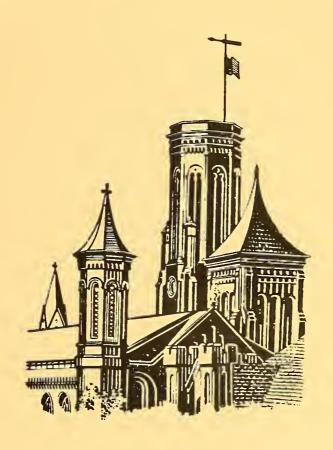
# SMITHSONIAN INSTITUTION

FIVE-YEAR PROSPECTUS FY 1982 - FY 1986



January 26, 1981



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At the meeting of the Board of Regents, January 26, 1981, it was

VOTED that the Board of Regents approves the Five-Year Prospectus dated January 26, 1981, covering the fiscal years 1982 to 1986, anticipating that annual revisions will similarly be presented for its approval.

Secretary Ryl



# SMITHSONIAN INSTITUTION FIVE-YEAR PROSPECTUS FY 1982 - FY 1986 INTRODUCTION

James Smithson bequeathed the whole of his property "to the United States of America, to found at Washington, under the name of the Smithsonian Institution, an establishment for the increase and diffusion of knowledge among men." In doing so, he created a charitable trust, through the terms of which the United States would serve as trustee for purposes directed toward the benefit of all mankind. By the Act of July 1, 1836, Congress accepted Smithson's bequest, and pledged the "faith of the United States" to carry out its purposes. In the Act of August 10, 1846, Congress established the Institution in its present form and placed responsibilities for management with a Board of Regents.

The Smithsonian is a unique combination of a privately endowed and governmentally supported institution administered by a Board composed of both ex officio governmental officials and governmentally selected citizens. This arrangement has made possible the remarkable achievements of the Institution during the 134 years of its existence. Over the years, this unique Institution has come to be regarded as one of the world's most important repositories for both private and public collections and for contributions from donors who wish to support the increase and diffusion of knowledge. The great National Collections now consist substantially of private gifts. Continuing additions to the Smithsonian's trust funds have expanded and nourished the Institution's usefulness. Appropriations recommended by the President (who is ex officio a member of the Smithsonian Establishment) and approved by Congress have provided steadily increasing federal support for many of the Smithsonian's farreaching services to the public. Through the development of the Smithsonian Associate programs, the Institution now has a nationwide group of interested supporters who sponsor many of its educational activities across the country.

The Smithsonian Institution's programs are devoted to public education, research, and national service in the arts, sciences, and history. Centered on the Mall in Washington, D.C., it also operates major facilities and activities elsewhere in Washington, across the country, and overseas. It is one of the world's leading research centers and encompasses the world's largest museum complex, attracting approximately 27,000,000 visitors annually to its museums, galleries, and zoological park. Additional millions of people also view Smithsonian traveling exhibitions, which appear throughout the United States and abroad, and its annual Folklife Festival. As custodian of the National Collections, it possesses more than 78,000,000 art objects, natural history specimens, and artifacts. The collections are displayed for the enjoyment and education of visitors and are utilized for research by the

staff of the Institution and by hundreds of visiting students, scientists, and historians each year. Other significant study efforts draw their data and results directly from terrestrial, marine, and astrophysical observations made in the field or located in data collections of various Smithsonian installations.

The broad goal of the Smithsonian Institution is the increase and diffusion of knowledge about Man, his culture and his environment. To accomplish this, the Smithsonian conducts a wide range of programs, many of which are joint ventures in cooperation with other institutions, universities, and government agencies in the United States and on every continent. As an outgrowth of basic scientific research, fundamental data are assembled for use by planners and research workers in other organizations, both government and private. Much of this activity fosters conservation, and can be expected to lead to results that are directly applicable to national needs and goals. Historical research, which enhances knowledge of this nation's growth through studies of technological development, art, and folklife and folklore traditions, also is a major endeavor.

The results of the Institution's research are disseminated to a wide audience through books, monographs, exhibit catalogues, and education pamphlets. Public-oriented programs include exhibits, performances, radio, television, and Smithsonian Magazine. The management and care of the National Collections and a program for the selective acquisition of important items are basic commitments. Administration and support functions, including the development and care of facilities, protection and management services, serve the program elements of the Institution.

In the fall of 1977, the Regents and the Secretary established a five-year forward planning process covering all activities of the Institution. This process has proven to be a useful mechanism for management to examine development alternatives and to communicate important results and information to the Institution's Congressional authorizing and appropriations committees, and to other interested constituents. The Five-Year Prospectus, FY 1982-86 is the third in a series of documents resulting from that action. The first document was approved by the Regents at their January 22, 1979 meeting; the second was approved at their January 28, 1980 meeting.

The process is an annual one and involves the preparation of plans and resource projections by each of the Smithsonian's organizations. The review of these materials by appropriate executive staff members occurs throughout the spring and summer months simultaneously with the assembly of the federal and trust budgets for the forthcoming fiscal year. A draft Prospectus is prepared and submitted to the Regents for initial consideration in September of each year. Following the Regents' approval of the forthcoming budgets in September, and the review in October or November by the Office of Management and Budget of the Institution's federal budget request, the Prospectus is adjusted and prepared for approval by the Regents at their January meeting. If approved, it is distributed to the Institution's various Congressional committees at about the same time as the request for Congressional appropriations.

The Prospectus represents a summary of the areas that will be given priority and emphasis over the next five years. It should be read in conjunction with another publication, the Smithsonian Institution's Programs and Activities, which provides background information on the programs of each of the Institution's operating activities. The content presented here is arranged by the major organization grouping of the Institution and corresponds to the assembly of the FY 1982 budget which will be presented to the Congress; i.e., Science, History and Art, Public Service, and Museum Programs, with separate sections treating Special Programs, Associate Programs, Business Management Activities, and administrative and facilities development plans. Several items discussed in the text, along with the financial figures for FY 1982, complement the Institution's budget submission to Congress, and also appear in that document.

The Prospectus for FY 1982-86 reflects needs and opportunities that the Smithsonian has described before. One new proposal has been incorporated since the second issue, the Major Collections Acquisition Program, which is to be federally supported beginning in FY 1983 and is intended to supplement the trust funded acquisition activities. The Prospectus also incorporates a planned extension of Native American programs, which calls for additional funding for training and artifact conservation activities in FY 1982, for the development of new exhibitions on American Indians in the Museums of Natural History and American History perhaps beginning in FY 1983, and for the potential transfer and care of a large and important collection to the Institution in later years. Also included in this Prospectus and in the FY 1982 federal budget submission are funds for reestablishing the Research Awards Program, for which appropriations were not granted by Congress in FY 1980 or FY 1981, and a special one-time FY 1983 request for enough funds to purchase needed photocopying equipment in various bureaus of the Institution. All of these planned efforts appear in the Special Programs chapter.

The Prospectus emphasizes selected aspects of the Institution's work while assuring that others will continue at approximately the present level of activity. Areas of emphasis and priority include collections management, basic research, exhibition programs, administration and technical support, and the maintenance and development of current and new facilities for ongoing programs and those of the future.

A refinement of costs (consisting of some additional expenses related to transfer, moving, and care of collections) associated with operating the Museum Support Center, which is planned to open in FY 1983, has occurred over the course of the year and these costs are highlighted in a special table, Table 13. FY 1982 equipment requirements, along with future year needs through FY 1986, are consolidated in the Special Programs chapter. Operating cost requirements, as known at this time, are contained within the program descriptions of the involved units, i.e., the Conservation Analytical Laboratory, Office of Horticulture, Libraries, Protection Services, and Plant Services.

The National Museum of American History was formerly known as the National Museum of History and Technology. Legislation affecting the title change was approved by Congress October 1, 1980 and signed by the President October 13, 1980. The same action changed the name of the National Collection of Fine Arts to the National Museum of American Art. The new titles are used throughout this Prospectus.

In a significant way, through the budget process, the Institution has redirected current federal funds to meet high priority needs and has applied unrestricted trust fund income as self-help contributions to maintain the administrative support balance and to strengthen programs of acquisition, research, and education. Such efforts will continue to the best of the Institution's ability given the pressures at work on the federal budget from inflation and rising public use of our services, and given the uncertainty surrounding the continued availability of unrestricted trust income from auxiliary and other activities. Although the present revenues are encouraging, the Institution's management feels only guardedly optimistic about the next five-year projection of such income. As in all business cycles, the public acceptance of the Institution's products or services, for example, those performed by the National Associates, is speculative. It is quite possible that in the next five years the Magazine, which is the most popular of the Associates' activities, may suffer a decline in its success contingent with the business cycle. Similarly, purchases in the Institution's shops, sales of books or records, or the sale of other products issued through the Associates' activities as services for them, may decline. As with any such projections, therefore, it seems imperative that appropriate safeguards should be taken against the assumption that the expansion of these activities will continue in an unbroken progressive curve.

The Institution will continue to pursue the following principal objectives over the next five years.

### <u>Objectives</u>

### Operations

mentation and care of the collections through inventories, the future development of information retrieval systems, and conservation of museum collections. By mid-FY 1983, it is planned that most inventories, tailored to the needs of different types of specimens and objects, will be completed, and that those collections to be relocated to the Museum

Support Center will have been fully inventoried to enable immediate retrieval and use.

1. To strengthen museum operations in the docu-

2. To improve the level of technical assistance and program funds which encourage original research by the Institution's professional staff in science, history, and art, priority is placed on stimulating innovative approaches to research through competition and outside peer evaluation, and through in-residence fellowships for senior and aspiring junior scholars of national and international reputation. Principal Funding Source(s)

Federal Appropriations

Federal Appropriations and Nonappropriated Unrestricted Trust Funds 3. To develop contemporary exhibitions and exhibition techniques to communicate to the Institution's audiences recent discoveries, important ideas, and new results of scholarship in science, history, and art, particularly as they relate to the Native American programs of the Institution.

Federal Appropriations

4. To enhance the Institution's capabilities in national and international environmental conservation, research and education with emphasis on temperate and tropical biology, and on the conservation and study of endangered species.

Federal Appropriations

5. To continue to offer the nation an outstanding magazine, and other quality publications on subjects within the Institution's responsibilities; to provide radio programs, recordings, and television presentations. Nonappropriated Unrestricted Trust Funds

6. To plan and develop a collections conservation and conservation training program to become an integral part of the Museum Support Center and the conservation facilities of the Institution, and to serve the nation's museum community.

Federal Appropriations and Nonappropriated Unrestricted Trust Funds

7. To strengthen the National Collections for research and exhibitions through the acquisition of important objects and specimens.

Federal Appropriations and Nonappropriated Unrestricted Trust Funds

8. To augment administrative, financial, and other support services to meet current and anticipated program needs. Areas of special emphasis include personnel, facilities planning and engineering, and library services to meet the total requirements of the Institution; computer and photographic services in connection with improved documentation of the collections; and facility and protection services related to the operations of the Museum Support Center. Strengthening of equal employment opportunities and activities will also receive increased attention over the planning period.

Federal Appropriations and Nonappropriated Unrestricted Trust Funds

### Facilities

1. To plan, construct, and open the Museum Support Center as a major contribution to the management and control of collections for research and study and to facilitate conservation and conservation training. Federal Appropriations and Nonappropriated Unrestricted Trust Funds

2. To plan and pursue the development of the Quadrangle (the area bounded by the Smithsonian Institution Building, the Freer Gallery of Art, the Arts and Industries Building, and Independence Avenue) to accommodate primarily the Museum of African Art and additional space for the exhibition of Eastern Art.

Federal Appropriations,
Nonappropriated
Unrestricted
Trust Funds, and
Private Donations

3. To complete the Master Plan for the development of new animal and public facilities at the Zoological Park in Rock Creek Valley, and to improve the research, conservation, and visitor education facilities at the Zoo's Research and Conservation Center at Front Royal, Virginia.

Federal Appropriations

4. To repair, upgrade, and restore Smithsonian buildings to keep them in safe and functional condition with special emphasis on the provision of fire detection, containment, and suppression systems and access by handicapped persons.

Federal Appropriations

5. To provide new and renovated facilities at the Smithsonian's Washington, D.C. and field locations for purposes of facilitating research and educational programs.

Federal Appropriations

For the most part, the effects of inflation cannot be incorporated realistically into the Institution's resource forecasts for bureau and program operations. Summary Table 1, however, attempts to show the general levels of resources that would materialize assuming legislated pay changes are forthcoming in the range of 7 or 8 percent per year and assuming federal nonpersonnel purchases occur based on price changes for future years as derived from indices supplied by the Office of Management and Budget. Similar patterns are incorporated for trust projections. By FY 1986, resources from all sources required for various operations would increase from present FY 1980 levels of approximately \$205,000,000 to \$364,000,000.

Exclusive of legislated pay increases, federal salaries and expenses are projected to increase approximately \$75,000,000. Significant additions are forecasted for such items as utility costs, necessary pay increases, inflation in nonpay areas, equipping and operating the Museum Support Center, establishment of the Major Collections Acquisition Fund, strengthening the Native American training, exhibition, and collection activities, basic and interpretive research utilizing the collections and scientific and cultural information, improvement to technical and administrative support, and for physical plant operations and maintenance.

Trust operations and expenses are expected to increase by approximately \$47,000,000. These increases involve particularly the unrestricted trust funded publications, including the Magazine and the Exposition Books Program, where production expenses are predicted to increase considerably. Detailed forecasting of federal grant and contract activities is difficult to achieve,

but the Institution expects increasing support for various operations in future years, especially the Astrophysical Observatory. Finally, expenses associated with operations funded by restricted trust fund resources are expected to remain relatively stable, and these will continue to be accommodated largely by income related to restricted fund investments.

The trust forecasts assume the Institution will continue to make measured progress in increasing its capital reserves (endowments), thus approximately \$2,000,000 a year is incorporated into the projections for this purpose. In addition, trust support for fellowship stipends, collections acquisition, research, and other educational activities is projected to be slightly higher in future years if economic conditions permit, and if the Institution's auxiliary and revenue-producing activities continue to perform in a satisfactory fashion. In addition, if conditions permit, as a measure of its commitment to the future development of the South Quadrangle, the Institution intends to allocate \$1,000,000 to \$2,000,000 of its trust proceeds annually over the planning period towards the construction requirements of that high priority project. A request is being made in FY 1982 to obtain \$24,135,000 in construction appropriations, or about one-half of the total estimated construction costs. Additional emphasis will be given to raising funds from private donors to finish the project during the planning period.

Major additions to physical facilities to be completed over the next five years, in addition to the Quadrangle, consist of the Museum Support Center, which received appropriations for construction in FY 1980 and FY 1981, and the Zoological Park Rock Creek facilities. With regard to Museum Support Center construction, the Institution has committed \$2,500,000 in unrestricted trust funds to help complete the building according to its original design. These outlays should take place over the period FY 1982-84 and are planned to be funded by deferring \$750,000 of equipment purchases for the Conservation Analytical Laboratory until FY 1984-85, and directing the proceeds of the planned sale of the Belmont Conference Center to the Museum Support Center rather than to further Chesapeake Bay Center land purchases. Improvements and contemplated changes to other facilities include the installation of fire detection and suppression systems, the correction of other hazardous conditions and attention to disabled persons access, the provision of renovated and new facilities (especially at the Institution's field activities such as Mt. Hopkins, Arizona, and the Chesapeake Bay Center), and a continuing program of repairs and maintenance of all Smithsonian buildings.

### Notes on Financial Projections

The tables were designed to show trends in the Institution's future year resource patterns, and to reflect the changes and growth contained in the narrative portions of this report. The FY 1980 figures are end-of-year amounts for expenditures and income after closing the books of the Institution. FY 1981 figures reflect November 1980 Congressional action on the Institution's appropriations request, Board of Regents' authorization to expend the FY 1981 appropriation, and Board of Regents' approval of the nonappropriated trust fund portion of the FY 1981 budget. The FY 1982 federal figures are those contained in the President's budget submitted to Congress in January 1981.

Projections for years FY 1982-FY 1986 were derived from basic materials prepared by the organizations and bureaus of the Institution and then reviewed by the appropriate members of the Secretary's Executive Committee. Beyond FY 1982, the trends represent management's best estimates of federal and trust resources that will be needed to meet program and operating aspirations of the Institution.

Trust fund projections, as mentioned earlier, are particularly vulnerable to fluctuations in the nation's economic climate. They are presented to help explain the expected institutional use of these funds if visitations grow moderately in spite of potential alteration of travel patterns due to the supply and price of energy products, and if consumer interest in institutional products remains relatively stable over the planning period. Trust funds are composed of restricted and unrestricted funds. Unrestricted trust funds (general and special purpose) originate from a variety of sources including income from endowments and current fund investments, parking and food service concessions, sales of Smithsonian products based on designs and objects in the collections, the Resident and National Associate Programs (including Smithsonian Magazine), and the museum shops. In addition, certain bureaus have their own income-producing activities, such as the Theater and Spacearium operations of the Air and Space Museum. Restricted trust funds include gifts, grants, endowment and other income designated for specific projects and purposes by the donor. The Freer fund is the largest example in this category, being strictly controlled under the terms of the original bequest for the sole use of the Gallery.

There are three major purposes to which the unrestricted trust funds are applied. First, the expenses of the Associate Programs and revenue producing activities, such as the Smithsonian Magazine and the museum shops, are funded from the earned income of these activities. Secondly, central management and administrative service units of the Institution, such as legal counsel, accounting, personnel, supply and others, receive trust fund allotments funded almost entirely from the overhead recovery on grants and contracts administered by the Smithsonian and from administrative fees charged to trust-funded activities. General operating funds are also provided to various units for research and other specific purposes. Third, a variety of allocations for important institutional and bureau needs have been made with the approval of the Board of Regents, such as the Collection Acquisition, Scholarly Studies, and Education Program; the Institution's Fellowship programs; the trust fund share of the rental costs incurred by administrative units and revenue producing activities; and the reserves for the Quadrangle development.

After the three major categories of operating expense financed with unrestricted trust funds are met, the remaining unrestricted income is designated for three purposes. Funds are transferred to the museums and galleries in recognition of their assistance in the planning and carrying out of museum shop, product development and concession programs. These funds, amounting to

only a few hundred thousand dollars each year, are used for the general operations of the receiving bureaus. A second designation is for improvements to the physical plant or land acquisitions, such as for the Sensory Garden. Finally, funds permitting, the Institution makes an annual transfer to its endowment for the purpose of providing income for rising costs in future years.

The other source of nonappropriated funding, federal grants and contracts, is made available to the Smithsonian by governmental agencies and departments to support specific types of research, educational or other projects which the Smithsonian can undertake as a result of its expertise or its ability to respond quickly to certain kinds of needs.

Tables 1 and 2. Table 1 contains general levels of dollar resources (or revenues) from various sources which the Institution projects will be necessary for the conduct of its operations. In a summary fashion, it incorporates estimates for inflation and pay increases associated with federal and trust operations of the Institution. Table 2 projects expenses by functional area of operation (Science, History and Art, etc.) along with the application of trust funds to such items as plant improvements, endowments, and special activities such as the Collection Acquisition, Scholarly Studies, and Education Program.

Tables 3 through 10. These contain detailed expense projections for the Institution's museums, galleries, and laboratories. For ease of presentation, expenses associated with the various administrative, financial, and support organizations of the Institution are grouped into three categories in Table 10: (1) Central Management Offices, (2) Specialized Administrative and Technical Offices, and (3) Facilities Offices.

Tables 11 and 12. All major construction projects are included that are underway or being planned. For some future projects, detailed planning and estimating remain to be done (e.g., base camp facilities at Mt. Hopkins for the Observatory) and the amounts as well as the possible sources of funding have not been fully determined.

Table 13. Projections associated with equipping and operating the Museum Support Center are consolidated in Table 13 to provide a summary of resources needed for this project through FY 1986. Equipment projections also appear in the Special Programs chapter, while operational costs are contained in the appropriate projections for bureaus and organizations in each chapter.

