with the Chesapeake Bay Center. Funds for the curtailment of these notes will be transferred from Restricted Funds—Gifts, designated for the development of the Chesapeake Bay Center. The details of the mortgage notes payable are as follows:

- a. A \$252,700 note on property acquired for \$376,000. The note is payable in nineteen consecutive semi-annual installments of \$13,300, plus interest at the prevailing prime rate on the due date of payment but not less than 8%.
- b. A \$10,911 note on property acquired for \$18,533. The note is payable in monthly installments of \$151.62, including interest at the rate of 6% with the final payment due on 1 November 1989.

6. *Commitments*.—Pursuant to an agreement, dated 9 October 1967, between the Institution and the Cooper Union for the Advancement of Science and Art,

the Institution acquired, on 1 July 1968, all funds belonging to the Cooper Union for use exclusively for museum purposes, and certain articles of tangible personal property as defined in the agreement.

The agreement provided, among other covenants, that the Institution would maintain a museum in New York City and has pledges in excess of \$800,000 for the support of such a museum. Pledges in the amount of \$660,000 have been collected to date.

SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01683 3022