# SMITHSONIAN INSTITUTION SOURCE OF OPERATING FINDS FY 1980 PROJECTED THROUGH FY 1986

(\$000)	FY 1980	1980 PROJECTED THROUGH FY 1986	IROUGH FY 19	36			Table 1
SOURCE OF OPERATING FUNDS	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
Federal Salaries and Expenses	107,764	123,010	136,386	164,591	169,523	173,727	182,579
pay raises	6		5,800	11,800	18,800	25,800	33,800
Subtotal	107,764	123,010	142,686	176,391	188,323	199,527	216,379
Nonappropriated Trust Funds Unrestricted General							
. Investments	2,470 14	2,234 50	2,483	2,550	2,600 50	2,650 50	2,675
.Auxiliary Activities .Miscellaneous	73,101	79,624	86,560	93,785	101,018	109,696	118,109
Subtotal	75,725	81,958	89,143	96,435	103,718	112,446	120,884
Unrestricted Special Purpose . Investments	430	405	464	460	475	200	525
Gifts	57	50	50	3 000	50	50	50
.Miscellaneous	714	557	657	700	750	800	850
Subtotal	3,250	3,881	4,081	4,210	4,375	4,550	4,725
Restricted .Investments .Gifts, Grants and Contracts .Miscellaneous	2,349 2,257 733	2,379 2,100 800	2,600 1,800 850	2,625 1,800 875	2,650 1,800 900	2,675 1,800 925	2,700 1,800 950
Subtotal	5,339	5,279	5,250	5,300	5,350	5,400	5,450
Federal Grants and Contracts	12,947	16,384	17,281	20,945	20,155	19,726	16,645
Gross Income	205,025	230,512	258,441	303,281	321,921	341,649	364,083
Less Expenses of Auxiliary and Bureau Activities	(65,933)	(73,197)	(622,62)	(85,626)	(93,266)	(101,280)	(110,345)
Net Funds Provided	139,092	157,315	178,662	217,655	228,655	240,369	253,738
							10

THSON IAN ATION OF C PROJECTED	NOI	FUNDS	FY 1986
AP FY	SMITHSON IAN INSTITUTION		

(\$000)	FY 1980	PROJECTED T	FY 1980 PROJECTED THROUGH FY 1986	986		Tab	Table 2(1)
APPLICATION OF OPERATING FUNDS	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
Science Federal Salaries and Expenses	39,322	43,234	46,507	49,398	50,661	51,659	53,483
-Program and Administrative*	427	282	249	261	250	258	266
-Auxiliary Activities .Unrestricted Special Purpose	1	1	1	t	1	ı	1
-Bureau Activities	1,090	1,197	1,351	1,426	1,495	1,569	1,646
-All Other Restricted	1,740	997	1,007	1,008	1,044	1,081	1,812
Federal Grants and Contracts	12,495	16,008	17,066	20,745	19,955	19,526	1,469
Subtotal	909'95	63,271	67,487	74,171	74,799	75,539	75,121
History and Art	,						
.Federal Salaries and Expenses .Unrestricted General	17,856	19,786	21,465	23,439	24,072	25,214	26,019
-Program and Administrative	629	652	635	649	629	675	889
-Auxiliary Activities .Unrestricted Special Purpose	I	•	1	1	1		ı
-Bureau Activities	632	781	827	819	858	968	935
-All Uther Restricted	4,583	532	587	545 3 165	573	601	629
Federal Grants and Contracts	103	25	25	25	25.25	25	25
Subtotal	26,856	25,121	26,658	28,642	29,466	30,758	31,779
Public Service Federal Salaries and Expenses	2,302	2,580	2.786	2,883	2.974	3.051	3.156
.Unrestricted General							
-Program and Administrative -Auxiliary Activities	619	750	778	814	854	899	944
Unrestricted Special Purpose				601.0	+C1 (01	100,01	161611
-Bureau Activities -All Other	152	1 1	1 1	1 1	1 1	1 (	ı
Restricted	27	22	25	25	25	25	25
rederal Grants and Contracts	29	52	15	1			-
Subtotal	12,570	12,944	12,201	12,825	14,007	14,576	15,322
*Net of SAO Overhead Recovery							11

NO	FUNDS	FY 1986
SMITHSONIAN INSTITUTION	APPLICATION OF OPERATING	FY 1980 PROJECTED THROUGH

(000\$)	FY 1980	PROJECTED T	FY 1980 PROJECTED THROUGH FY 1986	36		Та	Table 2(2)
APPLICATION OF OPERATING FUNDS	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
Museum Programs Federal Salaries and Expenses	8,396	9,368	10,354	12,883	13,264	13,690	13,994
-Program and Administrative -Auxiliary Activities -Inrestricted Special Durnose	277	262 1,065	278	291	304 1,495	317	330
-Bureau Activities	84	63	65	42	48 11	53	58
.Restricted .Federal Grants and Contracts	140	519	10	10 25	12 25	13	13
Subtotal	966'6	11,303	12,046	14,630	15,159	15,693	16,169
Special Programs Federal Salaries and Expenses	2,106	5,734	908*8	19,879	16,877	12,944	12,234
-Program and Administrative -Auxiliary Activities	536	593	619	580	562	545	521
.Unrestricted Special Purpose -Bureau Activities	(6)	,	1	ı		-	
-All Other Restricted	649	3,114	3,221	3,810	3,910	3,960	4,010
. Federal Grants and Contracts	159	274	150	150	150	150	150
Subtotal	3,479	806,6	12,874	24,555	21,660	17,738	17,069
Associates Programs Federal Salaries and Expenses		ı	ı	ı	ı	1	1
-Program and Administrative	282	271	285	300	315	330	347
-Auxiliary Activities .Unrestricted Special Purpose	38,677	43,679	49,011	53,740	59,148	65,449	72,553
-Bureau Activities	16	10	10	10	10	10	10
-All Other Restricted	7	ť	F	1	ı	ı	ı
Federal Grants and Contracts	41	27		1 1		1 ,	
Subtotal	39,038	43,987	49,306	54,050	59,473	62,789	72,910
							12
			-				

	ION	FUNDS	FY 1986
SMITHSON IAN INSTITUT APPLICATION OF OPERATING FY 1980 PROJECTED THROUGH	SMITHSONIAN INSTITUTION	APPLICATION OF OPERATING	PROJECTED THROUGH

(000\$)	FY 1980 PRO.	PROJECTED TI	FY 1980 PROJECTED THROUGH FY 1986	98		Ta	Table 2(3)
APPLICATION OF OPERATING FUNDS	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
Business Management Federal Salaries and Expenses	1	-	-	ı	ı	-	
-Program and Administrative -Auxiliary Activities	14,616	16,721	18,422	- 18,925	- 19,855	20,905	21,985
.Unrestricted Special Purpose -Bureau Activities	1	,		1	I	1	-
-All Other Restricted Federal Grants and Contracts	f 1 1	· •	1 1	1 1	1 1	1 1	1 1
Subtotal	14,616	16,721	18,422	18,925	19,855	20,905	21,985
Administrative, Financial and Technical							
Federal Salaries and Expenses Unrestricted General	7,781	8,835	9,876	10,344	10,526	10,714	10,905
-Program and Administrative* -Auxiliary Activities	337 359	469 114	597 184	78 <mark>8</mark> 193	1,064	1,295	1,525
.Unrestricted Special Purpose -Bureau Activities	•	ı	ı	ı	ı	,	ı
-All Other . Restricted	90	78	48	21	21	21	21
.Federal Grants and Contracts	30	6 -		07	C7 -	67	67
Subtotal	869,8	9,534	10,765	11,374	11,837	12,266	12,697
Facilities Services Federal Salaries and Expenses	29,734	33,473	37,092	42,165	43,849	45,255	47,488
-Program and Administrative	803	842	964	1,044	1,135	1,251	1,354
.Unrestricted Special Purpose			ı	ı	ı	1	•
-bureau Activities -All Other	93	12		1 1	1 [	1 1	1 1
Restricted. Federal Grants and Contracts.	1 1	1	!	1 1	1 1	1 1	1 1
Subtotal	30,630	34,327	38,056	43,209	44,984	46,506	48,842
*Net of SI Overhead Recovery							13

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 PROJECTED THROUGH FY 1986
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(\$000)	FY 1980	PROJECTED TO	FY 1980 PROJECTED THROUGH FY 1986	36			Table 2(4)
APPLICATION OF OPERATING FUNDS	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986
Inflation and Pay Requirements (Cumulative) Federal Salaries and Expenses							
-Necessary Pay	1	. 1	ı	1,700	3,500	5,400	7,400
-inflation (Nonpay Purchases)* -Supplemental	1 1	1 1	5,800	1,900 $11,800$	$\frac{3,800}{18,800}$	5,800 25,800	7,900
Subtotal	ı	1	5,800	15,400	26,100	37,000	49,100
Institutional Total Federal Salaries and Expenses Unrestricted General	107,497	123,010	142,686	176,391	188,323	199,527	216,379
-Program and Administrative -Auxiliary Activities Unrestricted Special Purpose	3,960 64,120	4,121 71,146	4,405 77,526	4,727 83,329	5,143 90,855	5,570 98,752	5,975 107,696
-Bureau Activities -All Other	1,813	2,051	2,253	2,297	2,411	2,528	2,649
Restricted. Federal Grants and Contracts	4,856	5,670	4,599	4,697	4,894 20,155	4,993 19,726	5,167
Gross Funds Applied	202,489	227,116	253,615	297,781	317,340	336,770	360,994
Less Expenses of Auxiliary and Bureau Activities	(65,933)	(73,197)	(622,67)	(85,626)	(93,266)	(101,280)	(110,345)
Net Funds Applied Before Transfers Federal Salaries and Expenses Unrestricted General Unrestricted Special Purpose	107,497 3,960 7,361	123,010 4,121 4,734	142,686 4,405	176,391 4,727 5,205	188,323 5,143	199,527 5,570	216,379 5,975
Restricted. Federal Grants and Contracts.	4,856 12,882	5,670	4,599 17,281	20,945 20,945	20,339 4,894 20,155	3,0/4 4,993 19,726	5,167 16,645
Net Before Transfers	136,556	153,919	173,836	212,155	224,074	235,490	250,649
*Except cost increases for utilities and Museum Special Programs sections respectively.		Center equi	Support Center equipment, which	are containd	are contained in Facilities and	ies and	
						1	
							14

NOI	FUNDS	FY 1986
SMITHSON IAN INSTITUTION	APPLICATION OF OPERATING	FY 1980 PROJECTED THROUGH

FY 1980
4,307 (4,323) 16
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2,021
4,397
נו
(1,861)
107,764 11,605 1,437 5,339 12,947
139,092



### SCIENCE

Science programs consist of the Museum of Natural History/Museum of Man, Astrophysical Observatory, Tropical Research Institute, Radiation Biology Laboratory, Chesapeake Bay Center for Environmental Studies, Air and Space Museum, Zoological Park, and the Fort Pierce Bureau. The Office of Biological Conservation, a small staff support office, is maintained by the Office of the Assistant Secretary for Science. Using administrative oversight provided by the Museum of Natural History, Science activities also encompass the efforts of the Center for the Study of Man.

The Office of Fellowships and Grants is also a part of the administrative responsibilities of the Office of the Assistant Secretary for Science, but its associated resources and activities (including the Fellowship and Special Foreign Currency Programs) are contained within the Special Programs chapter to provide consistency with the budget presentation to Congress.

Science program activities span basic research, publications, fabrication and operation of large scientific instruments, collections management, exhibits, and education. Each museum and research organization has its own particular emphasis and purposes and pursues its goals by various means and resources.

### Current Resources and Support

In FY 1980, total resources available to Science amounted to approximately \$58,800,000 and 1,651 full-time employees. Total funding consisted of approximately 67 percent federal appropriations, 21 percent federal grants and contracts, and 12percent nonappropriated unrestricted and restricted trust funds. A breakdown follows (before application of overhead recovery):

	FY 198	0
	Full-Time	Funds
Source of Funds	Employment	(\$000s)
Federal Salaries & Expenses	1 200	<b>\$</b> 70, 733
	1,290	\$39,322
Unrestricted trust	109	5,453
Restricted trust Federal Grants	23	1,532
& Contracts	229	12,495
Total	1,651	\$58,802

The sources of support vary markedly from organization to organization. For example, the Fort Pierce Bureau operates solely with restricted trust

funds, while the Astrophysical Observatory, because of its unique national and international position as a research leader, has better than half of its dollar and personnel resources associated with federal grants and contracts. Most of the balance of the Astrophysical Observatory's funding originates from direct federal appropriations, and a small portion (about 15 percent) stems from trust funds. The Tropical Research Institute and the Zoological Park, on the other hand, rely extensively on federal appropriations for maintenance of programs.

As is the case with other museums and galleries of the Institution, the Museum of Natural History and the Air and Space Museum conduct their basic exhibit, research, collections, and building services activities primarily with federal appropriations, but at the same time enjoy measured support from restricted or unrestricted trust sources, and from federal grant and contract work based upon their ability to obtain these funds.

### Future Year Prospectus

In FY 1986, trust fund expenses (restricted and unrestricted) may increase somewhat from their present level of \$7,000,000. There may be some increase in federal grant and contract work during the period, which will result in some added overhead recovery for general operations at the Astrophysical Observatory, since there is continuing interest on the part of the National Aeronautics and Space Administration in the capabilities of the Astrophysical Observatory to conduct selected research experiments related to the nation's space shuttle and satellite tracking programs. Increased federal appropriations of about \$14,200,000 will be required to fund programs and to maintain the quality of the Smithsonian's science operations.

Museum of Natural History/Museum of Man. While the appointment of a new director in FY 1980 is allowing for a new look at program directions for the Museum, basic efforts in research, exhibits, and collections management will continue to be emphasized. Substantial progress has been made in inventorying the collections, and it is anticipated that the major work will be completed by the end of FY 1983. In FY 1979 and FY 1980, a portion of the special appropriation provided by Congress was allotted to the Museum to undertake inventory efforts on collections most highly valued as well as objects destined for transfer to the Museum Support Center. It is estimated that more than 400,000 inventory shelf records were generated in FY 1980, and that the total computerized inventory base now consists of about 2,000,000 records. Much of the project to date has focused on the ethnology-archaeology collection, and by the end of FY 1980 this work was 95 percent completed. Inventories on the carnivore and large mammal collection are moving along rapidly and work on the fossil fish collection and the Burgess shale collection is ahead of schedule. Progress has been recorded on the mollusk collection, and the initial inventory of the gem and mineral collection is complete and was recently verified. Fourteen pilot projects designed to prepare other collections for inventorying in future years are underway, or are about to be initiated. These include the massive collections of plants, insects, marine and fresh water invertebrates.

Funds also will be needed in future years for the maintenance and updating of the collections inventory at the Museum and at the Support Center. This will be a continuing activity and resources will be required to sustain

these efforts. Appropriate staffing of the Museum Support Center will begin in FY 1983 and will continue incrementally through the planning period. Particular attention will be paid to providing the necessary technical staff, including conservation specialists at the Center and the Mall Museum, to maintain properly the collections and associated records.

The construction of the Museum Support Center will allow over a period of years the return of collection space to public use, primarily for exhibits. Over FY 1981-82, the Museum will be establishing temporary exhibition space for such outstanding traveling shows as the Gold of Eldorado, as well as in-house produced exhibitions. The current Bicentennial hall is being reworked into a special area designated to such temporary exhibitions. As part of the long-range exhibition plan, in October 1980, the new coral reef exhibit was opened in the whale hall. This exhibit, a major undertaking, displays a living coral reef in a 2,500-gallon tank. In 1981, the Museum will also open in the whale hall an exhibit which will treat the exciting discoveries of new life forms that have been made at great depths along the Galapagos rift.

Research results continue to be published through the Institution's series publications, books, articles, and monographs. The popularity of the Handbook of North American Indians has far exceeded expectations, with the first two volumes on Indians of California and the Northeast selling out within a few months of their release dates. Both have had second and third printings, for a total now of 25,000 of each book in print. The first of two volumes on Southwest Indians was published in spring 1980, and the Subarctic volume has been recently submitted to the printer. The volume on Indians in Contemporary Society will be published in FY 1981. Some additional resources to cover increased production costs may be necessary later in the planning period before the entire twenty volumes can be completed (estimates place this need at approximately \$100,000), but further study is necessary before a request is made.

Under its new director, the Museum of Natural History is exploring the prospects for more program-oriented research work in the future. The rapid degradation of the natural environments of the tropics as they undergo accelerated development is a major concern, and this is being seriously considered by the Museum as one area for potential added research attention. An effort to establish a program in tropical and desert studies may take place in FY 1983, along with some added emphasis in FY 1982 and future years on the Anthropology program as it relates to the study of man and his environment.

The Museum of Man now exists in a conceptual fashion only and within the facilities and administrative framework of the Museum of Natural History. As a museum, it has no resources, building, or activities of its own independent of the Museum of Natural History, except as reflected in the operations of the Center for the Study of Man. In future years, the Institution plans to organize several of its Man-related disciplines and endeavors into a more meaningful operation, and reasons for highlighting the concept of a separate Museum of Man are important to attaining certain institutional goals. For several years the Institution's administration has felt the need to create an entity which would coalesce and promote interdisciplinary research and

exhibitions in Man-related endeavors. Such activities are becoming increasingly important as a means of extending the popular understanding of alternatives associated with Man's further advancement of scientific, cultural, and civilizing processes. A separate identity for the Museum of Man helps keep this need visible for the Institution and to its various public audiences and, in FY 1982, the Institution is seeking \$125,000 for activities which will help create a better scholarly setting.

The present activities of the <u>Center for the Study of Man</u> include the Anthropological Film Center (NAFC) program and the Research Institute on Immigration and Ethnic Studies (RIIES) program. Research interests of RIIES cover the specialized area of examining the new immigration; i.e., the immigration (patterns and effects) to the U.S. and its extraterritorial jurisdictions since 1965. In FY 1979, the program concluded a phase of outreach and symposium sponsorship. Beginning in FY 1980 and continuing over the next five years, RIIES will focus on research, writing and assessment, seminars, and reports on the new immigration. An exhibit on the subject is expected to be open in FY 1986. The NAFC program responds to the worldwide need to prepare researchable film records of disappearing cultures and their associated human behavior patterns. A series of projects with Third World nations is yielding important films and research data.

Astrophysical Observatory. Over the next five years, SAO will concentrate available new resources on two major questions of astronomy: (1) the origin and evolution of galaxies, and (2) the origin and evolution of stars like the Sun, including the Sun itself. During the 1980's these two areas will be particularly ripe for investigation. The study of galaxies should bear significant results because of the increasing availability and reliability of large and sensitive instruments, such as the Observatory's Multiple Mirror Telescope (MMT) located at Mt. Hopkins, Arizona, and X-ray imaging detectors. The study of the Sun and similar stars is important because of the necessity to understand their close relationships to planetary sciences, earth sciences, and biological sciences. During the planning period, an effort will be made to increase selectively the research staff to take advantage of these opportunities. Particular emphasis will be given to X-ray astronomy in an effort to capitalize on the wealth of information provided by the Einstein Space Laboratory (the orbiting HEAO-2 X-ray telescope). In addition, a strengthening of the solar physics program is planned through phasing of additional resources into the Langley-Abbot program.

There are continuing needs which the Observatory hopes to address successfully during the planning period. One of these is to establish ways to channel more resources to its investigators for small independent research and development projects. Not enough flexible funds are currently available in the Observatory's research base. A second is to strengthen its activities in atomic and molecular physics and in theoretical astrophysics.

The MMT is now being used routinely about 75 percent of the available time for scientific observations. The recorded observations are quite satisfactory. The remaining time is used for engineering adjustments and testing. The telescope is still projected to be fully operational by mid-FY 1981.

The guide alignment scope functions better than anticipated. The primary optics are working very well with no obvious aberrations. As one example of the instrument's contributions to astronomical research, two scientists have used the MMT to discover an exceedingly hot, rapidly pulsating star that is exhausting its fuel supply very quickly. Because of this, the star is "aging" unusually fast and the scientists expect to see physical changes within a few years, compared to the typical astronomical time scales measured in millions or billions of years. Another case would be the recent discovery of what appears to be a second example of what is known as a "gravitational lens effect" in space. Optical gravitational images made during the course of investigations in FY 1980 revealed the presence of what seemed to be a "triple quasar". Spectroscopic observations using the MMT confirmed that the three objects were probably the same distant quasar distorted by some unseen object between quasar and observers.

Facilities development and related management needs, primarily for Mt. Hopkins, will be sought over this period. Of particular importance is the upgrading and improvement of the road from the base camp to the summit to assure safe passage for scientists, the general public, and others. Related to this is obtaining the necessary resources for passenger vehicles and assorted road maintenance equipment. Plans are also developing for a major improvement to base camp facilities at Mt. Hopkins, and this is more fully explained in the Facilities chapter of this document.

Tropical Research Institute. The Institute is the nation's leading biological research center for advanced tropical studies. It is located in the Republic of Panama. Its goals are to conduct research on basic tropical biological processes, support advanced training in tropical research, support visiting scientists at work in related research topics, and promote conservation efforts in the tropics through educational programs.

The Institute maintains a series of land holdings, including the world famous Barro Colorado Island, as field sites for tropical studies. Under the agreement of the Panama Canal Treaty, the Institute is designated as the custodian of the Barro Colorado Nature Monument (BCNM), which includes not only the Island but four adjacent peninsulas in Gatun Lake. This past year much time has been spent in beginning to implement the administrative changes associated with this custodianship. An upgrading of the security force has occurred and continues through personnel training and through strengthening and extending patrol coverage of the land area. Fencing and posting of Gigante and Pena Blanca areas of the BCNM has been completed. Overflights have been established on a biweekly basis to help prevent homesteading, poaching, slash and burn agriculture, and other detrimental activities. Communications systems are being improved. Continued emphasis will be necessary in the years ahead in developing support resources to meet the custodianship and administrative demands of the BCNM.

In future years, the Institute will continue to focus its scientific research capabilities on understanding the biological, ecological, and behavioral processes on which tropical ecosystems are organized. The longheld concept of the tropics as a benign, unchanging and nonseasonal environment has finally lost its credibility, in part as a result of the many excellent

studies conducted at the Institute. These studies cover such topics as the use of the highly developed sonar and hearing abilities of bats; the effects of tree falls and similar disturbances in maintaining the character of tropical forests; the population, distribution, and importance of various species of animals and plants to the forests' continued existence; and patterns of selection, competition and parental care behavior in marine life.

There is another important factor at work which lends a growing importance to the presence in Panama of the Institute and its research capabilities. The whole issue of the construction of a sea level canal through Panama is again being discussed. The potential effects of linking the two oceans at sea level will be biological as well as economic. The Institute's studies have identified a number of ways important ecological relationships could be affected. For example, research shows that a number of organisms that attack living coral are present in one ocean and not in the other. Where these organisms are absent so are some of their predators and other coral symbionts that limit their depredations. Coral is an important marine structure, biologically, economically and commercially. The research implies that linking the two oceans would not only introduce new enemies to living reef areas, but would introduce them in the initial absence of their controlling mechanisms. Widespread long-term comparative studies need to be done to provide the basis for making judgments about the consequences of this kind of environmental modification. The Institute is in the position to provide much of the necessary scientific support and information on interoceanic interactions as well as baseline data on many of the plants and animals inhabiting both oceans.

Selective research staff growth is anticipated over the next five years in ethology, marine sciences, and freshwater biology. In recent years, and related to its research and conservation efforts, the Institute has promoted its educational services and programs. These will need to continue to be strengthened and additional resources are planned for publications, audiovisual and other materials, meetings and other services to help achieve generally a greater level of public environmental awareness.

In addition, support and administrative resources will be necessary for maintaining the widely scattered physical plant facilities. The upkeep and repair associated with buildings in a tropical environment, many of which are over 50 years old, is a substantial enterprise. More resources are necessary and will be sought. Further information regarding facility repair and improvement funding is contained in the Facilities chapter of this document.

Radiation Biology Laboratory. The Radiation Biology Laboratory will continue to study solar radiation and its influence on plants and other living organisms, emphasizing research in regulatory biology and environmental biology. Additional technical support will be sought for senior staff scientists who have been functioning for several years with inadequate levels of support and technical staff.

The Laboratory studies the mechanisms by which light regulates enzyme activity, alters the readout of genetic information, and interacts with membrane systems. Detailed molecular descriptions of these processes are being pursued. For example, a binding site on the regulatory pigment phytochrome

has been shown to be sensitive to flavins. Utilizing this information a new purification procedure has been developed enabling faster and greater yields of the pigment to be obtained.

The effects of varying spectral quality and ultraviolet radiation on plants is not definitely known, but this information is of significant scientific interest. As part of its environmental biology program, the Laboratory has developed an ultraviolet scanning radiometer which has improved the accuracy of taking various ultraviolet measurements. In addition, Laboratory developed equipment is being used at the Tropical Research Institute to measure spectral quality of solar energy transmitted through the tropical forest canopy on Barro Colorado Island. Similar measurements are being taken at the Institution's Chesapeake Bay Center to research the transmission of biologically effective radiation in the Rhode River estuary. Research into these areas reflects the Institution's continuing interest about the influence of spectral quality of solar radiation on growth and development. Understanding the rhythms and responses of plants to sunlight, especially under environmentally stressed situations, will be of increasing importance in future years.

The Institution will continue to consider alternative locations for the Laboratory. It is currently housed in leased quarters in Rockville, Maryland, and the lease (including available options) expires in 1990. Relocation to a nonleased site is the preferred solution in order to provide, over the long run, quality research facilities including a glass house and controlled laboratory space for experimenting with plant growth. The Laboratory has not had adequate facilities for this purpose for the last ten years. A small glass house with limited capabilities may be installed by the General Services Administration on the leased property in the next two or three years as an interim measure. The Laboratory is now using a small greenhouse facility on loan from the National Naval Medical Center in Bethesda, Maryland. Over the years, however, the research programs have been hampered by the lack of a fully equipped scientific facility. Correcting that situation and providing a permanent relocation are long-term objectives.

Air and Space Museum. Over the next five years, the Museum expects to bring its education, research, and exhibits activities more into balance. Using its extensive biographic files, technical plans, and artifacts, present levels of historical research on aviation and space flight will be strengthened. The Center for Earth and Planetary Studies will seek to expand its efforts in arid land remote sensing, comparative planetology, lunar geology and photo-imaging. A reorganization of the Museum's departments and offices took place in FY 1980 and should assist in achieving these goals. The new department of Space Sciences and Exploration has been formed to allow the museum to exploit through its research and exhibit programs the historical and technical achievements of not only the development of flight and of the manned space program, but new findings in the areas of astronomy and other studies. The reorganization is geared to lend impetus to the Museum's research programs through development of collaborative publications, scholarly symposia, and journal writing projects.

The education programs of the Museum have been enhanced this past year

through the completion of the new teacher resource and briefing facility. This facility makes available a wide variety of aerospace instructional materials for teachers to take back for use in their classrooms, and provides space for a series of briefings, lectures, and demonstrations for visiting teachers and their students. For the most part, the Museum's education program is well-supported, but some increases will be sought in future years to expand publications, tours, and other outreach aspects of operations.

Collection inventory efforts are projected to be completed by the end of FY 1981. This project, undertaken two or more years ago, has reduced storage requirements, created savings in curatorial time, and eliminated some duplications and gaps in the collections. With the completion of the inventory, the Museum will direct efforts to building up its archival library of microfiche information on the collections, and to establishing video-disc systems for the photocollections.

The Museum building is now five years old. It has accomodated 30,000 visitors daily in a remarkably good fashion. Items, however, do wear out simply because of overuse (e.g., revolving doors, water foundation mechanisms, restroom valves, etc.). These are being replaced on a routine basis, but it is imperative that sufficient resources be sought to maintain the building over time in a safe, attractive state for the visitors. The effect of ten million visitors annually will become more apparent and distressing, and the aging process of the building itself will require increased manpower, furnishings (such as carpeting), and equipment. Some further facilities upgrading will be required at Silver Hill, and these projects are described in the Facilities chapter of this document.

Chesapeake Bay Center for Environmental Studies. The Center's environmental research program is designed to develop an understanding of how man's activities affect ecological systems, particularly where alterations in land use are involved. To this end, the Center has constructed, with grant and contract funding, a system for the measurement of the quality of land runoff and its effects on estuarine waters. This is the only long-term watershed research program in the coastal United States, and the Bay Center has an excellent location (2,600 acres adjacent to the Bay and the Rhode River) and site characteristics for this kind of environmental research. A stable appropriations base for this activity will be sought over the planning period and is of high priority.

Long-term studies of how large-scale changes in land use affect plant and animal communities will continue to be emphasized over the planning period. It is anticipated that some staff additions and equipment support will be made to increase the estuarine and ecological research efforts of the Center during the next five years, and particularly strengthen the data processing capabilities of the Center.

Educational research and public information activities are aimed at improving the quality and effectiveness of outdoor-centered education and achieving maximum utilization of the Center's research findings. Over the next five years, the Center plans to expand its educational research activities, including the publication and dissemination of current studies on how non-formal education institutions can improve the utilization of their facilities for public education purposes. Some professional staff additions will be necessary for this program over the next several years.

The Center has accomplished the first and second phases of its six-phase plan for facilities development with the completion of the new shop building in early FY 1981. The first phase, consisting of a laboratory wing, was completed in FY 1980. Construction funds will be sought for the remaining development, a combined administrative and research facility and a small dormitory for students and visiting scientists. More information on planned facilities is contained in the Facilities chapter of this document.

Zoological Park. Over the planning period, the Zoological Park will be developing its animal behavior and medical research programs. Field activities in selected neo-tropical sites will continue to study the differences and similarities in eco-systems. These studies emphasize the behavioral ecology of wildlife, population dynamics, and inbreeding in natural populations. A fundamental research program on communication in the great apes is planned. Research will be expanded in the areas of bacteriology, virology, and parasitology with the aim of improving the health and longevity of exotic animals in captivity, perhaps through the development of vaccines and other treatments not now available. The Zoo plans to establish a comprehensive automated information system on species identification, collections management, pathology, and other medical information to be used for future research and statistical analysis. The development of Monkey Island and Gibbon Island and the renovation of the Small Mammal and Reptile Buildings, with their more natural settings, will result in meaningful educational experiences for the visitor. In addition, the Aquatic Mammal facility will be completed in future years and will exhibit aquatic mammals, birds, reptiles, and fish.

Another objective is the development of a collection which is essentially stable and self-sustaining in order to minimize further taking from the wild. Reproduction efforts in rare and endangered species will continue; e.g., the long-term breeding and research concerned with the preservation of the golden lion tamarin. Basic research on the breeding and behavior of rare South American wild dogs will continue as will research on temperatetropical migratory birds. Breeding of the giant panda is a continuing goal.

There will be increased emphasis on public orientation and education activities directed at the reading-age visitor which will provide a variety of learning opportunities. To achieve this, new interpretive materials must be developed for existing and planned exhibits.

Construction and renovation work remaining at Rock Creek and at the Front Royal Conservation Center over the planning period are detailed in the Faciliites chapter of this document.

Fort Pierce Bureau. The Fort Pierce Bureau conducts research in marine biology with emphasis on life history studies and the systematics of selected marine organisms of the Indian River, Florida, and the nearby continental shelf. The Bureau is supported totally with trust funds. Over the next five years, research at this Bureau will be administered through the Museum of Natural History to extend cooperative research endeavors. It is expected that manpower over the next five years will remain stable.

### Science Resource Growth

Overall, Science resources may approach \$79,000,000 in FY 1986 from FY 1980 levels of about \$58,800,000. Scientific research grants and contracts are expected to increase from about \$12,500,000 in FY 1980 to about \$16,400,000 in FY 1986. Restricted and unrestricted support of Science activities are expected to increase moderately from FY 1980 levels. The balance of funding will be sought through the appropriations process, principally for operations and programs of the Natural History Museum (for operating resources associated with the Museum Support Center; and for research, education, and exhibit activities), the Tropical Research Institute (covering expenses related to implementing the Panama Canal Treaty and strengthening the education and research programs), the Astrophysical Observatory (including requirements for strengthening of operations at Mt. Hopkins), the Chesapeake Bay Center (for watershed and other research), and the Zoo (for operations and staffing associated with new facilities at Rock Creek and the Conservation Center).

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	7	1980	FY	1981	F	1982	Ŧ	1983	FΥ	1984	FΥ	1985	FΥ	1986
SCIENCE	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)
ASSISTANT SECRETARY FOR SCIENCE														
FEDERAL SALARY & EXPENSES	7	301	7	332	~	340	7	342	7	342	7	342	7	342
UNRESIRICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	78	00	51	00	52	00	52	00	52	00	52	00	52
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	00-6	0 1 94 173	00-0	30 30 88 204	00-6	32 69 235	000 m	34 41 270	0000	34 46 311	000m	34 51 358	0000	0 34 56 412
-SUBTOTAL	=	647	-	705	1-	728	10	739	10	785	10	637	0-	968
MUSEUM OF NATURAL HISTORY/MUSEUM OF MAN														
FEDERAL SALARY & EXPENSES	505	14462	202	15654	202	16733	528	17811	538	18103	546	18350	554	18661
-AUXILIARY ACTIVITY	-0	78	-0	45	00	27	00	31	00	20	00	20	00	20
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	-	0	_	0	-	0	-	0	_	0	_	0	
-ALL OTHER	0 - 6	623 479	0 - 6	433 633	0 - 8	313	0 - 5	114	0 - 6	270	0 - 6	270	0 - 6	107 245
FEDERAL GRANIS & CUNIKACIS -SUBTOTAL	545	16813	546	17553	544	18399	560	າ   ທ	559	9 9	567	19436	575	o   o
ASTROPHYSICAL OBSERVATORY														
FEDERAL SALARY & EXPENSES	73	5028	77	5358	18	5901	84	6285	87	6535	06	6785	94	7075
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	79	2217	75	2654	75	2897	75	3147	75	3323	75	3522	75	3733
UNRESTRICTED SPECIAL PURPUSE -8UREAU ACTIVITY -ALL OTHER	00	431	00	14 83	00	14	00	15	00	15	00	15	00	15
RESTRICTED FEDERAL GRANTS & CONTRACTS	171	123 10636	215	69 12 <b>9</b> 72	202	14643	213	136 18485	213		208		236	136
-SUBTOTAL	324	18437	367	21150	359	23599	373	28144	376	28100	374	28037	406	25409

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FY	1980	F	1981	7	1982	F	1983	F	1984	7	1985	F.	1986
SCIENCE	FT	(000)	FTEMPL	(000) \$	FTEMPL	(000)	FTEMPL	(000)	FT	(000)	FT EMPL	(000)	FT EMPL	(000) \$
TROPICAL RESEARCH INSTITUTE														
FEDERAL SALARY & EXPENSES	74	2257	85	2742	86	3003	95	3348	96	3538	100	3700	105	3996
UNKESIKICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	54	0.0	59	0.0	61	0.0	64	00	67	0.0	70	0 0	73
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	24	0	62	0	61	0	67	0	70	0	75	0	80
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	127 50 0	•••	39 350	000	450	000	0 00	000	0 4 0	000	0 4 0	000	000
SUBTOTAL	92	2512	87	3253	88	3170	97	3509	100	3715	102	3885	107	4189
RADIATION BIOLOGY LABORATORY														
FEDERAL SALARY & EXPENSES	49	1837	49	1992	51	2266	54	2420	99	2531	57	2598	57	2705
UNKESTRICTED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	0 0	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE	0	0	0	0	0	0	0	0	0	0		0	0	0
-ALL OTHER RESTRICTED	0 - 0	22	0 -	33	00	233	00	18	00	4 <del>1</del> 0	00	4 1 0	00.	18
FEDERAL GRANIS & CONTRACIS -SUBTOTAL	53	2045	51	32 2058	52	2321	55	25	57	25	S	25	58	2752
NATIONAL AIR & SPACE MUSEUM														
FEDERAL SALARY & EXPENSES	222	5597	222	6432	222	6801	236	7212	237	7342	238	7342	240	7687
ONRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	19	00	20	00	000	00	00	00	000	00	<u>0</u> 0	00	50
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	22	1048	23	1104	23	1258	23	1313	23	1379	~	1448	23	1520
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	- 04	226 251 71	004	690 88 108	v O 4	50 50 117	000	52 52 117	N O N	/58 , 55 123	v 6 4	796 58 129	000	61 61 135
-SUBTOTAL	258	7212	255	8434	254	8919	266	9426	267	9667	268	9783	270	10248
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SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	F	1980 A	AND PRC	PROJECTED	THROUGH	<b>→</b>	1986							
	FΥ	1980	FY	1981	7	1982	FΥ	1983	FY	1984	FΥ	1985	<b>Y</b>	1986
SCIENCE	FTEMPL	(000) \$	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)
CHESAPEAKE BAY CENTER														
FEDERAL SALARY & EXPENSES	2	744	22	844	23	1152	26	1279	27	1336	27	1336	34	1601
GENERAL ADMINIST ACTIVITY	m o	137	<b>по</b>	77	<b>по</b>	86	mо	91	<b>по</b>	96	mо	101	<b>е</b> 0	106
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER		15	00	16	00	17	00	30	00	30	00	90	00	30
RESTRICTED FEDERAL GRANTS & CONTRACTS	720	112	700	90	0 80	678	25	650	25	650	25	650	20	009
-SUBTOTAL	33	1331	32	1814	34	1949	54	2050	52	2112	55	2117	57	2337
NATIONAL ZOOLOGICAL PARK														
FEDERAL SALARY & EXPENSES	327	8521	327	9234	328	9558	342	9958	352	10191	362	10463	369	10673
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	-0	38	0	30	00	80	00	800	•	<b>80</b> 0	00	80	00	80
-		c	•	c	0	0	0	O	0	0	0	0	0	0
-ALL OTHER		152	00	54	00	57	00	58	00	58	00	64	00	756
FEDERAL GRANTS & CONTRACTS	- ო ——	96	-	263	<del>-</del>	167	n m	150	o m	150	п		m	150
-SUBTOTAL	331	8831	329	9607	329	9829	345	10218	355	10456	365	10739	372	11641
CENTER FOR THE STUDY OF MAN														
FEDERAL SALARY & EXPENSES		575	12	646	12	743	12	743	12	743	12	743	2	743
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY		0.0	00	00	00	00	00	00	00	00	00	00	00	00
				•	•	•	•	•				,	,	,
-BUREAU ACTIVITY			0 0	00	00	00	00	00	00	00	00	00	00	00
RESTRICTED & CONTRACTS		11 20	-0	38	00	17	00	20	00	15	00	15	00	20
-SUBTOTAL	12	608	13	694	12	775	12	778	12	778	12	778	12	778

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FY	1980	FΥ	1981	Ε¥	1982	F	1983	FY	1984	FΥ	1985	FY	1986
SCIENCE	FT	(000)	FTEMPL	\$ (000)	FTEMPL	(000)	FT	(000)	FT	(000)	FTEMPL	(000) \$	FTEMPL	(000)
FORT PIERCE BUREAU														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	•	0
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	0000	366	0000	0 0 649 0	0000	069	0000	724	0000	0 760 0	0000	0 0 0 0 0 0 0	0080	0 0 836 0
-SUBTOTAL	8	366	89	649	8	069	8	724	8	760	8	799	В	839
SCIENCE-SUMMARY														
FEDERAL SALARY & EXPENSES	1290	39322	1306	43234	1315	46507	1384	49398	1414	50661	1439	51659	1472	53483
	98	2623	82	2928	80	3141	80	3403	80	3568	80	3775	000	3994
-BURESIMICIED SPECIAL PURPUSE -BURESIMICIED SPECIAL PURPUSE	22	1090	23	1197	23	1351	23	1426	23	1495		1569	- 2	1646
RESTRICTED FEDERAL GRANTS & CONTRACTS	23	1532	12 270	1553 16008	11 257	1307	10	1333	10	1394 19955	10	1952	285	1469 16445
-101AL	1651	58802	1699	65917	1691	70379	1780	77313	1799	78117	1819	79056	1875	78849
*LESS SAD OVERHEAD RECOVERY PROGRAM & ADMINISTRATIVE	0	-2196	0	-2646	0	-2892	0	-3142	0	-3318	. 0	-3517	0	-3728

### HISTORY AND ART

History and Art at the Smithsonian is defined to embrace the following organization units: the Museum of American History, which is primarily concerned with American history and the history of technology; the Museum of American Art, which is the Smithsonian's museum devoted to the history of American art along with its subsidiary, the Renwick Gallery, which displays decorative arts and crafts; the Portrait Gallery, which studies American biographic history through the various media of portraiture; the Hirshhorn Museum and Sculpture Garden, which is the Smithsonian's museum of modern art; the Freer Gallery of Art, which covers the broad fields of Near and Far Eastern art; the Cooper-Hewitt Museum, which focuses its program on design and holds one of the major decorative arts collections in the world; the Archives of American Art, the nation's largest repository of documentary materials pertinent to the study of American art history; the Joseph Henry Papers Project, which edits and publishes the papers of Joseph Henry, the first Secretary of the Smithsonian and a leading scientist in the mid-1800's; the Museum of African Art, which deals with the traditional art forms of the Continent of Africa; and the Office of the Assistant Secretary for History and Art, which provides overall guidance and coordination. The resources and programs of the Office of American and Folklife Studies are also administered by the Assistant Secretary for History and Art, as are the Major Exhibitions Program, the Trust Fund Acquisitions Program, and the Major Acquisitions Program. These activities are contained in the Special Programs chapter to provide consistency with the FY 1982 budget presentation to Congress.

Each of the History and Art museums has its own physical plant, its own distinctive collections, and its own specialized staff, and, more importantly, its own character and sense of purpose. Although the Freer Gallery of Art opened more than 50 years ago, the preponderant activity in History and Art at the Smithsonian has been developed largely over the last seventeen years, in most instances following specific enactments by the Congress. The budgets for History and Art activities have grown at a measured pace, and most of the bureaus are now reasonably well funded to carry out at least the basic charge each has been given.

### Current Resources and Support

Current funding for History and Art activities consists of a mixture of appropriated federal funds, infrequent federal grants and contracts, nonappropriated restricted trust funds, and allocations of nonappropriated unrestricted trust funds. In FY 1980, resources available to History and Art programs amounted to approximately \$26,900,000 and 716 full-time positions. About 65 percent of the dollar figure and 89 percent of the personnel represent federally

appropriated support for basic exhibit, research, education, and administrative activities of the museums and galleries. Most of the balance consists of resources associated with unrestricted trust operations, with only a small portion originating in federal grant and contract work. A breakdown follows:

	FY 19	980
Source of Funds	Full-Time Employment	Funds (\$000s)
Federal Salaries  § Expenses Unrestricted trust Restricted trust Federal Grants	638 33 44	\$17,856 5,894 <u>1</u> / 3,003
& Contracts	1	103
Total	716	\$26,856

Unrestricted trust fund support is concentrated primarily in the Cooper-Hewitt Museum, Museum of American Art, and the Museum of American History.

Restricted trust fund support is largely directed to the operations associated with the Freer Gallery of Art, the Cooper-Hewitt Museum, and the Archives of American Art. Only minor amounts of grant and contract work are present in the Cooper-Hewitt Museum, Museum of African Art, and Portrait Gallery.

Generally, the larger of the History and Art bureaus -- the Museum of American History, the Museum of American Art, the Hirshhorn Museum and Sculpture Garden, the Portrait Gallery -- are supported predominantly with federal funds. Their exhibition, research, collections management, and building operations comprise their major expenses. Each of these museums, however, has small amounts of trust funds (at most about 7 percent of the total resources) made available by donors for specific purposes and from proprietary activities (bookstores, museum shops, cafeterias and the like) on their respective premises. These latter funds are used for a variety of program purposes.

The smaller History and Art bureaus -- the Freer Gallery of Art, Cooper-Hewitt Museum, Museum of African Art, and Archives of American Art -- work with more evenly mixed financing. Most of the Freer's principal programs are financed by the income from a restricted endowment fund established by Mr. Freer's will; federal funds support the costs of protecting and managing the collections and building, and general administration. The Cooper-Hewitt Museum receives an annual allocation of Smithsonian unrestricted trust funds to help support its programs. Beginning in 1979, federal funds supported a small portion of the exhibit program as well as the costs of maintaining and protecting the building and collections and a share of administrative costs. In addition, the Cooper-Hewitt Museum raises in excess of a million dollars annually to support its exhibitions and related educational activities. The Museum of African Art raises from \$150,000 to \$200,000 per year from private sources to finance its higher education activities. The Archives of American Art's Board of Trustees raises between \$300,000 and \$400,000 each year to support about one-third of the Archives' program.

This figure contains institutional special purpose expenditures in FY 1980 for the purchase of the Gilbert Stuart portraits for the Portrait Gallery.

In addition to this general pattern of fund availability and use, the History and Art units are eligible for allocations from the special trust fund Collections Acquisition, Scholarly Studies, and Education Program, and from the Special Foreign Currency Program. They also enjoy the presence of preand postdoctoral research fellows selected competitively through the Smithsonian's fellowship awards program and funded with nonappropriated unrestricted trust funds.

### Future Year Prospectus

Some of the world's richest collections in American art and material culture are found in the museums of the Smithsonian Institution. They range from large holdings of decorative arts -- furniture, silver, textiles, porcelain and glass -- to folk arts and the fine arts, including major collections of paintings, sculpture, prints, and drawings. Supporting the collections are unparalleled resource materials such as the historical documents in the Archives of American Art, the Inventory of American Paintings, photographs, and libraries, as well as recognized scholars working in various areas of American art and history.

By virtue of the richness and diversity of the Smithsonian's collections and its documentary and staff resources, the Institution has become, in fact, a major center for the study of American art and material culture. This center can and should be strengthened by building up its individual parts, including research programs, exhibitions, teacher-training, lectures, and courses. Toward this objective, the Institution will continue to seek the funds needed to permit balanced program presentation. In FY 1982, increased support for exhibits production and scholarly positions, as well as for expanded publications, both on collections and for exhibitions, has been requested. In the future, if the Trade (Tariff) Commission Building does become available to the Institution, it could well serve as the focus for all these activities in American studies. Although the availability of the building is in question, the Institution remains hopeful of securing it for this important purpose.

Complementing this effort, each History and Art unit will be seeking to maintain high performance in all program areas, devoting special attention to selected high priority initiatives. For example, over the next several years, every History and Art bureau will emphasize management of collections. The Archives of American Art will intensify efforts to speed up processing, calaloguing and microfilming new collections, as well as purchase needed compact storage systems which will expand current storage capability by more than forty percent. Additional conservation capability will be added to the Hirshhorn Museum and Sculpture Garden, the Museum of American Art, the Cooper-Hewitt Museum, and the Freer Gallery of Art, while the Museum of American History, the Portrait Gallery and the Museum of American Art will acquire more badly needed storage equipment and space. Other priorities include funding for exhibitions in all the museums with focus on refurbishing older exhibitions; exhibit catalogues, leaflets and checklists for visitors; and design and production assistance. The Archives of American Art will develop fellowship and publications programs, the Hirshhorn Museum will add research assistance to the curatorial staff, and the Joseph Henry Papers Project will publish four more volumes of the papers of this eminent American scientist. Finally, a continuing priority for each of the museums will be increased funding for

acquisitions. The problem of the extraordinary inflation in the prices of works of art of all kinds is discussed at length in the FY 1982 budget submission to Congress and in the Special Programs chapter of this prospectus, for a federally supported Major Acquisiton Program. There is a need to increase annual allocations for acquisitions to enable the museums to make on a planned, regular basis important purchases for the national collections which fill in gaps and help maintain full and representative coverage in all subject areas. Funds for a major program may be sought in FY 1983.

To meet the goals outlined for the next five years, it will be necessary throughout History and Art to add staff positions, primarily in collections management and conservation, exhibitions, and education. To this end, budgetary adjustments within bases will be made and some new resources, both federal and trust, will be sought.

Collections Inventory. Very high priority continues to be given to the inventory of the collections. At the Museum of American History, inventories have been completed in seven divisions, with projects started in eleven other collecting areas. Approximately 183,000 objects have been recorded since FY 1979. Plans call for the physical inventory of the collections to be completed by the end of FY 1983.

Inventory of the collections at the Cooper-Hewitt Museum continues on schedule with plans for completion also by the end of FY 1983. The technical staff has been working in all areas of the collections, and to date, the following have been inventoried and the data entered into the computer: some 6,500 samples of wallpapers, 18,000 objects in the Decorative Arts Department, and 46,000 prints and drawings.

Plans call for the highest standards of collection control to be achieved in all History and Art bureaus by the end of the inventory process. As part of this effort, three Institution-wide surveys are being conducted of prints and drawings, decorative arts, and photographs. These objects are collected and preserved by several Smithsonian museums, and centrally available information about them will improve their usefulness to Smithsonian staff, outside scholars, and the interested public. In 1981, a guide to the prints and drawings in the Smithsonian's collections will be published, and a similar guide to the decorative arts will be published in 1982. The pilot study for a survey of the photograph collections was completed in December 1980, and the full survey should commence in 1981.

Museum of African Art. The Smithsonian's newest museum formally became part of the Institution on August 13, 1979. Approximately \$1,200,000 in federal funds annually should prove sufficient to operate a full range of museum programs, as augmented by continued fund-raising efforts from the private sector which have been vital to the success of the Museum to date. Consonant with Senate views, in which the Institution concurs, a new location for the Museum is identified within the comprehensive development of the Quadrangle south of the Smithsonian Building. Extensive fund-raising efforts are being devoted toward the realization of this important construction project, for which federal authorizing and appropriations bills are being sought in FY 1982. Necessary steps are being taken to assure the safety of

the collections, visitors, and staff in the interim by maintaining the Capitol Hill townhouses which now house the Museum with modest expenditures from the federal restoration and renovation budget. Proceeds from the eventual sale of the Museum's Capitol Hill properties (after providing for the preservation of the Museum's principal structure, the Frederick Douglass House, under some appropriate aegis) will be used to help offset the costs of constructing the new building. The process of integrating this new Museum into the Smithsonian is proceeding, with particular emphasis placed over the planning period on augmenting the scholarly staff of the Museum and securing acquisition funds for the selective growth of its collections.

Museum of American History. Two very important goals of the Museum of American History, the completion of the inventory of its collections and the upgrading of its exhibitions under the Smithsonian's Major Exhibition Program, are discussed elsewhere in this Prospectus. Other key objectives during this period are the further consolidation and strengthening of the Museum's new conservation efforts, steady improvement of collection storage conditions within the main building and at the Smithsonian's Silver Hill facility, a revitalized research program for the professional staff and visiting scholars, continued streamlining of its organizational and administrative structure, and modest increases in its collection acquisition funds. These measured efforts will go far toward making the Museum of American History a most effective resource for the study and teaching of American history.

Other Programs. Other priorities within History and Art through FY 1986 are largely related to improved physical facilities. Federal funding has now been secured for completion of Hirshhorn Sculpture Garden improvements to accommodate the disabled. Enclosure of the Freer Gallery of Art's courtyard would do much to capture valuable additional public space. Construction of viable office and work space in the garage of the Fine Arts and Portrait Galleries Building, as well as the balcony area may also be necessary. Efforts to raise private funds for the development of the South Quadrangle, which will benefit both the Museum of African Art and the Freer Gallery of Art, will continue as will exploration for donors to support renovation of the Miller House. The latter adjoins the Carnegie Mansion and is part of the Cooper-Hewitt Museum in New York. Its renovation is essential for full use of the needed galleries for temporary exhibitions, expanded educational facilities and office space. In addition, completing facade repairs to the Renwick Gallery is a high priority for this period. These various renovation efforts represent by far the largest need for direct new funding on the part of History and Art bureaus of the Smithsonian. Progress on all of these facility requirements is expected by FY 1986. Additional information in contained in the Facilities chapter of this document.

Significant adjustments (approximately 5 percent of the total History and Art federal appropriation between FY 1979 and FY 1982) have been provided in the Institution's budgets in order to begin moving toward the collection management and conservation needs of the Museum of American History and the exhibition requirements of the Museum of American Art. New resources, both federal and trust, in FY 1982 and beyond will be needed to continue

improvements initiated within the History and Art base. Such programmatic growth presently foreseeable is limited to carefully chosen areas -- the conservation, care, research and exhibition of the collections; the Museum of African Art; revitalizing the Museum of American History; and improved facilities.

### History and Art Resource Growth

In FY 1986, resources in History and Art are expected to reach about \$31,800,000 from the present FY 1980 level of about \$26,900,000 Projected increases in federal appropriations are principally associated with continued improvement in collection management capability; future-year operations of the Museum of African Art; revitalizing the research programs of the Museum of American History; and expanding education, exhibition, and collection acquisitions at the Portrait Gallery, Museum of American Art, and Freer Gallery. Trust funds are forecasted to increase somewhat, largely as a result of expectations regarding unrestricted and restricted fund expenses associated with the Freer Gallery of Art, the Cooper-Hewitt Museum, and the Museum of African Art.

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FΥ	1980	FY	1981	FΥ	1982	FΥ	1983	FΥ	1984	FΥ	1985	F	1986
HISTORY & ART	FTEMPL	(000)	FT	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT	\$ (000)	FTEMPL	(000)
ASSISTANT SECRETARY FOR HISTORY & ART									•					
FEDERAL SALARY & EXPENSES	4	155	4	170	-4	173	4	173	4	173	4	173	4	173
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	-0	65	-0	69	-0	7.1	-0	75	-0	78	-0	82	-0	86 0
	0	0	0	0	0	0	0	0	0	0	0 (	0	0	0
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	000	900	000	900	000	000	000	000	000	000	000	000
-SUBTOTAL	വ	222	Ω	255	2	260	2	248	2	251	ည	255	വ	259
JOSEPH HENRY PAPERS														
FEDERAL SALARY & EXPENSES	വ	162	വ	181	9	207	9	207	9	207	9	207	9	207
UNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	-0	20	00	00	00	00	00	00	00	00	00	00	00	00
_	•	0	0	0	•	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED	00	9-	00	0 -	00	20	00	200	00	200	00	50	00	200
FEDERAL GRANTS & CONTRACTS	0	9	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	9	191	വ	182	9	257	9	257	9	257	9	257	9	257
MUSEUM OF AMERICAN HISTORY														
FEDERAL SALARY & EXPENSES	278	7117	278	7970	278	8494	279	8773	281	8984	283	9202	283	9386
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	148	00	92	00	87	00	120	00	125	00	135	00	142
UNRESTRICTED SPECIAL PURPOSERUBEALL ACTIVITY	0	0	0	ιΩ	0	m	0	4	0	4	0	4	0	4
- ACL	000	219	00	122	000	113	000	110	000	110	000	110	00	110
RESIMICIEU FEDERAL GRANTS & CONTRACTS	00	900	00	0	00	<i>T</i>	00	0	00	n	00	0	00	
-SUBTOTAL	282	7912	280	8449	280	8844	281	9162	283	9378	285	6096	285	9797

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FΥ	1980 A	AND PRO	PROJECTED	THROU	THROUGH FY 1	1986							
	FY	1980	7.	1981	Ŧ	1982	FΥ	1983	F	1984	F	1985	7	1986
HISTORY & ART	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FT EMPL	(000)
MUSEUM OF AMERICAN ART														
FEDERAL SALARY & EXPENSES	105	3371	106	3649	106	4043	108	4516	110	4816	112	5131	112	5456
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	- 0	53	-0	55	-0	7. 0	00	21	00	21	00	21	00	21
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	00-0	947 230 5	00-0	54 164 0	00-0	61 64 0	0000	50 45 0	0000	5 52 47 0	0000	5 49 0	0000	56 51 0
-SUBTOTAL	107	4612	108	3926	108	4202	108	4637	110	4941	112	5260	112	5589
NATIONAL PORTRAIT GALLERY														
FEDERAL SALARY & EXPENSES	92	2442	92	2662	92	2857	92	2995	92	3048	78	3108	78	3148
PROGRAM & ADMINISTRATIVE - AUXILIARY ACTIVITY	00	31	00	22	00	17	00	17	00	17	00	17	00	17
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -AII OTHER		2780		3	00	5	00	<u> </u>	00	900	00	91	00	900
RESTRICTED CONTRACTS	40	139	40	251	000	318	m 0	170	000	179	000	188	m 0	197
-SUBTOTAL	80	5395	80	2955	79	3214	79	3206	79	3270	81	3340	81	3390
HIRSHHORN MUSEUM & SCULPTURE GARDEN														
FEDERAL SALARY & EXPENSES	80	2200	80	2401	80	2523	81	3067	81	2955	18	3155	82	3195
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	• • •	23	00	23	00	19	00	19	00	19	00	19	00	0
UNRESIMICIED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER		49	• • •	34	00	62	00	00	00	100	00	0 0	00	00
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	137		315	00	100	00	100	00	100	0 0	50	00	50
-SUBTOTAL	80	2409	80	2774	80	2704	81	3196	81	3084	81	3234	82	3274

SMITHSONIAN INSTITUTION	APPLICATION OF OPERATING FUNDS	FY 1980 AND PROJECTED THROUGH FY 1986
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	<u>н</u>	1980	FY	1981	FY	1982	FΥ	1983	FΥ	1984	FΥ	1985	FΥ	1986
HISTORY & ART	FTEMPL	(000)	EMPL	(000)	FTEMPL	(000)	FTEMPL	\$ (000)	FT EMPL	(000)	EMPL	(000) \$	FTEMPL	(000) \$
FREER GALLERY OF ART														
FEDERAL SALARY & EXPENSES	59	656	30	749	31	874	34	1097	34	1147	35	1216	36	1289
	• • •	00	00	60	00	10	00	0,0	00	22	00	24	00	26
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED & CONTRACTS	0000	367 1050	0000	1247	0000	1282	0000	1408	0000	1478	0000	1552	0000	1642
-SUBTOTAL	49	2083	4	2005	20	2175	53	2525	53	2647	54	2792	5	2957
ARCHIVES OF AMERICAN ART														
FEDERAL SALARY & EXPENSES	17	521	17	591	17	658	18	777	19	720	20	800	20	835
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY		-0	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	•	0	0	0	0	0	0	ø	0	0	0	0		0
-ALL OTHER RESTRICTED	000	6 464	06	386	000	394	0 = 0	415	0 = 0	436	0 = 0	458	0 = 0	481
FEDERAL GRANTS & CONTRACTS -SUBTOTAL	26	992	26	977	26	1052	29	1192	30 0	1156	31 0	1258	e e	1316
COOPER HEWITT MUSEUM														
FEDERAL SALARY & EXPENSES	21	629	22	669	23	794	25	852	27	896	31	1004	32	1036
	50	329	<u>.</u> 0	368	00	366	00	366	00	366	00	366	<u> </u>	366
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	= 9	425		550	ភ ។	571	ro c	550	ស <	575		600		625
-ALL DIHER RESTRICTED FEDERAL GRANTS & CONTRACTS	> 4 <del>-</del>	482 55	1100	527 25	100	287 567 25	1100	600	1 10 0	600 25	o u	600	0 01	600
-SUBTOTAL	47	2131	46	2433	47	2610	49	2718	51	2812	55	2970	56	3052
														The state of the s

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	F	1980 AP	ND PRC	AND PROJECTED	THROUGH	F	1986							
	F	1980	FΥ	1981	FY	1982	FΥ	1983	F	1984	FY	1985	FY	1986
HISTORY & ART	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT	(000)	FTEMPL	(000)
MUSEUM OF AFRICAN ART													<u>. , , =</u>	
FEDERAL SALARY & EXPENSES	23	543	24	714	-22	842	28	982	31	1126	33	1215	34	1294
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	7 0	00	410	00	10	00	10	00	-0	00	-0	00	=0
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	0000	198 -8 134 35	0000	218 25 194 0	8000	244 31 212 0	0002	255 31 222 0	000	268 31 234 0	0002	281 31 245 0	0000	295 31 257 0
-SUBTOTAL	34	606	35	1165	36	1340	39	1501	42	1670	44	1783	45	1888
HISTORY & ART-SUMMARY														
FEDERAL SALARY & EXPENSES	638	17856	642	19786	646	21465	629	23439	699	24072	683	25214	687	26019
UNKESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	20	679	140	652	410	635	£ 0	649	6.0	629	<u>.</u> 0	675	<u> </u>	688
	ū	000	-	781	-	827	-	010	Ç	g g	-	ROR		435
-ALL OTHER RESTRICTED	2 4	4583 3003		532 3345	4 4	587 3119	4 4	545 3165	4 4	573 3279	4 4	601 3347	4 2 4	629 3483
FEDERAL GRANTS & CONTRACTS	-	103		1 1	0	25	0	25	0	25	1 1	25	;	25
-TOTAL	716	26856	714	25121	717	26658	730	28642	740	25466	754	30758	759	31779
	1													
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# PUBLIC SERVICE

Through its Public Service activities, the Institution has had considerable success in reaching national audiences over the last few years by means of publications, television and radio, lectures and conferences, live performances, and exhibition programs. Public Service organizations include the Anacostia Neighborhood Museum, the Division of Performing Arts, the International Exchange Service, the Office of Telecommunications, Smithsonian Exposition Books, the Smithsonian Institution Press, Smithsonian Magazine, and the Visitor Information and Associates Reception Center.

While organizationally part of the Institution's Public Service activities, the resources and programs of the Offices of Elementary and Secondary Education, and Symposia and Seminars, are contained in the Special Programs chapter to provide consistency with the FY 1982 budget presentation to Congress. Also, the Magazine and its resources appear in the chapter devoted to Associates Programs because of the general support the Magazine provides to many programs of the Institution and because it is viewed as a major benefit to members of the Associates.

Over the next five years, a principal objective will be to reach a more diverse and larger portion of the general public with the Institution's presentations, publications, and other Public Service activities. The contents of programs and activities will emerge, as they have in the past, from accumulated Smithsonian expertise in science, history and art, as well as the Institution's basic museum collecting and exhibiting activities.

One factor lending impetus to public service development over the past few years has been the application of trust funds for educational outreach programs. The application of these funds to Smithsonian public service programs is expected to continue over the coming five years, and the projects and activities will continue to originate from and be produced by various organizations throughout the Institution. Such activities perform invaluable public services while at the same time relieving the taxpayer of the need for public appropriations.

### Current Resources and Support

Total resources in FY 1980 devoted to Public Service activities amount to about \$12,600,000 and 127 full-time employees are at work in the various units.

A breakdown of FY 1980 resources follows:

	FY 198	30
	Full-Time	Funds
Source of Funds	Employment	( <u>\$000s</u> )
Federal Salaries		
& Expenses	70	\$2,302
Unrestricted trust	57	10,212
Restricted trust	_	27
Federal Grants		
& Contracts	<del></del>	29
Total	127	\$12,570

Unrestricted trust fund support is, for the most part, concentrated in the expenses of the Smithsonian Exposition Books program, the Division of Performing Arts, and the Smithsonian Press. The Visitor Information and Associates Reception Center is operated primarily with trust funds, but additional appropriated resources will be needed over the planning period.

Restricted purpose funds are occasionally obtained for support of special activities sponsored by various units such as the Division of Performing Arts. Likewise, occasional federal grants and contracts fund portions of publications and other educational endeavors.

Federal appropriations largely support the publication of the basic technical and scientific series distributed by the Government Printing Office; the exchange of medical, scientific, and technical publications between this country and foreign nations; and the core support provided for staff, exhibitions, and research of the Anacostia Neighborhood Museum. Over the next five years most Public Service functions will operate near their present level of federal funding, with staff and dollar resources added only to meet the most urgent needs. Increased federal support will be requested for the Visitors Information and Associates Reception Center to provide improved services to visitors and to individuals making inquiries about institutional activities via letters and telephone. Growth is expected to occur in trust support, particularly with regard to increased production expenses associated with the Division of Performing Arts and the Exposition Books program.

#### Future Year Prospectus

Office of Telecommunications. The Institution creates radio, film and television programs to take the museums and their myriad activities to the people throughout the country. Over the next five years several changes will take place in electronic technology which may change the viewing and listening habits for millions of Americans. The Institution, in preparation for these changes, is involved in the research, study and development of pilot programs for the rapidly growing cable television and home video industries. With cable television increasing in popularity and with the advent of video playback instruments for regular family use, the 1980's could see the large-scale beginnings of more diverse and selective viewing audiences. The Smithsonian plans to be producing quality programming that will reach these more specialized viewers in this country and abroad.

Radio Smithsonian, the half-hour weekly program, is entering its second decade. Beginning February 1981, it will be listened to over the National Public Radio Satellite System. Satellite utilization will greatly increase the program's audience. The audiences of the Smithsonian Galaxy, the Institution's series of 2-1/2-minute radio features, have increased over the past year and are now reaching more than 13,000,000 listeners in 43 states, Canada and Australia, as well as in Germany through the Canadian Forces Network.

Two specialized films have been completed this year that serve particular audiences as well as the general public. A Sense of Discovery profiles the many programs of the Museum of American Art, the Institution's center for the study and encouragement of American art. Based on ten years of research at the Tropical Research Institute in Panama, Dragon of the Trees: The Green Iguana is a valuable teaching tool on animal behavior. Both films are to be aired soon on public television stations nationwide.

Future plans call for a film on man's collecting instinct. Focusing on many of the nation's treasures, as well as obscure artifacts, it will trace why man collects, what we learn from these collections, and the practical research that collections inspire. This film will serve as a companion to the previously produced film, The Smithsonian Institution with S. Dillon Ripley, the 1977 multiple-award winner which has been telecast by more than 70 Public Broadcasting System stations throughout the country.

Visitor Information and Associates Reception Center. The Center, one of the least known but most effective and important organizations in the Institution, provides centralized information services for Smithsonian staff, Associate members and the general public. During the year, telephone volunteers responded to an estimated 300,000 phone calls for various types of information, over 40,000 mail inquiries were researched and responses prepared, orientations were provided for hundreds of visiting groups, and several million visitors were furnished information on a multitude of subjects. The Center also operates a volunteer placement service for an additional 500 volunteers who provide behind-the-scenes project assistance to the scientific and curatorial staffs. It is conservatively estimated that the Center, through its fine volunteer efforts, provides the public and the Institution with an annual savings of about \$3,200,000. The Institution expects a growing workload for this organization and the services it provides. In future years, added trust and federal support is planned to accommodate the needs of the Associates and general public.

Anacostia Neighborhood Museum. The Museum is a community-based center and a cultural resource for the people, young and old, of the neighborhood, as well as an example and a source of materials on Black American history for similar institutions elsewhere. Over the next five years, the Museum will increase its involvement in joint research, education, and curation programs with other Smithsonian organizations, with non-Smithsonian museums, the academic community, Library of Congress, archival repositories, and other institutions. It also will continue to concentrate on developing innovative exhibits, including traveling versions of these exhibits, which will link the Museum's endeavors with those based on the Mall and around

the country. To these ends, research leading to the next two major exhibitions, The Harlem Renaissance and Antiquity: Africa in World Culture, is just getting underway. Modest resource growth for the Museum's activities is projected for FY 1983-86 to provide for the gradual development of the research, education, and exhibition programs. In addition, the Institution will continue to examine space alternatives for eventual replacement of the current leased facilities.

International Exchange Service. No change is anticipated in relation to the present activities and funding of the Exchange, except to complete the transfer to the Government Printing Office of a portion of the operation which processes the overseas distribution of official federal government publications. It is anticipated that revision of Title 44 to accomplish this transfer will be completed in FY 1981. In future years, the Smithsonian expects to continue to provide exchange services to the nation's universities and learned institutions for scholarly publications.

Division of Performing Arts. This Division presents the creative artistry of composers, musicians, and performers who have contributed much to American life and culture. The Division sponsors celebrations at holiday times, performances, conferences at the Smithsonian Institution, and produces recordings, books, catalogues, video tapes and films for distribution.

All performances and products are based on intensive research into the performing arts and their relationship to American culture. In FY 1980 an especially noteworthy event was the Conference of the Civil Rights Movement that brought together participants of the struggles which began in 1960. The conference resulted in a catalogue of distinction, a three-record set of important songs, an exhibit which will tour the nation, and a better scholarly understanding of our times.

In FY 1980, in addition to the three-record set of Voices of the American Civil Rights Movement, six other recordings were issued from American Musical Theater, as well as important collections of influential, yet little known, jazz greats such as Freddie Keppard. In FY 1981, Classic American Country Music will be issued as will seven other new recordings in Jazz, American Musical Theater and Modern Chamber Music. The FY 1980 nomination for the International Record Critics Award for the Brandenburg Concerti of Johann Sebastian Bach provides ample evidence of the Institution's success with its scholarly recording programs.

Throughout the planning period performance efforts will continue, and will be devoted to such areas as jazz songs, gospel music, popular entertainment and the characteristics of historical musical instruments. One hundred six live performances are planned for FY 1981 at the Smithsonian, in addition to which several Smithsonian musical groups will tour under the Division's sponsorship. Special appearances of the Little Theater of the Deaf and of performing artists who have overcome disabilities will be featured during the International Year of Disabled Persons.

Smithsonian Institution Press. The Press, in its official function, serves the Smithsonian's requirements for quality publication of the growing

number of research studies and monographs, art and exhibit catalogues, brochures, information guides, etc., which are produced by Smithsonian staff in fulfillment of the Institution's federally funded activities. In addition, the Press has set as their long-range goal careful but steady expansion of the trust-funded university press activities to annual publication and distribution levels of up to 50 (from the current level of about 20-30) significant scholarly and general trade books on subjects relevant to Smithsonian collections or research interests. In addition, the Press will continue to improve its steadily expanding capability in marketing, and warehousing and order fulfillment, with the basic objective of enabling the Smithsonian Institution to publish broadly at a minimum of expense, or preferably none at all.

Examples of federally funded books to be published in FY 1981 include: Identification of Pathological Conditions in Human Skeletal Remains, The Social Organization of Tigers in Royal Chitawan National Park, The Relationships of the Pedionomidae, The Muses Flee Hitler, Part II, and Smithsonian Year 1980, the detailed annual report of Smithsonian operations.

Some significant titles currently scheduled for trust funded publication in FY 1981 are Volume 4 of The Papers of Joseph Henry, Renaissance in Islam: The Art of the Mamluks, So Proudly We Hail: The History of the United States Flag, and Diplomats in Buckskin: Indian Delegations to Washington -- for all of which-Smithsonian staff members are either authors or editors-in-chief.

Smithsonian Exposition Books. This office was established in 1977 to publish through trust support popular books based on Smithsonian collections and research. Six books have been published to date and have been sold primarily to Smithsonian Associates by direct mail. 1/ They are also sold to the book trade through a prominent commercial distributor. In FY 1981 Exposition Books will produce Fire of Life: The Smithsonian Book of the Sun, scheduled for publication in February. Development work is in progress on other books, whose eventual publication is subject to satisfactory market testing and approval by the Smithsonian Publishing Council. Exploratory work is also underway on other projects -- an anthology of art from the first ten years of Smithsonian magazine, a cultural/historical atlas of the United States, and popular series publications based on Smithsonian collections.

Smithsonian Exposition Books has three immediate goals, intended to strengthen its operations and contribute to the Institution's publications program. The first is to refine and blend its new accounting system to meet institutional and commercial publishing industry practices. The second is to expand available projects dealing with more specific areas in collection and museum-related subject areas. The third is to broaden the market base and to expand readership beyond the Smithsonian Associates by pursuing distribution and co-publishing arrangements. Accomplishment of these goals will provide greater diffusion of knowledge.

<sup>1/</sup> They are The Smithsonian Experience, The Magnificent Foragers, The Book of Invention, A Zoo for All Seasons, The American Land, and Every Four Years.

### Public Service Resource Growth

In FY 1986, resources associated with the conduct of Public Service activities may reach approximately \$15,300,000 from present levels of about \$12,600,000 Most of the increase, however, will be due to the added expenses associated with the trust operations of the Exposition Books Program and the Division of Performing Arts. Only minor growth is projected for restricted trust operations and federal appropriations.

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FY	1980	FΥ	1981	FΥ	1982	FΥ	1983	Ρ¥	1984	FΥ	1985	FY	1986
PUBLIC SERVICE	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)
ASSISTANT SECRETARY FOR PUBLIC SERVICE														
FEDERAL SALARY & EXPENSES	9	188	9	219	ω	225	9	225	9	225	9	225	9	225
UNRESTRICTED GENERALPROGRAM & ADMINISTRATIVEAINTIANN ACTIVITY	-0	27	-0	35	-0	38	-0	40	-0	45	-0	48	-0	51
	c	, ,	c		c	•	c		C	C	c		<u> </u>	
DONEAD ACTIVITY -ALL OTHER RESTRICTED	000	000	000	000	000	000	000	000	000	000	000	000	000	
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	7	215	7	254	7	263	7	267	7	270	7	273	7	276
OFFICE OF TELECOMMUNICATIONS														
FEDERAL SALARY & EXPENSES	7	58	8	52	0	53	4	124	4	144	4	166	4	190
ONKESIKICIED GENERALPROGRAM & ADMINISTRATIVE	90	235	90	285	90	295	ဖင	305	90	320	90	335	9 0	350
UNRESTRICTED SPECIAL PURPOSE		• •	) (	, ,		• •	, ,	) (	) (	· c	, ,	, ,		
-ALL OTHER	000	36	000	00	000	000	000	00	00		000	000	0	000
RESTRICTED   FEDERAL GRANTS & CONTRACTS	0	-0	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	8	330	8	337	8	348	10	429	0_	464	10	501	0-	540
VISITOR'S INFORMATION & RECEPTION CENTER														
FEDERAL SALARY & EXPENSES	<del>-</del>	16	N	33	8	64	ო	113	4	138	9	178	7	203
DNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXIIIARY ACTIVITY	00	314	00	401	o o	413	60	433	o 0	453	00	47B 0	00	503
								) (		, (				
-BUREAU ACTIVITY -ALL OTHER	00	o –	00	00	00	00	00	00	00	00	00	00	00	00
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	00	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	10	331	=	434	=	477	12	546	13	591	15	656	91	706

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APP	FY 1980 AND PROJECTED

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FI		FY	1980	F	1981	FΥ	1982	ъ. Ъ.	1983	F	1984	FΥ	1985	F	1986
19   567   19   727   19   756   21   808   21   840   21		FTEMPL	(000)	FT	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)
19   567   19   727   19   756   21   808   21   840   21	ANACOSTIA NEIGHBORHOOD MUSEUM													•	
CE	FEDERAL SALARY & EXPENSES	19	567	19	727	19	756	21	808	21	840		840	21	882
ICE  10 10 11 10 10 11 10 10 11 10 10 11 10 10	UNKESIKICIED GENERAL -PROGRAM & ADMINISTRATIVE	-	22	_	29	-	32	-	34	-	36	-	38	_	40
CE		0	0	0	0	0	0	0	0	0	0	0	0	•	•
CE		0	0		0	0	0	0	0	0	0	0	0	<u> </u>	•
CE	-ALL OTHER	0 0	17		0	00	0 0	00	0	0	0 0	00	0 0	0 0	00
CE	FEDERAL GRANTS & CONTRACTS	00	- 0		00	00	00	00	0	00	00	00	-		
F 323 5 232 5 247 5 122 5 122 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-SUBTOTAL	20	607	20	756	20	788	22	842	22	876	22	878	22	922
E	INTERNATIONAL EXCHANGE SERVICE														
E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEDERAL SALARY & EXPENSES	S.	323	ß	232	Ŋ	247	ß	122	S	122	Ŋ	122	S	122
E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6         0		0	0	0	0	0	0	0	0	0	0	0	0	•	0
5 323 5 232 5 247 5 122		0	0	0	0	0 (	0	0	0	0	0	0	0	0	0 (
5       323       5       232       5       247       5       122       5       122       5         9       331       10       408       10       462       10       498       10       508       10         19       3521       19       4168       23       3800       23       3850       23       4200       23         0	-ALL UIHER   RESTRICTED	00	0	0	0	00	0	0	00	00	0	00	00	0	0
E 323 5 232 5 247 5 122 5 122 5 122 5 5 5 5 5 5 5 5 5 5 5	FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	•
E	-SUBIOTAL	ഹ	323		232	ഹ	247	വ	122	S	122	5	122	S	122
VE	DIVISION OF PERFORMING ARTS								·						
TRATIVE  19 3521 19 4168 23 3800 23 3850 23 4200 23  PURPOSE  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FEDERAL SALARY & EXPENSES	6	331	9	408	01	462	10	498	10	508	10	518	2	528
ACTIVITY SPECIAL PURPOSE  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UNRESTRICTED GENERAL	-	č	-			c			•	c		c		
SPECIAL PURPOSE  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-AUXILIARY ACTIVITY	19	3521	- 6	4168	23	3800	23	3850	23	4200		4200	23	4300
ER CONTRACTS & CONTRACTS \( \text{CONTRACTS} \)	UNRESTRICTED SPECIAL PURPOSE	-	•	_	(	(	•		•		•		(	(	
ANTS & CONTRACTS 0 29 0 25 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-BUREAU ACTIVITY	0	0 96	0	00	00	0	50	<b>O</b> C	o	0	0 0	0	00	0
0 25 0 15 0 0 0 0 0	RESTRICTED	0	0	-	22	-	25	-	25	·	25	٠ جـ- ١	25	. –	25
	FEDERAL GRANTS & CONTRACTS	0	29	0	25	0	15	0	0	0	0	0	0	0	0
28 3998 30 4623 34 4302 34 4373 34 4733 34	-SUBTOTAL	28	3998	30	4623	34	4302	34	4373	34	4733	34	4743	34	4853

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	<b>⊢</b>	1980 AND		PROJECTED	HROUGH FY	i	1986								
	FΥ	1980	FΥ	1981	FΥ	1982	F	1983	FΥ	1984	FΥ	1985	F	9861	
PUBLIC SERVICE	FT EMPL	(000) \$	FT EMPL (	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	\$ (000)	FTEMPL	\$ (000)	
SMITHSONIAN INSTITUTION PRESS					· · · · · ·										
FEDERAL SALARY & EXPENSES	28	819	28	606	29	979	29	666	29	166	29	1002	29	1006	
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	0 9	1879	0	1479	0 80	1081	0 0	1166	06	1254	00	1349	00	1466	
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER	00	70	00	00	00	00	00	00	00	00	00	00	00	00	
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	25	00	00	00	00	00	00	00	00	00	00	00	00	
-SUBTOTAL	34	2725	35	2388	37	2060	38	2159	38	2251	39	2351	39	2472	
SMITHSOMIAN EXPOSITION BOOKS															
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GENERAL ADMINIST ACTIVITY	0 12	4041	0 12	3920	0 12	3716	15	4087	15	4700	15	5052	0 0	0 5431	
UNRESTRICTED SPECIAL PURPOSE BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-ALL OTHER RESTRICTED	00	00	00	00	0 0	00	00	00	0 0	0 0	00	00	0 0	00	
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-SUBTOTAL	5	4041	15	3920	5	3716	5	4087	15	4700	15	5052	15	5431	
PUBLIC SERVICE-SUMMARY						•									
FEDERAL SALARY & EXPENSES	70	2302	72	2580	73	2786	78	2883	79	2974	81	3051	62	3156	
	17	619	17	750 9567	17	778 8597	17	B14 9103	17	854 10154	17	899 10601	17	944 11197	
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
∼ALL OTHER RESTRICTED	00	152	0 -	22	0 -	25	0 -	25	0-	25	0 -	25	0 -	25	
FEDERAL GRANTS & CONTRACTS	0	29	0	25	0	15	0	0	0	0	0	0	0	0	
-T0TAL	127	12570	131	12944	137	12201	143	12825	144	14007	147	14576	148	15322	



# MUSEUM PROGRAMS

Museum Program units have as their chief responsibility the provision of museum management and other services to the museums and research bureaus of the Institution. They also offer assistance, guidance, and technical services to museums throughout the United States and abroad and, in this connection, work closely with national and international organizations to advance the practices, methodologies and standards of the museum profession. They provide such services as traveling exhibitions, horticultural exhibitions and displays; and grants, special studies, and support training for various aspects of museum work. Museum Program units report to the Assistant Secretary for Museum Programs and consist of the following activities: Office of Museum Programs, Conservation Analytical Laboratory, Office of the Registrar, Office of Exhibits Central, National Museum Act, Smithsonian Institution Libraries, Smithsonian Archives, Smithsonian Institution Traveling Exhibition Service, Office of International Activities, Office of Horticulture, and South Group Building Management.

In recent years, there have been significant changes in the status and perception of museums. Their numbers have increased astonishingly everywhere; they have become integral to the educational process; they are more than ever held accountable for the quality and condition of important collections, and for the strength of their research and informational programs. In many parts of the world, museums have become a chief means of preserving and expressing national cultures and identities. These changes have created a need for better trained personnel for museums in such areas as collections management encompassing accesions, registration, cataloguing, inventory control, security, and storage; conservation treatment and analysis; information systems; education; and general museum management. New fields of research, especially archaeometry, which is concerned with the basic characteristics of materials, have been recognized as vital to the study and understanding of museum collections. The use of fumigants and their impact on both museum materials and personnel must be better understood, and methods to conserve energy in museums, while still providing stable and secure environments for the collections, must be explored. Much of the effort of Museum Program units is directed to these and similar issues.

### Current Resources and Support

Total resources available to Museum Programs in FY 1980 approximate \$10,000,000 and 314 full-time positions. Of this total, federal appropriations amount to \$8,400,000 and 284 positions, and support almost entirely the units' basic work, with the exception of the Smithsonian Institution Traveling Exhibition Service (SITES). SITES relies to a large extent on general unrestricted trust funds (\$1,027,000 in FY 1980), most of which are generated by rental fees for the exhibitions circulated.

A breakdown for FY 1980 Museum Programs resources follows:

	FY 198	30
Source of Funds	Full-Time Employment	Funds (\$000s)
Federal Salaries	<u> </u>	(40000)
& Expenses	284	\$8,396
Unrestricted trust	30	1,435
Restricted trust	-	140
Federal Grants &		
Contracts		25
Total	314	\$9,996

Other Museum Program units funded by nonappropriated unrestricted trust funds in addition to federal appropriations are the Libraries, for the support of staff and related expenses, and the Smithsonian Archives, which has a small trust fund budget. The Office of Museum Programs has a revolving trust fund budget based on revenues received for handling and shipping costs for the circulation of audiovisual programs on conservation information. The borrowers of these programs, usually museums or academic institutions, are charged no rental fee for their use. The Office of Museum Programs has also received funding from donors to support special activities such as the seminar on "Children in Museums" held in October 1979. The Office of Horticulture received trust support for the planning and installation of a special exhibit on Victorian horticulture and floriculture and for improvement of its greenhouse and nursery facilities. The Office of Horticulture, South Group Buildings Management, and the Office of Exhibits Central also have special purpose trust fund accounts stemming from provision of services or production efforts for trust activities; these funds are used only to sustain these services.

### Future Year Prospectus

Within this projected planning period, the Institution will establish and initiate a training program for conservators and conservation technicians at the Museum Support Center. This will be made possible with the completion of the Center and the expansion of the staff of the Conservation Analytical Laboratory to include conservation training coordinators, as well as additional conservators and scientists. Collections management, particularly inventory and informational systems, will receive increased attention, and the methods of handling the Institution's archival and bibliographic resources will be improved through automated systems and administrative refinements. The Traveling Exhibition Service will expand its international program.

Museum Support Center. Planning for the Museum Support Center was completed in mid-1980. A construction period of 24 months commencing in February

1981 is anticipated, with completion of the structure and occupancy by Smithsonian units scheduled for the winter of 1982-83. Throughout the planning process, strict standards for suitable environmental conditions and security, as well as for laboratory functions, were adhered to closely. Following a thorough study of the problem, a storage system of racks capable of holding a variety of integrated modular collection encasement units was determined to be the most effective means of meeting the needs of the various Smithsonian museum departments to store collections there. The acquisition of both storage and laboratory equipment will begin in FY 1981 and continue through the planning period and beyond. It is planned to start the process of transferring collections as soon as possible after completion of the Center and after all the basic systems (fire, protection, etc.) are operational and have been thoroughly tested.

Additional details regarding the construction, equipping and operations of the Museum Support Center appear in the Special Programs chapter, the Facilities chapter, and Table 13.

Conservation Research, Training, and Information. The plans developed in 1979 for the Conservation Analytical Laboratory in the Museum Support Center and for the facilities and training program for conservators and conservation technicians have remained substantially unchanged since their inception, and both program and budget growth will occur during the years immediately ahead. Within the Center, the Laboratory and training program will occupy the major portion of the 44,000 square feet of space assigned to conservation functions to be performed there. Other parts of this space will be used by the Anthropology Conservation Laboratory and by the Conservation Laboratory of the Museum of American History. Conservation treatment presently performed by the Conservation Analytical Laboratory in the American History Building will be transferred to the new Museum Support Center and consideration is being given to modifying the existing facilities on the Mall for specialized research and analytical tasks.

Proper utilization of the new facilities will require a significant increase in staff for various organizations, as displayed in Table 13. The phasing of this growth takes into account the time required for construction of the Museum Support Center and acquisition of its equipment and furnishings. For the Conservation Analytical Laboratory, because of the difficulty in recruiting highly qualified and scarce conservation personnel, steps were taken in 1980 to prepare appropriate position descriptions so that personnel actions can be instituted on schedule. Precise specifications for special conservation equipment, particularly fumigation equipment which must be in place in the Center at the time of its occupancy, are being drawn up and orders for some of the equipment will be placed in FY 1981.

Special task forces, consisting of Smithsonian staff and personnel from the academic community, have been created to develop a training curriculum, prerequisites for entering students, faculty arrangements, and course completion requirements. Initial discussions have been opened with the administration

and staff of a local university to explore the extent to which Conservation Laboratory instruction and graduate and undergraduate level courses must be integrated to produce a well-rounded and complete conservation program. A training program coordinator will be employed by the Laboratory during FY 1981 to prepare for and set up the training activity so that students can be accepted during FY 1983. Other staff positions important to the expanded conservation analytical and treatment functions, and to the training program, will be recruited over the planning period, particularly FY 1982 and FY 1983.

In addition to attending to the development of activities that will occur in the Museum Support Center in the coming years, the Conservation Analytical Laboratory will continue to explore the best means of monitoring environmental conditions throughout the Institution's museums in an effort to stabilize relative humidity and temperatures in all areas housing exhibits and collections; it will continue its program of computerizing conservation data and related information which are the product of its ongoing work, and to establish closer linkage with similar systems elsewhere. As an example of this, the Laboratory has installed a system for gaining access to the British Museum for their conservation reports and the Index to Art and Archaeology Technical Abstracts. Future projects of the Laboratory will include the updating of conservation information videotapes which are distributed upon request to the museum profession, and the making of new videotapes of conservation processes while they are in progress. These tapes will provide a valuable record of laboratory work and will be used for training and instructional purposes. The Laboratory will continue its role of providing assistance and advice to curators in the identification and selection of objects requiring treatment. Other Institution-wide conservation matters are subjects of discussion of the Smithsonian Conservation Council which meets regularly.

The Conservation Analytical Laboratory is also planning to continue its cooperative arrangements with the National Bureau of Standards for archaeometric studies and seminars. The Laboratory has and will continue to participate in international conferences on archaeometry and will be actively involved in a major meeting to be held in the United States in May 1981 which will address the future development of the subject.

Collections Management. Collections management, particularly the acceleration of inventories of collections and the establishment of improved data systems, has been established as an institutional priority for the coming years. Aside from the issues and requirements associated with the Conservation Analytical Laboratory and the specific references to collections management/inventory matters appearing in the Science, History and Art, and other chapters, the Office of the Registrar will play an increasingly important role in collections management over the planning period. The Office will provide continuing assistance to bureaus in modernization of their systems for management of information about objects in collections, will guide the development of a Smithsonian-wide information system to achieve effective intellectual integration of data on the collections, and will maintain information on the progress of collection inventory projects in the various bureaus. In addition, the Office will pursue implementation of recommendations made in the 1977 report on collections management to develop training programs to support Smithsonian personnel working in collection registration

and related functions. The Office will continue to manage the affairs of the Smithsonian's Council of Registrars and will collect and disseminate collections management information through this group.

In FY 1980, the Office developed an Institution-wide statement on collections policies; it will maintain in the future a complete file of individual bureau collections management policies along with summaries of procedures on specific topics such as acquisitions, deaccessioning and loans, so that all relevant information on these activities may be readily accessible.

An important activity of the Office of the Registrar has been to work with a variety of organizations for the development of standards for national and international museum data exchange. This work will continue and will be accelerated in future years. The Office also plans to establish a specialized transportation function that will assist and advise museums and other bureaus with the movement of collection objects among museums and the Museum Support Center.

Smithsonian Libraries. The Smithsonian Institution Libraries is a major American academic research library system, serving Smithsonian and non-Smithsonian scholars through its collections and staff services. The Institution during the forthcoming planning period will try to address and solve some of the long-standing problems associated with the system. Foremost among these is inadequate space. The Institution will try to provide consolidated space to house safely the overflow of collections. Various solutions have been considered in the past, but were not approved or implemented because of higher priority space and facility needs. While the Institution's policy is to lease new space for programs only as a last resort, a request for this purpose may be necessary in future years. The Institution must also consider remaining renovation needs of the central library space located in the Museum of Natural History building, along with the need to create atmospherically sound stack areas in all of the branches of the system.

Plans call for a complete, on-line bibliographic data base management system (acquisitions, cataloguing, catalogue access, interlibrary loans, serial check-in, and circulation) for the entire network of Smithsonian Libraries and FY 1983 is the target date for implementation. Increased automation will provide greater access to Smithsonian library resources by the national research community and will reduce the long-range rise in the cost of doing business.

Conservation of needed research materials will be served by improved and upgraded storage stacks just noted, as well as by the Libraries' book conservation program. In 1981, conservation needs of the libraries will be investigated to determine priorities in preservation of unique and important materials. This study will guide the conservation program over the next five years. The book conservation laboratory, staffed by a professional team, continues to treat the most fragile and critical books and papers with advanced techniques and equipment.

In FY 1980 experiments were conducted with telefacsimile transmissions among selected libraries of the Institution, and since 1978 the use of online, commercially available data bases has been expanding. In addition, resource sharing with federal and research libraries, especially with the Library of Congress, has helped to control the need to acquire materials. In 1981, card catalogues will be closed in favor of a computer-output microfiche catalogue (COM). Conversion of older catalogue records into machine-readable form will start in FY 1982.

Plans also include the accomodation of library requirements for new and expanded Smithsonian activities over the coming five-year period. These include establishing library functions at Mt. Hopkins Observatory, the Zoo's Conservation and Research Center at Front Royal, the Museum Support Center, and the Museum of African Art. Expanded programs are planned for the Cooper-Hewitt Museum, Smithsonian Tropical Research Institute, and the Chesapeake Bay Center for Environmental Studies.

The National Museum Act. Through its grants program, the National Museum Act (NMA) provides support to museums, professional museum associations, and academic institutions for training of museum personnel, special museological studies, and for professional and technical assistance for the museum community.

These grants concentrate on museological issues and high priority is given to projects advancing conservation training and techniques. This emphasis is unlike the grant programs offered by the National Endowments which support, for the most part, art- or humanities-related programs, or those offered by the Institute of Museum Services which provide support for museum operating costs. The Office of the Assistant Secretary for Museum Programs and the NMA staff maintain continuing liaison with other organizations and with the Federal Council on the Arts and Humanities, all of which are concerned with support for various kinds of museum activity throughout the United States. The NMA continues to operate under the principles established in a memorandum of understanding that was developed with these organizations in 1979. During the past year, the NMA conducted a thorough review of the grant programs that it supported and developed an offering to fill a need for mid-career training through refresher courses for persons involved in museum work.

In 1980, the National Museum Act was reauthorized for FY 1981 and FY 1982. At the end of this period, NMA grant programs, as well as the grant programs of other organizations, will be reviewed by the Congress.

Other Programs. A strong demand continues for the museum training workshops and the conservation audiovisual presentations produced by the Office of Museum Programs. In 1980, at the request of local and regional museum associations and organizations, the Office conducted a number of training programs away from the Smithsonian; in these instances, the local organizations paid all expenses involved. The Office will further explore this type of cooperative arrangement as a means of making museum training accessible to more museum personnel at no cost to the Institution. A review has begun of the library of audiovisual materials, and a number of items may be remade, particularly those for which the master tapes no longer lend themselves to quality reproduction.

The Smithsonian Archives uses automatic data processing extensively to sort various indexes to the Archives and to publish the Guide to the Smithsonian Archives. Over the period 1982-86, computer usage will be expanded to include archival data on photographs and the development of a management information system to control processing and reference functions. The Archives also plans to improve its microfilm capability.

The Office of Exhibits Central will continue to provide its general and specialized exhibition production services for the Institution's museums. Intensified activity will result from planned renovation of the Federal City Exhibition, design, editing and production work for many new traveling exhibits, and from exhibits planned by the National Associates.

For the Office of Horticulture, new landscaped areas, including the Sensory Garden between the Hirshhorn Museum Building and the Arts and Industries Building, will create a need for an extension of services, as well as the landscaping associated with the Museum Support Center. This Office also in 1980 designed and installed the Victorian Horticulture and Floriculture Exhibition in the Arts and Industries Building. New efforts in exhibits, coupled with research and propagation efforts for special collections of rare and endangered floral species, will enhance the dimensions of the horticultural function in coming years.

The Office of International Activities will support arrangements for research programs being planned in cooperation with foreign scientific agencies and organizations and develop new programs to be carried out with similar organizations in the People's Republic of China.

A substantial increase in federal appropriations available to the Smithsonian Traveling Exhibition Service (SITES) is being planned for FY 1982-86 to help keep rental charges down for consumers of this popular service, to reduce the effects of inflation on production and transportation costs of traveling exhibits, and to strengthen the registrarial, education and publication functions of the program. SITES is computerizing many of its administrative functions, namely, shipping, scheduling, booking and facilities! reports. During FY 1980, the Institution began planning for circulating a series of major exhibitions from abroad, and initial contacts have been made with several South American countries to encourage their use of SITES' offerings. In 1981 a SITES exhibition will visit six Australian cities. A major exhibition of American Impressionists is being organized by SITES to open in Paris in 1982 and then tour to three East European cities, with the cooperation of the ICA. The ability to attract major offerings from foreign countries and institutions is limited by the inability of the Institution to reciprocate with exhibitions organized primarily for showing abroad and by the lack of funds to pay for shipping such exhibitions. The Institution will continue to explore ways to overcome these obstacles in the years ahead.

#### Museum Programs Resource Growth

By FY 1986, Museum Programs resources may approach \$16,200,000 from

present levels of \$10,000,000. Federal appropriations will account for most of the growth and be concentrated in the Conservation Analytical Laboratory activities related to the Museum Support Center, the Traveling Exhibition Service, and for horticulture and library operations. Unrestricted fund support for traveling exhitions is also projected to increase substantially during the planning period.

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	F	1980	FY	1981	F	1982	F	1983	FΥ	1984	F	1985	Ϋ́	1986
MUSEUM PROGRAMS	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)
ASSISTANT SECRETARY FOR MUSEUM PROGRAMS														
FEDERAL SALARY & EXPENSES	ഹ	254	വ	201	τΩ.	209	9	231	9	241	9	251	9	251
UNKESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	50	00	40	00	40	00	40	00	40	00	40	00	40
	•	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER PESTRICTED	000	000	000	-00	000	-00	000	-00	000	-00	000	-00	000	-00
FEDERAL GRANIS & CONTRACTS -SUBTOTAL	o co	259	2	206	o n	214	9	236	9	246	9	256	9 9	256
OFFICE OF MUSEUM PROGRAMS														
FEDERAL SALARY & EXPENSES	=	281		318	Ξ	333	12	452	12	482	14	512	4	542
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
_	0	34	0	32	0	38	0	42	0	48	0	53	0	58
-ALL OTHER RESTRICTED	00	30	00	00	00	00	00	00	00	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	=	358	-	350	Ξ	371	12	494	12	530	14	565	4	009
SOUTH GROUP BUILDINGS MANAGEMENT														
FEDERAL SALARY & EXPENSES	40	724	14	812	41	891	51	981	55	1025	58	1058	61	1091
UNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
_	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER	00	<u>ო</u> c	00	- 0	00	70	00	00	00	00	00	0 0	00	00
FEDERAL GRANTS & CONTRACTS	0	00	0	00	0	00	0	0	0	0	0	0	0	0
-SUBTOTAL	40	721	41	811	41	883	51	981	52	1025	58	1058	61	1091
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SMITHSONIAN INSTITUTION
APPLICATION OF OPERATING FUNDS
FY 1980 AND PROJECTED THROUGH FY 1986

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	FY	1980 AP	AND PRO	PROJECTED	тнкоисн	<u>-</u>	986							
	<b>L</b>	1980	FY	1981	F	1982	FY	1983	F	1984	F	1985	FY	1986
MUSEUM PROGRAMS	FTEMPL	(000)	FTEMPL	(000)	EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT	(000)	FTEMPL	(000)
OFFICE OF HORTICULTURE														
FEDERAL SALARY & EXPENSES	29	907	29	1015	29	1098	36	1307	40	1419	41	1445	44	1565
UNKESIKICIEU GENEKAL -PROGRAM & ADMINISTRATIVE -AU/ILIARY ACTIVITY	• • •	16	00	40	00	80	00	80	00	80	00	80	00	80
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED	-00	50	-00	310	000	27	000	000	000	000	000	000	000	000
FEDERAL GRANTS & CONTRACTS -SUBTOTAL	30	1023	30	1081	29	1139	36	1315	0 04	1427	0 41	1453	94	1573
INTERNATIONAL ACTIVITIES														
FEDERAL SALARY & EXPENSES	ro.	150	ß	170	Ŋ	171	Ŋ	171	ស	171	2	171	သ	171
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	-0	00	00	00	00	00	0 0	00	00	00	0 0
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RESTRICTED & CONTRACTS	00	o <b>o</b>	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	C)	150	വ	171	ß	173	5	173	S.	173	5	173	2	173
OFFICE OF THE REGISTRAR										-				
FEDERAL SALARY & EXPENSES	4	115	4	128	ည	156	7	214	7	224	7	234	7	245
- PROGRAM & ADMINISTRATIVE	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER	000	000	000	000	000	000	000	000	000	000	000	000	000	000
RESIRICIED FEDERAL GRANTS & CONTRACTS	00	00	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	4	115	4	128	5	156	7	214	7	224	7	234	7	245

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	7	1980	FΥ	1981	FΥ	1982	FΥ	1983	FY	1984	FΥ	1985	FY	1986
MUSEUM PROGRAMS	FTEMPL	(000)	FTEMPL	(000)	FT	(000)	FT	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)
CDNSERVATION ANALYTICAL LABORATORY					-									
FEDERAL SALARY & EXPENSES	22	654	29	915	ဗ	1073	45	1828	46	1978	49	2098	49	2173
UNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	•	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	22	654	29	915	33	1073	45	1828	46	1978	49	2098	49	2173
SMITHSONIAN INSTITUTION LIBRARIES														
FEDERAL SALARY & EXPENSES	66	2730	100	3072	100	3430	102	4253	104	4003	105	3962	105	3875
		214	o (	208	<b>О</b>	216	6	226	10	236	01	246	Ξ	256
-AUXILIARY ACTIVITY UNRESTRICTED SPECIAL PURPOSE	<u> </u>	0	<u> </u>	0	5	o	>	5	0	0	5	o o	э	<b>o</b>
-BUREAU ACTIVITY		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	00	0	0 0	0 0
	-	52	0	0 00	0	O O	0	0.0	0	2	00	13.0	00	13
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	108	2996	109	3288	109	3651	111	4489	114	4251	115	4224	116	4144
OFFICE OF EXHIBITS CENTRAL								-						
FEDERAL SALARY & EXPENSES	47	1259	47	1372	47	1409	54	1598	57	1685	59	1748	59	1763
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY		00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE	0	c	c	c	_	c	•	C	c	C	c	C	C	C
-ALL OTHER	00		00	- (	00	6 6	00	200	00	9	00	0.0	00	01
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	00	00	00	00	o <b>o</b>	00	00	00	00	00	00	0 0	00
-SUBTOTAL	47	1264	47	1373	47	1411	54	1608	57	1695	59	1753	59	1773

SMITHSONIAN INSTITUTION	APPLICATION OF OPERATING FUNDS	FY 1980 AND PROJECTED THROUGH FY 1986
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	7	1980	<b>≻</b>	1981	FY	1982	FΥ	1983	FΥ	1984	FΥ	1985	FΥ	1986
MUSEUM PROGRAMS	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)
TRAVELING EXHIBITION SERVICE														
FEDERAL SALARY & EXPENSES	9	161	9	175	æ	349	13	405	16	570	17	735	61	835
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-AUXILIARY ACTIVITY	8	1027	18	1065	21	1312	21	1368	21	1495	24	1584	26	1738
-BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED	00	90	00	480	00	00	00	00	00	00	00	00	00	0 0
FEDERAL GRANTS & CONTRACTS	0	25	0	25	0	25	0	25	0	25	0	25	0	25
-SUBTDTAL	24	1252	24	1745	29	1686	34	1798	37	2090	41	2344	45	2598
SMITHSONIAN ARCHIVES														
FEDERAL SALARY & EXPENSES	13	367	13	384	13	424	4-	443	15	466	15	473	5	483
	5	42	0.0	45	0.0	48	0.0	51	0.0	54	0.0	57	0.0	09
-AUXILIARY ACTIVITY UNRESTRICTED SPECIAL PURPOSE	>	0	5	0	<b>&gt;</b>	o	>	Э	<u> </u>	5	5	o o	5	>
-BUREAU ACTIVITY	00	0 +	0 0	00	00	<b>O</b> C	00	0 0	00	00	0 0	00	0 0	00
RESTRICTED	0	0	0	0	0	0	0	0	0	00	0	0	0	0
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	15	410	15	429	15	472	16	494	17	520	17	530	17	543
NATIONAL MUSEUM ACT										-				
FEDERAL SALARY & EXPENSES	က	794	е	808	9	811	က	1000	e	1000	က	1000	m	1000
ONRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	• •	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER	0 0	00	0 0	00	00	00	00	0 0	0	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	00	0	00	0	00	00	0	00	00	00	00	0	00	0
-SUBTOTAL	e	794	က	908	e	811	ဗ	1000	3	1000	9	1000	Э	1000
	-													

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	FΥ	1980	FΥ	1981	FΥ	1982	FΥ	1983	FY	1984	FΥ	1985	FY	1986	
MUSEUM PROGRAMS	FTEMPL	(000)	FT EMPL	(000) \$	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000) \$	FT EMPL	(000) \$	FTEMPL	(000)	
MUSEUM PROGRAMS-SUMMARY															
FEDERAL SALARY & EXPENSES	284	8396	293	9368	300	10354	348	12883	366	13264	379	13690	387	13994	
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	11	1027	11	262 1065	212	278 1312	2.2	291 1368	12	304 1495	12 24	317	13	330 1738	
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	-000	84 47 140 25	-000	63 1 519 25	0000	65 10 10 25	0000	42 11 10 25	0000	48 11 12 25	0000	53 11 25 25	0000	58 11 13 25	
-T0TAL	314	9996	323	11303	332	12046	380	14630	399	15159	415	15693	426	16169	



### SPECIAL PROGRAMS

Special Programs include the Office of American and Folklife Studies, the International Environmental Science Program, Academic and Educational Programs (including the Office of Symposia and Seminars, the Office of Elementary and Secondary Education, and the Office of Fellowships and Grants), the Collections Management/Inventory Program, the Research Awards Program, the Major Exhibitions Program and the trust-funded Collections Acquisition, Scholarly Studies, and Education Program. The FY 1982 request for an expanded Native American Indian Program is contained here, and the chapter also includes the special requests which may occur in the FY 1983 Congressional budget for the establishment of a federally supported Major Collections Acquisition Program, and the one-time purchase of institutional photocopying equipment. This chapter also consolidates the equipping requirements of the Museum Support Center for various Smithsonian organizations involved in its development. The resources associated with the International Environmental Science Program, the Fellowship Programs of the Institution, the Collections Management/Inventory Programs, and the trust-funded Collections Acquisition funds are generally available to all organizations of the Institution if they meet certain standards and selection procedures.

### Current Resources and Support

These programs in FY 1980 had total operating support of \$9,700,000 excluding excess foreign currencies which amount to the equivalent of \$4,200,000 in FY 1980.

#### A breakdown follows:

	FY	1980
	Full-Time	Funds
Source of Funds	Employment	(\$000)
Federal Salaries		
& Expenses	25	\$2,106
Unrestricted trust	13	7,3681/
Restricted trust	-	38
Federal Grants		
& Contracts Tota	$\frac{1}{39}$	$\frac{159}{\$9,671}$

Funding patterns vary, and include programs which are funded entirely from federal appropriations, to those funded solely through trust operations of the Institution. American and Folklife Studies, administered by the Assistant Secretary for History and Art, operates with both federal appropriations and trust funds and also seeks grants and contracts for special projects. Federal funds support the folklife administrative staff and expenses, research and

 $<sup>\</sup>frac{1}{2}$  This figure includes \$6,192,000 of special purpose funding for collections acquisition, education, and scholarly studies in FY 1980 incurred by various bureaus.

publication efforts, and two-thirds of the cost associated with the annual folklife festival, plus support for lecturers, instructors, and field researchers.

Trust funds cover the direct costs of the Visiting Research Fellowships and the recently established Regents' Fellowships, but administrative costs for the Office of Fellowships and Grants, the office which manages these programs, are essentially federally funded. In addition to administering the Institution's entire range of fellowship offerings, the Office of Fellowships and Grants also manages, for the Assistant Secretary of Science, the Special Foreign Currency Program.

The Office of Elementary and Secondary Education conducts its activities through federal appropriations, with only occasional trust funds or grants received for support of special meetings or conferences. The Office of Symposia and Seminars receives an annual allotment from trust funds for administration and direction of its activities, which include seeking outside support for the academic and intellectual conferences which it coordinates. Both offices are administered by the Assistant Secretary for Public Service.

The <u>International Environmental Research Program</u> was established in the early 1970's to promote interbureau research on environmental matters by funding special projects using the principal scientific strengths of such organizations as the Tropical Research Institute, Chesapeake Bay Center, Radiation Biology Laboratory, Natural History Museum, and the Zoo. These funds are federally appropriated and administered by the Assistant Secretary for Science.

Collections Management/Inventory Programs. In FY 1979, Congress appropriated special funds in the amount of \$500,000 to help allow the Institution to begin conducting a major inventory of its various collections, including those which are to be housed in the Museum Support Center. These funds in FY 1981 amount to \$582,000 and were allocated to the Museum of Natural History, Museum of American History, the Cooper-Hewitt, the Museum of American Art, and the Offices of Computer Services and Registrar to permit these units to initiate or continue important projects associated with the overall effort. Descriptions of the bureaus' activities underway are contained in the appropriate chapters; a breakdown of the FY 1981 estimated expenditures follows:

	FY 1981 Estimated
Museum of Natural History	\$285,000
Museum of American History	170,000
Cooper-Hewitt Museum	56,000
Office of Computer Services	32,000
Office of the Registrar	1,000
Museum of American Art	12,000
Remaining to be allocated	26,000
Total	\$582,000

The funds are administered by the Assistant Secretary for Museum Programs, working in close consultation with the Assistant Secretaries for Science and History and Art to assure that from year-to-year the most urgent projects are selected for funding through this appropriation.

Collections Acquisition, Scholarly Studies, and Education Program. In FY 1978, the Regents established a special trust account to be used for strengthening the Smithsonian's collections through purchase of major works of art and objects of scientific and historical value, and to allow for the funding of special projects important to the research and educational functions of the Institution. A total of \$8,000,000 (including a special reserve set aside for purchase of the Gilbert Stuart portraits of George and Martha Washington) in unrestricted trust funds had been approved by the Regents for allocation to bureaus through FY 1980: \$1,500,000 for scholarly projects, \$1,500,000 for educational activities, and \$5,000,000 for collections acquisitions. The Institution plans to allocate about \$2,000,000 to \$2,500,000 a year to this special trust-supported program.

These funds, along with about \$200,000 that had been earmarked in earlier years for similar purposes, have made possible a variety of important activities. For example, in addition to the Gilbert Stuart portraits, which will be shared every three years with the Boston Museum of Fine Arts and which are the two most important historical paintings ever to be acquired by the Portrait Gallery, a major collection was obtained of 26 contemporary American paintings (16 of which were donated) for the Museum of American Art. Another important acquisition in FY 1980 consisted of twelve scrolls of Chinese calligraphy, all of the finest quality and several of them unique works by the greatest masters in Chinese calligraphic history, for the Freer Gallery of Art.

These funds have also supported major scientific studies and educational efforts, scientific workshops and conferences, student intern programs, Native American training programs, presentations and performances for the handicapped and elderly, programs for the handicapped, an international symposium on children in museums, and weekend films and lectures for the general public. Beginning in FY 1982, the Institution will be seeking added resources through the federal appropriations process to supplement grant and contract and trust funding for activities directed to Native American Programs.

#### Future Year Prospectus

Trust support for Special Programs is contingent in future years on economic conditions, institutional priorities, and the abilities of the various auxiliary and revenue producing activities to sustain their popularity and financial performance. As stated, some slight increase in funding is expected for the Collections Acquisition, Scholarly Studies, and Education Program to allow for gradual growth in activities, including the Institution's television efforts.

The Office of American and Folklife Studies will continue to present its annual Festival of American Folklife, which is being rescheduled to the July 4 weekend period rather than Columbus Day holiday period in the fall. Additional program emphases during the planning period include research and

publication efforts, work on the major folklife exhibition at the Renwick Gallery, and cooperative planning with the Library of Congress' American Folklife Center and the National Endowments' folklife programs toward the possibility of engaging in a joint fieldwork and publication effort comprehensively documenting surviving American folkways.

Only minor increases are planned for the Office of Elementary and Secondary Education and for the Office of Symposia and Seminars. Funds for the special program for inventorying the Institution's collections are expected to increase from present levels to about \$800,000, with the added request presented in the FY 1982 budget. This will allow the Institution to maintain its current schedule for completing the inital inventory work.

No additional federal resources are expected to be necessary for the Office of Fellowships and Grants to administer fellowships and grants and the Special Foreign Currency Program, but increases are projected from trust funds for increasing fellowship stipends.

Until FY 1979, the Institution's fellowship offerings were supported principally with appropriated funds, but since then have been supported principally with nonappropriated unrestricted trust funds. This change is a consequence of the Regents' decision to apply trust funds to certain federal services. Approximately sixty full-year fellowships are now offered annually by the Smithsonian for doctoral candidates or recent recipients of the doctorate to receive advanced research training under the guidance of Smithsonian senior scholars. The pre- and postdoctoral fellowships program is widely endorsed by the Smithsonian staff. Progress in increasing the number of fellowship offerings has been slower than expected because periodic increases in the amount of each award have been required as the cost of living rises, and as fellowship programs comparable to the Smithsonian's offerings increase their award amount. The Institution will try to keep abreast of inflation and competitive changes, and some increases will be necessary for stipends and expenses.

The Regents' Fellowships are highly selective awards to scholars of distinction and breadth of intellect to pursue in-residence studies related to Smithsonian research. This year, three scientists in widely divergent fields will spend part or all of a year in residence at the Freer Gallery of Art, Air and Space Museum, and the Museum of American History. They will devote themselves to timely and important topics in their disciplines and are expected to publish major contributions to knowledge as a result, in part, of their Smithsonian work. The interaction with predoctoral, post-doctoral, and fully established colleagues adds significantly to the intellectual climate of the Institution. While not shown in the tables, some minor additional amounts also may be necessary for Regents' Fellows to cover the effects of inflation.

The <u>Special Foreign Currency Program</u>, which does not influence the federal salaries and expenses appropriations of the Institution, also is administered by the Office of Fellowships and Grants. Periodic increases of excess foreign currencies may be sought for important and timely projects. One such project has been to establish a reserve fund in Indian rupees for long-term support of the American Institute for Indian Studies (AIIS), a consortium of American universities and musuems whose members have

sustained research interviews in India. In FY 1982, \$1,000,000 equivalent in rupees have been requested for this purpose and additional increments may be requested in future years to ensure continuity of programs of the AIIS through a transition period after the depletion of the U.S. owned rupee account in India. Another project planned to begin in FY 1982 is the initial funding for the international salvage effort to preserve the ancient urban site at Moenjodaro, Pakistan. This project may require several years, and current plans are to apply annually about \$1,000,000 equivalent in Pakistani rupees over a four year period.

Increased federal appropriations will be sought in future years for the International Environmental Science Program which also contributes substantially to institutional research progress, and continues to be considered a high priority effort. The Program pursues environmental monitoring at two permanent Smithsonian sites -- the Chesapeake Bay Center and the Tropical Research Institute -- and at several temporary sites. Over the next five years, an effort will be made to strengthen the research work at these sites to monitor changes in the natural environment and to stay abreast of biological conservation affairs. Based on an outside review, the Institution has implemented a program of long-term environmental monitoring as an activity which matches the basic aims and purposes of the Institution's research programs. Increase funding will allow emphasis to be placed on defined parameters of watershed monitoring and on changes in marine indicators at the permanent stations. In addition, resources will be applied toward developing information from computer banks for use by land managers, and toward the establishment of monitoring sites in the Caribbean and China. More resources will be sought for the biogeographic work being done in the Amazon and for data analyses, publication and support costs.

Research Awards Program. The FY 1982 budget submission to the Office of Management and Budget contains \$300,000 to reestablish the Research Awards Program. Reestablishment of the program, which operated from FY 1966 through FY 1979, is considered important to the science programs of the Institution. In years past the science work supported by the program was often the best of the Institution's productivity. It offered opportunities to individual researchers to work in a collaborative fashion with colleagues located in other institutions and to conduct expeditions and other field projects. All projects were undertaken only after a careful and selective review process by peer group panels consisting of outside noninstitutional specialists. These external review procedures will continue and will provide insight into new scientific directions to assure the highest standard for research quality by basing the award solely on the scholar's competence in the field, the originality of approach, and the promise of providing new information on techniques in a particular field of scholarship.

The reestablished program will be administered centrally by the Office of Fellowships and Grants following all appropriate federal personnel and procurement practices and procedures along the pattern of the FY 1979 program. No funds were appropriated in FY 1980, and the Institution did not include funds for Research Awards in its FY 1981 request. Our interest in such a program remains high. Consequently, we are seeking renewed

funding of \$300,000 in FY 1982. If obtained, the program is projected to grow by FY 1986 to about \$500,000, a level which is considered adequate to meet the Institution's award needs.

Museum Support Center Equipment. Much of the equipment, especially the collections storage system, has to be ordered and fabricated well in advance to coincide with institutional occupancy of the building in FY 1983. The systems selected for purchase and installation at the Suitland facility provide efficient high-density storage on three, eight-foot-high storage levels, similar to multi-story library stacks. This system uses fixed, self-supporting metal racks and cabinets that can hold a variety of cases, shelves, and drawers, as needed, to meet the specific requirements of each of the collections. The equipping plan calls for obtaining about one-half of the storage equipment over the period FY 1981-85. Total equipment costs, including storage systems and other items, through FY 1985 are projected to be about \$16,800,000 with storage systems representing \$11,600,000 of this figure. To begin to meet equipment needs, an appropriated amount of \$2,311,000 was requested from Congress in FY 1981, in addition to \$400,000 already present in the Museum of Natural History's base for these purposes. In FY 1982, an additional \$1,784,000 is being sought, bringing the funding level to about \$4,495,000 in that year and in FY 1983. Federal appropriations for equipment are expected to begin to decline after FY 1983 and stabilize at about \$1,300,000 in FY 1986. To help fund the \$16,800,000 equipment requirements, the Institution expects to allocate about \$750,000 in trust funds for specialized conservation equipment in future years, and to redirect current rental funds for the Oceanographic Sorting Center (which is to be one occupant of the Suitland facility) to equipment needs during the planning period beginning with FY 1983.

Future year annual operating expenses are estimated to approximate \$4,400,000 by FY 1986. About \$2,800,000 will be required annually for plant operation and maintenance and repairs, utilities, protection services, and grounds maintenance. Also by this time, an annual amount of approximately \$1,650,000 will be required to staff and operate the Conservation Training Center and the collections work associated with the Natural History Museum. These operating requirements are being phased in as appropriate beginning with FY 1981. Most of the staffing and resource increases are to be sought in FY 1983, along with a large portion of the required expenses associated with moving the collections. Operating projections appear for the individual bureaus and organizations in the appropriate chapters of this document. These projections also are summarized (for both equipment and operations) in Table 13.

Major Exhibitions Program. Prior to and during the Bicentennial Year, the Institution maintained a separate major exhibits program. Funded by Congress for specific, carefully planned exhibitions whose costs were over and beyond that which could be financed by normal base resources, this program permitted coordinated planning, collecting and display activities devoted to timely topics of particular visitor interest. Many of the exhibitions so funded are still open to the public and occupy a large portion of exhibit space. Following the Bicentennial, however, this program was phased out and its funding was rejustified and redirected to other programs, especially

collection management efforts, which had been underemphasized. For FY 1981, however, the need for major new resources to revitalize exhibitions (especially at the Museum of American History) and to permit more joint exhibits activity among History and Art museums became evident. The resulting program, administered by the Assistant Secretary for History and Art at \$750,000 for FY 1981 presently supports the development of two large exhibitions, one commemorating the 250th anniversary of the birth of George Washington (at the Museum of American History) and one featuring the Smithsonian's collections of folklife materials drawn from all of our museums (at the Renwick Gallery), both of which will open in FY 1982. Future major exhibitions presently in the preliminary planning stage include the history of American science and its role in our society (at the Museum of American History), and a celebration of the 10th anniversary of the opening of the Hirshhorn Museum and Sculpture Garden with an exhibition drawing on 100 years of international sculpture. At this point, an annual support level of \$1,000,000 is considered adequate to continue to maintain an effective program.

Native American Program. The Smithsonian has long had an interest in the study of Native Americans. This interest dates back to the creation of the Bureau of American Ethnology in 1879. The Institution is presently updating its multi-volume research publication produced in those early years, the definitive Handbook of North American Indians. In addition, the Institution conducts training programs for Native Americans related to the care and preservation of artifacts. Over the years, the Smithsonian also has developed a sizable collection of Native American artifacts, now numbering approximately 800,000. Through its exhibition programs, it has sought to display the experience of the Native American, principally in the Museum of Natural History/Museum of Man.

With this background and interest in mind, institutional management has determined to expand its services to the Indian community related to the provision of training and technical assistance in the care and preservation of artifacts, the provision of information and guidance for proper maintenance of Indian artifacts, as well as the loan of such artifacts. In addition, in future years a major revision of present Institution exhibits needs to be undertaken to reflect contemporary knowledge of Native American cultures and history based on recent archeological, ethnographic, and historical findings. Funds for this purpose may be sought in FY 1983. A third element related to expanding the Institution's Native American Program involves ongoing discussions initiated by the Heye Foundation/Museum of the American Indian in New York, and encouraged by several members of Congress. These discussions, only in their beginning stages, in future years might result in the transfer of that museum's collections to the Smithsonian. No funds are being sought now but should a transfer come about, early estimates suggest that the costs of moving the collection to Washington might be in the neighborhood of \$2,000,000. Equipment to store it properly would run about \$2,400,000. To provide continuing collection care, management and conservation activities would be around \$400,000 per year. These early estimates are contained in the table projections for this chapter, but are subject to substantial revision as more information becomes available. It may also be necessary to establish additional storage space for this large collection. This project may prove to be a very welcome opportunity to

create a unified collection of Native American materials unparalleled anywhere in the world, greatly enhancing the Smithsonian's ability to relate the history and culture of Native Americans to all our citizens.

Major Collections Acquisition Fund. It is scarcely necessary today to dwell at great length about the pace at which art prices have been rising. The recent sales of a Turner painting for \$7,000,000 and of a Van Gogh for \$5,000,000 suffice to make the point; sales of individual works for \$1,000,000 or \$2,000,000, which used to be front-page news, no longer even elicit much comment. The Smithsonian has in its federal base appropriation about \$800,000 allocated to its numerous museums to purchase art and other important collection pieces for the National Collections. Recognizing the need to become more competitive with the contemporary situation, the Regents approved the establishment of the trust-funded Collections Acquisition, Scholarly Studies, and Education Program in FY 1978, to supplement the Institution's federal acquisitions base. Collections acquisition trust allocations amount to about \$1,000,000 per year. The Institution will continue energetically to solicit donations of important collections, art works, and artifacts, but even with these efforts, and the federal and trust support currently available, its museums are in a far less than advantageous position compared to the leading private museums in this country and the national museums abroad.

Consequently, in FY 1983 the Smithsonian will be seeking to establish through the appropriations process a new, centrally administered major acquisition fund of \$10,000,000 in its initial year of operation to remain available until expended. It is planned that the fund would be replenished as it is used from year-to-year, with about \$5,000,000 representing the average replenishment request beyond FY 1983.

The fund will benefit not so much the Smithsonian as the millions of visitors today, and in future generations, who come from all sections of the nation to view their heritage contained in the national museums. The Institution will not shirk its responsibilities to the citizens of this country with regard to acquiring important items for the National Collections, but will need a much larger commitment from the federal government.

Photocopy Equipment Purchase. A one-time purchase of photocopying equipment is planned. A request will be contained in the FY 1983 budget submission to the Office of Management and Budget for this, but the funds do not affect resource projections for future years FY 1984-86. Approximately 70 percent of the copying machines in use at the Institution are leased. This request, which results from a recommendation of the internal audit staff, over time would effect significant cost savings (estimated at approximately \$960,000) through the purchase and improved management of the equipment.

#### Special Programs Resource Growth

Overall support of Special Programs may approach \$17,000,000 in FY 1986, rising from present levels of \$9,700,000. Substantial growth in federal funding is planned for Museum Support Center operations, the establishment of a Major Collections Acquisition Fund, extensive revamping of

Native American exhibitions and the possible transfer and care of an important American Indian collection. The Institution also is seeking to reestablish federal funding for the Research Awards Program. Additional trust support is planned for fellowship stipends and the Collections Acquisition, Scholarly Studies, and Education Program. Trust support is also planned for purchase of some conservation equipment for the Museum Support Center.

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	<u>۲</u>	1980	7	1981	F	1982	FY	1983	F	1984	FY	1985	F	1986
SPECIAL PROGRAMS	EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)
AMERICAN STUDIES & FOLKLIFE PROGRAM														
FEDERAL SALARY & EXPENSES	4	447	ß	534	70	591	2	657	S	677	വ	269	വ	742
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	10	405	= 0	467	= 0	480	=0	425 0	10	400	-0	375	-0	350
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER	0 0	54	00	129	00	21	00	10	00	10	00	10 75	00	10 75
FEDERAL GRANTS & CONTRACTS	0	102	0	150	0	150	0		0	150	0	150	0	150
-SUBTOTAL	15	1008	16	1294	16	1292	16	1317	16	1312	16	1307	91	1327
OFC OF ELEMENTARY & SECONDARY EDUCATION													_	
FEDERAL SALARY & EXPENSES	9	179	7	261	7	298	7	298	60	314	8	324	8	344
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	20	00	20	00	26	-0	29	-0	29	-0	31	-0	31
	•	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER	0	44	00	00	00	0 6	00	<u>о</u>	00	0 1	00	0	00	0 4
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	20	0		0	0	0	0	0	
-SUBTOTAL	9	254	7	300	7	337	8	342	6	358	6	373	6	393
OFFICE OF SYMPOSIA & SEMINARS														
FEDERAL SALARY & EXPENSES	ю	68	က	79	n	81	n	91	ю	91	ო	93	က	93
ONRESIRICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	-0	85	-0	82	-0	88	-0	100	-0	106	-0	110	-0	110
UNRESIMICIED SPECIAL PURPUSE -BUREAU ACTIVITY	0	6	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED	00	18	00	29	00	0 M	00	35	00	09	00	35	00	20
FEDERAL GRANTS & CONTRACTS	0	m	0	50	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	4	186	4	240	4	172	4	226	4	257	4	238	4	253

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	¥	1980 A	AND PRO	PROJECTED	тнкоисн	JGH FY 1	986							
	F	1980	F	1981	FΥ	1982	F	1983	FΥ	1984	FY	1985	FΥ	1986
SPECIAL PROGRAMS	FT EMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT	(000)	FT EMPL	(000)
OFFICE OF FELLOWSHIPS & GRANTS									-					
FEDERAL SALARY & EXPENSES	6	231	6	263	– თ	270	σ	272	6	272	6	272	σ	272
	-0	26	-0	24	-0	25	-0	20 0	-0	27	-0	29	-0	30
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	0000	425 6 6	0000	800 16	0000	900	0000	1000	0000	1100	0000	1150	0000	1200
-SUBTOTAL	10	688	10	1103	10	1207	10	1309	10	1410	10	1462	0_	1513
REGENT'S FELLOWSHIPS														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER	00	108	00	100	00	100	00	100	00	100	00	000	00	100
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	00	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	0	108	0	100	0	100	0	100	0	100	0	100	0	100
INTERNAT'L ENVIRONMENTAL SCIENCE PROGRAM									,,,					
FEDERAL SALARY & EXPENSES	7	408	7	501	N	979	0	702	7	772	0	857	0	932
ONKESTRICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -All DIHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	000	000	000	000	000	000	000	000	000	00	000	000
-SUBTOTAL	2	408	7	501	8	626	2	702	2	772	2	857	2	932

SMITHSONIAN INSTITUTION
APPLICATION OF DPERATING FUNDS
FY 1980 AND PROJECTED THROUGH FY 1986

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TABLE

	<u>-</u>	1980 A	AND PR	PROJECTED	HKOOGH	<b>-</b>	1986							
	FΥ	1980	F	1981	FΥ	1982	FΥ	1983	FΥ	1984	FΥ	1985	FΥ	1986
SPECIAL PROGRAMS	FT EMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	FT EMPL	(000)
RESEARCH AWARDS PROGRAM														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	300	0	350	0	400	0	450	0	200
UNKESTRICIED GENERAL -PRDGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0 0	0 (		0 0		00	0 0	0 (	00	0 0	0.0	0 0	00	
FEDERAL GRANTS & CONTRACTS	000					000	000	000	000	000	000	000	000	000
-SUBTDIAL	0	0	0	0	0	300	0	350	0	400	0	450	0	200
CDLLECTIONS MANAGEMENT/INVENTORY PRDGRAM														
FEDERAL SALARY & EXPENSES	0	543	0	582	0	792	0	798	0	798	0	798	0	798
UNKESTRICIED GENERAL -PRDGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00		00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	•	0		0	0	0	0	0	0	0	0	J
-ALL OTHER	00	00	00	00	00	00	00	00	00	0 0	00	00	00	00
FEDERAL GRANTS & CONTRACTS	0	0	0	0		0	0	0	0	0	0	0	0	
-SUBTOTAL	0	543	0	. 582	0	792	0	798	0	798	0	798	0	798
CDLLECTIONS ACQ., SCHOLARLY STUDIES, * EDUCATIONAL OUTREACH & FLUID RSCH. AWARDS					,									
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00		00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	00	00	00	0	•	0 0000	00	0	0	0	00	0	00	0.020
RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	•••		000		000	000	000	000	000	000	000	
-SUBTOTAL	0	0	0	2200	0	2200	0	2700	0	2700	0	2700	0	2700

\*Expenditures for this special program were \$6,192,000 in FY 1980, and were incurred by various bureaus.

\*See Table 13 for additional information, including operational resource projections.

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 19B0 AND PROJECTED THROUGH FY 1986

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	<u> </u>	1980	7.7	19R1	7	1982	7	1983	7	1984	Ę	1985	> 4	19R6
SPECIAL PROGRAMS	FT	(000)	FT	(000)		(000)	FT	\$ (000)	FT	(000)	FTEMPL	(000)	FT	(000)
MUSEUM SUPPORT CENTER EQUIPMENT *														
FEDERAL SALARY & EXPENSES	0	195	0	2711	.0	4495	0	4400	0	3200	0	1200	0	1300
· UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALCOTHER RESTRICTED	00	00	000	00	00	00	00	000	00	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	0	195	0	2711	0	4495	0	4400	0	3200	0	1200	0	1300
MAJOR EXHIBITIONS PROGRAM														
FEDERAL SALARY & EXPENSES	0	0	0	750	0	1000	0	1000	0	1000	0	1000	0	1000
INNESTRICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
_	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	0	0	0	750	0	1000	0	1000	0	1000	0	1000	0	1000
NATIVE AMERICAN PROGRAM														
FEDERAL SALARY & EXPENSES	-	35	-	53	7	353	7	853	22	4353	22	2253	22	1253
ONNESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0		0	0	0	0	0
-ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	ပဝ	00
FEDERAL GRANTS & CONTRACTS	-	54	-	74	0	0	0	0	0	0	0	9	0	0
-SUBTOTAL	2	89	2	127	2	353	2	853	22	4353	22	2253	22	1253

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TABLE

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

				2000											_ 1
	F	1980	F	1981	FY	1982	FΥ	1983	FΥ	1984	FY	1985	FΥ	1986	
SPECIAL PROGRAMS	FT	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FTEMPL	(000)	
MAJOR COLLECTIONS ACQUISITIONS															
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	10000	0	2000	0	5000	0	5000	
UNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
-SUBTOTAL	0	0	0	0	0	0	0	10000	0	2000	0	5000	0	2000	
PHOTO COPIER EQUIPMENT PURCHASE															
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	458	0	0	0	0	0	0	
ONKESTRICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	00	00	00	00	00	00	00	00	00	00	00	00	o <b>o</b>	00	
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
FEDERAL GRANTS & CONTRACTS	0	00	0	00	0	0	0	0	0	0	0	0	00	. 0	
SUBTOTAL	0	0	0	0	0	0	0	458	0	0	0	0	0	0	
SPECIAL PROGRAMS-SUMMARY															
FEDERAL SALARY & EXPENSES	25	2106	27	5734	28	8806	28	19879	49	16877	49	12944	49	12234	
- PROGRAM & ADMINISTRATIVE - AUXILIARY ACTIVITY	13	536	£ 0	6 <b>6</b> 3	0	619	40	580	40	562	40	545	40	521	
UNKESIKICTED SPECIAL PURPUSE -BUREAU ACTIVITY	0	6-1	0	0	0	0	0	0	0	0	0	0	0	0	
-ALL OTHER	0 0	649	0 0	3114	00	3221	0 0	3810	00	3910	0 0	3960	00	4010	
FEDERAL GRANTS & CONTRACTS	) <del>-</del>	159	) <del>-</del>	274	00	150	00	150	00	150	00	150	00	150	
-TOTAL	39	3479	14	8066	41	12874	42	24555	63	21660	63	17738	63	17069	
															٦

Foreign Currency appropriations in FY 1980 amounted to \$4,200,000; FY 1981 = \$3,650,000; FY 1982 = \$5,500,000; FY 1983-86 projected at \$7,000,000. NOTE:

### ASSOCIATES PROGRAMS

Founded in 1965 on the 200th birthday of James Smithson, the original Associates Program was designed especially for residents of the Washington metropolitan area, drawing on the varied resources of the Institution to provide educational and cultural opportunities to individuals or families who chose to join. The larger institutional aims in public education, however, have always been to make Smithsonian resources increasingly accessible to people of all ages and without regard to their geographical distance from the National Mall. With the establishment of the Smithsonian Magazine in April 1970 as a major benefit and feature of a membership program, the original Smithsonian Associate Program has evolved now to include separate National and Resident organizations which offer educational and learning experiences geared to public constituencies in the Washington area, as well as across the country.

This chapter covers recent performance, plans, changes in activities, and resource estimates for Associates programs, including the National and Resident Associate Programs, the Office of Membership and Development which coordinates these programs, and the Magazine.

#### Current Resources and Support

These trust-funded operations had FY 1980 auxiliary activity revenues totaling approximately \$44,800,000 and 145 employees. Minor amounts were also available from special purpose funds, restricted gifts and grants and from federal grants and contracts. As a group they generated approximately \$5,800,000 in unrestricted trust income for the Institution in FY 1980 after cost of sales, payroll, and other operating expenses. Gross expenses for unrestricted trust auxiliary operations amounted to about \$39,000,000.

The Resident Associate Program offers a variety of popular classes, lectures, tours and other activities for members in the metropolitan Washington area. It has been self-supporting since 1972, generating modest surpluses each year which are added to the unrestricted funds of the Institution.

Elements of the National Associate Program are the educational travel services, the contributing membership program, the regional events program, and the selected studies seminars. The National Associate Program is not expected to produce net income except for the travel and contributing membership programs.

The fund-raising and administrative costs of the Office of Membership and Development are considered as an expense item against unrestricted funds. Contributions to the Smithsonian in FY 1980 approximated \$2,300,000 from corporations and foundations. This figure does not include the contributing membership program, contributions from the members of the James Smithson Society, nor contributions toward the Quadrangle project.

The Magazine has been one of the most successful public education ventures established by the Institution. Its general acceptance is a tribute to the role it has played in filling a need for style and elegance, as well as lucid reporting on cultural and scientific developments taking place in today's world. The largest portion of the resources for this group of activities is contained within the operations of the Magazine. In FY 1980, the expenses of this trust fund activity were approximately \$29,900,000 and the Institution realized a net surplus of \$5,902,000. The surplus will continue to fund various educational and program operations of the Institution described elsewhere.

A breakdown of FY 1980 estimated income and expenses related to general unrestricted trust fund operations of the Associate Programs follows:

		Full-Time Employment	FY 1980 Unrestricted Funds (\$000s)
INCOME:			
Development Office Resident Associate National Associate Magazine	-		\$ - 2,325 6,636 35,829 \$44,790
EXPENSES:			
Development Office Resident Associate National Associate Magazine	_	8 39 23 75 145	\$ 282 2,303 6,447 29,927 \$38,959
Net Gain			\$5,831

#### Future Year Prospectus

Resident Associate Program. Membership, now at 51,000 with an annual retention rate of 79%, will probably increase gradually to about 60,000 by FY 1986-87. The Resident Associate Program will continue to organize high quality, innovative, scholarly and educational opportunities for adults and young people through courses, seminars, lectures, workshops, and behind-the-scenes tours.

Special emphasis has been placed on courses geared for office workers and the retired. "Courses at noon" was initiated in 1980 and will be expanded in future years. One- and two-day seminars will be expanded. Scholarships will be offered to inner-city children. Opportunities for visually and

hearing handicapped participation will be continued. Art posters will be occasionally commissioned to commemorate Smithsonian events and offered for sale to the membership. The computer-based membership system will be upgraded to an on-line capacity, and the editorial, typesetting and printing functions for the Associate newsletter will be automated, both serving to increase program responsiveness. However, the acute problem of space requirements for staff and classrooms remains critical; relief from this situation is programmed into the Quadrangle development project.

National Associate Program. The travel, regional events, and selected studies activies will all continue. Increasing energy costs and recessionary erosion of consumers' disposable income, however, may adversely affect growth in the travel program, both foreign and domestic tours, in the FY 1982-83 period. Higher air fares present problems for staff travel in connection with developing regional events, and in enrollment by National Associate members to come to Washington for the five-day selected studies programs. Airline cosponsorships are being sought to alleviate the problem. United Airlines has already agreed to participate.

The contributing membership of the National Associates is forecast to more than double, from 12,000 to 30,000 members, producing a net surplus by 1986 or 1987 of \$1,000,000 or more. The projected overall performance for National Associates indicates an FY 1983 surplus of around \$300,000.

The Development Office will continue to respond to the various project or acquisition needs of the bureaus and will be deeply involved in fund raising for the Quadrangle project, including a large-scale corporate drive. There will be continued emphasis on the deferred giving program launched in September 1979.

Projecting future trends in individual and foundation philanthropy is difficult, with both depending heavily on the state of the U.S. and world economy. However, corporate support of art and culture has been growing over recent years. The Development Office has been involved with gifts and grants to the Institution and its many organizations of approximately \$2,000,000 per year. Assuming economic recovery by FY 1983 and a period of healthy growth, prospects for increased private support of the Institution seem favorable.

Smithsonian Magazine. Although the Magazine's management is justifiably cautious about the ebb and flow of fashion in publishing, it also expects that the demand for its product will remain strong, with an annual financial surplus estimated at \$5,000,000 to \$6,000,000 over the next few years. It is primarily from these funds that the Board of Regents has been able to budget for the \$2,000,000 program for acquisitions, scholarly studies and educational outreach projects, to fund certain expenses previously met with federal appropriations, and to set aside sums each year for the development of the Institution's reserves. The Magazine will continue to produce a high quality product and to be supported entirely by the trust revenues which it generates. Net growth in subscribers is expected to average 50,000 a year from the present level of about 1,850,000. Due to inflationary cost increases associated with production and mailing, subscription rates may increase in late FY 1982 and FY 1984.

#### Associates Programs Resource Growth

Unrestricted trust operations for this group of activities are expected to increase from present levels of revenues generated by about \$34,200,000 and expenses are projected to increase about \$33,900,000 The resulting growth over FY 1980 in the net surplus expected to be available for application to various activities and programs of the Institution is about \$300,000. No additional support is projected in restricted trust areas, and only occasional and undetermined amounts from grant and contract activities can be expected.

							,													
(1)	1986	(000)		0	347	500	0	357		0	57238	00	00	57238		0	12195	00	00	12195
60	FY	FT EMPL		0	80	000	0	8		0	0 85	00	00	82		0	28	00	00	28
TABLE	1985	(000) \$	<del>- 1 \ 10 \ 10</del>	0	330	000	0	340		0	51121	00	00	51121		0	11357	00	00	11357
	FY	FT EMPL		0	800	000	0	8		0	95	00	00	85		0	26	00	00	26
	1984	(000)		0	315	000	0	325		0	46151	00	00	46151		0	10173	00	00	10173
	FΥ	FT EMPL		0	<b>m</b> 0	000	0	8		0	82		00	85		0	26	00	00	26
	1983	(000)		0	300	000	0	310		0	41123	00	00	41123		0	9927	00	00	9927
986	FΥ	FT EMPL		0	80	000	0	8		0	83	00	00	83		0	25	00	00	. 25
ION G FUNDS GH FY 1	1982	(000)		0	285	500	0	295		0	37005	00	00	37005		0	9444	00	00	9444
INSTITUTION OPERATING F ED THROUGH	7	FT EMPL		-0	80	000	0	æ		<b>O</b> .	83	00	00	83		0	24	00	00	24
<b>—</b>	1981	(000)		0	271	500	0	281		0	33919	00	<b>0</b> 0	33919		0	7335	00	00	7335
SMITHSONIAN LICATION OF AND PROJEC	F Y	FT EMPL		0	80	000	0	8		0	77	00	00	77		0	23	00	00	23
SMITHSONIAN APPLICATION OF 1980 AND PROJEC	1980	(000)		0	282	2 <u>1</u> 00	0	297		0	29927	00	00	29927		0	0 6447	00	00	6447
F Y	FY	FT EMPL		0	80	000	0	8		0	75	00	00	75		0	23	00	00	23
		ASSOCIATES PROGRAMS	OFFICE OF MEMBERSHIP'& DEVELOPMENT	FEDERAL SALARY & EXPENSES	UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER	FEDERAL GRANTS & CONTRACTS	-SUBTOTAL	SMITHSONIAN MAGAZINE	FEDERAL SALARY & EXPENSES	UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	UNKESIKICIED SPECIAL PUKPUSE -BUREAU ACTIVITY -ALI OTHER	RESTRICTED FEDERAL GRANTS & CONTRACTS	-SUBTOTAL	NATIONAL ASSOCIATES PROGRAM	FEDERAL SALARY & EXPENSES	UNKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER	RESTRICTED FEDERAL GRANTS & CONTRACTS	-SUBTOTAL

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	F	1980	FY	1981	FY	1982	FΥ	1983	FΥ	1984	Ρ¥	1935	FΥ	1986
ASSOCIATES PROGRAMS	FT EMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	\$ (000)	FTEMPL	(000)	FT EMPL	(000)	FT EMPL	(000)
RESIDENT ASSOCIATES PROGRAM														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	300	2303	0 4 0	2425	0 4 0	2562	0 4	2690	0 0	2824	0 4	2971	0 0	3120
UNRESIRICIED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	0000	1 15	0000	0007	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
-SUBTOTAL	39	2367	40	2452	40	2562	40	2690	40	2824	40	2971	40	3120
ASSOCIATES PROGRAMS-SUMMARY														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-PROGRAM & ADMINISTRATIVE -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	137	282 38677	140	43679	147	285	148	300	151	315 59148	151	330	153	347 72553
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL DIMER	00	16	00	00	00	000	00	0.0	00	000	00	000	00	000
RESTRICTED FEDERAL GRANTS & CONTRACTS	000	15	000	27	000	000	000	000	000	000	000	000	000	000
-TOTAL	145	39038	148	43987	155	49306	156	54050	159	59473	159	65789	161	72910
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### BUSINESS MANAGEMENT ACTIVITIES

This section covers plans, changes in activities, and resource estimates for selected auxiliary, or revenue producing activities conducted under the auspices of the Business Management Office, including the Museum Shops, Mail Order Division, Concessions, Parking, and the Belmont Conference Center. It does not include the revenue producing activities of the Division of Performing Arts, Smithsonian Press, Traveling Exhibition Service, and the Exposition Book program. These activities are presented in appropriate chapters and tables corresponding to the organization of the Institution and the FY 1982 budget submission to Congress.

The operations described in this section, like the Institution's associates programs, represent an effort to offer the public a diverse range of services, adding to the pleasure derived from the exhibition and educational experiences available to the visitor.

#### Current Resources and Support

In FY 1980, these trust-funded operations had revenues totaling approximately \$17,400,000 and 184 employees. As a group they generated approximately \$2,800,000 in unrestricted net income for the Institution in FY 1980 after cost of sales, payroll, and other operating expenses. Unrestricted income and expenses for FY 1980 are summarized below:

	1980 Full-Time Employment	FY 1980 Unrestricted Funds (\$000)
INCOME: Business Management Office Museum Shops Mail Order Division Concessions Parking Belmont Total		\$ - 8,529 6,059 1,476 951 370 \$17,385
EXPENSES: Business Management Office Museum Shops Mail Order Division Concessions Parking Belmont Total	3 123 29 2 19 8 184	\$ 155 7,859 5,707 134 355 406 \$14,616
Net Gain		\$ 2,769

Museum Shops. Sales desks have been a part of Smithsonian operations since the 1860's, but substantial sales have only come about in recent years. Centrally managed museum shops are located now in the Museum of American History, the Museum of Natural History, the Arts and Industries Building, the Air and Space Museum, the Hirshhorn Museum and Sculpture Garden, the Museum of American Art, the Portrait Gallery and the Renwick Gallery.

Items offered for sale in museum shops relate to the education value of the individual's visit, and are relevant to the collections, appropriate to the museum where sold, and in conformity with high standards of quality and taste. An important segment of the items offered are catalogs and publications related to exhibition themes and subjects, including those written by Smithsonian scholars. Craft products, reproductions of artifacts, and educational games and toys for children are also sold.

Mail Order Division. In 1975, a mail order division was formed. Both Christmas and spring catalogs are offered each year, and a summer catalog may be offered on an annual basis in future years. Approximately 150,000 catalog orders are filled annually through the Division's receiving and shipping center in Springfield, Virginia.

Concessions. Through concession arrangements, the Institution provides visitors with restaurant facilities and recorded tour rental systems in the major Smithsonian museums. A bookstore operates on a concession basis in the Museum of American History. Other concessions include the popular carousel and popcorn wagons on the Mall during the spring and summer.

Parking. Parking revenues are generated by the parking garage located under the Air and Space Museum, as well as through the employee paid parking program. It is anticipated that underground parking facilities planned for the Quadrangle development project will be operated by the Business Management Office, and the revenues generated will offset partially the costs of construction of this facility.

Belmont Conference Center. The Center, which opened in 1967, is located between Washington and Baltimore and is operated by the Smithsonian to provide a setting for scholarly conferences and related gatherings both for its own activities and for other nonprofit and governmental organizations and institutions. The limited size of this facility has necessitated in years past an operating subsidy of approximately \$50,000 to \$100,000 per year.

#### Future Year Prospectus

Museum Shops. Closely related to visitation, sales should continue to grow at a modest rate. For the most part, there is little opportunity or room for spatial expansion without affecting museum operations.

Priority will be given, therefore, to enhancing and strengthening existing systems, a step which is particularly appropriate in light of the dramatic increase in the size of shop operations in recent years. Current plans include the possible installation of a computerized retail system and the relocation of administrative offices from the Museum of Natural History to a nearby commercial building.

Mail Order Division. Since its inception five years ago, and with the expansion of Associate Programs, the Mail Order Division has experienced substantial growth. Due to establishment and start-up costs, mail order operations were not expected to realize a surplus of income over expenses until sometime in FY 1981. Enthusiastic acceptance on the part of the Associates and the general public has resulted in the Institution being able to realize a slight surplus in FY 1980. Improvements in marketing systems and automated order processing are expected to continue to have a positive effect in future years. However, mail order operations are subject to greater risk than either museum shops or concessions, both of which are more directly related to institutional visitations.

Concessions. Concession income is expected to continue to grow moderately. At present, a number of alternatives are being considered for strengthening food service operations which should result in additional revenues and extended public services in future years.

As existing contracts expire, they will be reviewed with a view towards replacing concession operations with internally managed facilities.

Parking. Parking revenues are expected to grow during the next two years, largely because of scheduled rate increases. The longer range outlook, however, is for a downward trend as the energy shortage and associated costs alter visitor commuting and travel plans.

Belmont. The Belmont Conference Center will continue to incur a slight loss due to the limited size of the facility. With the approval of the Board of Regents, current plans entail finding a suitable buyer for the property, and the projections for future years reflect the discontinuation of this activity by FY 1983-84.

#### Auxiliary Activities Resource Growth

Unrestricted trust operations for this group of activities are expected to increase from present levels of revenues generated by about \$7,500,000, and expenses are projected to increase about \$7,000,000. The resulting growth over FY 1980 in the net surplus expected to be available for application to various activities and programs of the Institution is about \$500,000.

SMITHSONIAN INSTITUTION
APPLICATION OF OPERATING FUNDS
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	F	1980	F	1981	FΥ	1982	FΥ	1983	FΥ	1984	FΥ	1985	FΥ	1986
BUSINESS MANAGEMENT	FT EMPL	\$ (000)	FT	\$ (000)	FT	(000)	FT EMPL	(000)	FTEMPL	(000)	FT	(000)	FT	(000)
BUSINESS MANAGEMENT OFFICE													-	*
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-PROGRAM & ADMINISTRATIVE -PROGRAM & ADMINISTRATIVE	0 m	155	30	187	0.6	200	0 m	215	00	230	0 0	245	0 m	260
UNMESTRICIED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL DTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
-SUBTOTAL	3	155	3	187	С	200	3	215	e	230	e	245	e	260
MUSEUM SHOPS														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	123	7859	123	8540	123	9315	124	9750	125	10225	126	10725	127	11250
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER	00	00	00	00	00	00	00	00	00	00	00	00	00	00
RESTRICTED FEDERAL GRANTS & CONTRACTS	00	00	00	00	00	00	00	00	00	00	00	00	00	00
-SUBTOTAL	123	7859	123	8540	123	9315	124	9750	125	10225	126	10725	127	11250
MAIL ORDER DIVISION														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	29	5707	32	0 69 0	32	7825	32	8250	33	8700	33	9190	33	0896
-BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	000	000	000	000	000	000	000	000	000	000	000	000
-SUBTOTAL	29	5707	32	0269	32	7825	32	8250	33	8700	33	9190	33	9680

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECTED THROUGH FY 1986

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	Ŧ	1980	F	1981	FΥ	1982	F	1983	FΥ	1984	FΥ	1985	FY	1986
BUSINESS MANAGEMENT	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)
CONCESSIONS														
FEDERAL SALARY & EXPENSES	0	0	0	0	_0	0	0	0	0	0	0	0	0	0
UNRESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	0 0	134	0 0	164	0 0	172	0 0	180	.00	190	0 7	200	00	215
		c	c	C	C	C	o	c	o	C	0	c	c	C
-ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	000	000	0000	000	000	000	000	000	000	000	000	000	000
-SUBTOTAL	2	134	7	164	7	172	2	180	2	190	7	200	7	215
PARKING OPERATIONS														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ONKESIKICIED GENEKAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	0 6	355	0 6	0 414	0 6	449	0 61	480	0 1	510	19	0 545	0 6	580
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	-0	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED	00	00	00	00	00	00	00	00	00	00	00	00	00	<b>0</b> 0
FEDERAL GRANTS & CONTRACTS	0		0	0						0	0	0	0	0
-SUBTOTAL	19	355	19	414	19	449	19	480	61	510	19	545	6-	580
BELMONT CONFERENCE CENTER														
FEDERAL SALARY & EXPENSES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08	406	0 8	446	0 8	461	00	50	00	00	00	00	00	00
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-ALL OTHER RESTRICTED	00	00	00	00	00	00	00	00	00	00	00	00	00	00
FEDERAL GRANTS & CONTRACTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-SUBTOTAL	8	406	89	446	60	461	0	20	0	0	0	0	0	0

SMITHSONIAN INSTITUTION
APPLICATION OF OPERATING FUNDS
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	7 7	1980 AND		FY 1981 FY 1982	FY		1986 FY	1983	7	1984	F	1985	FΥ	1986	
BUSINESS MANAGEMENT	FT	FT \$ EMPL (000)	FT	(000)	FT	(000)	FT	(000)	FTEMPL	(000)	FT EMPL	(000)	F1 EMPL	(000)	
BUSINESS MANAGEMENT-SUMMARY					del										
FEDERAL SALARY & EXPENSES UNRESTRICTED GENERAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-PROGRAM & ADMINISTRATIVE	184	14616	187	16721	187	18422	180	18925	182	0 19855	183	20905	184	21985	
UNRESIMICTED SPECIAL PURPUSE -BUREAU ACTIVITY DESTRICTED	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
FEDERAL GRANTS & CONTRACTS	0	00	0	0	0	0	0	00	00	0	0	0	0	0	
-TOTAL	184	14616	187	16721	187	18422	180	18925	182	19855	183	20905	184	21905	
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															_

# ADMINISTRATIVE, FINANCIAL, AND OTHER SUPPORT SERVICES

This group of organization units includes the central administrative, financial, and other support services which provide overall planning, policy determination, direction, and leadership to the Institution; management of its resources; and evaluation of its work. These units furnish legal counsel, financial management, public information, and other administrative, professional, and technical services required to support the Smithsonian's programs; to maintain, operate, and protect its physical plant; to perform health and safety services; and to assure that the Institution complies with all appropriate laws and regulations and is fully accountable for its actions.

Administrative, financial, and other support services include the central management offices provided by the Offices of the Secretary, Under Secretary, Assistant Secretary for Administration, General Counsel, Treasurer, Coordinator of Public Information including Congressional Liaison, and Director of Facilities Services. They also include the following specialized administrative and technical offices: Accounting Services, Audits, Contracts, Computer Services, Equal Opportunity, Grants and Risk Management, Investment, Management Analysis, Personnel Administration, Printing and Photographic Services, Programming and Budget, Public Affairs and Special Events, Supply Services, and Travel Services. Support services also consist of three major facilities offices: Design and Construction, Plant Services, and Protection, with primary orientation to the physical plant and its contents and to safety and health services for visitors and staff.

#### Current Resources and Support

These organization units had FY 1980 resources totaling \$43,700,000 and 1,342 full-time employees. Of this total, approximately \$37,500,000 and 1,168 full-time employees are provided from appropriated funds and \$6,200,000 and 174 employees are allocated within the Institution's non-appropriated trust fund budget. A breakdown of resources (before application of overhead recovery) follows:

		FY 198	0	
	Federa	.1 S&E	Trust	Funds
	Full-Time	Funds	Full-Time	Funds
Subgroups	Employment	( <u>\$000s</u> )	Employment	( <u>\$000s</u> )
Central Management Offices Specialized Administrative	41	\$1,390	23	\$1,397
and Technical Offices	216	6,391	139	5,899
Facilities Offices	911	29,734	12	896
Totals	1,168	\$37,515	174	\$6,192

Unrestricted trust funds are allotted to the management and support units to provide an appropriate balance of federal appropriations and trust funds reflecting the services they provide. Primarily these funds are used for personnel who perform assignments similar to those of staff paid from appropriated funds. Several support units administer unrestricted trust funds for more specialized purposes. The Office of Printing and Photographic Services receives income from the sale of photographic materials to the public. The computer cost center of the Office of Computer Services and the audiovisual unit of the Office of Plant Services operate on a cost recovery basis by charging users for the services provided.

#### Future Year Prospectus

Major emphases of the central management offices will be the realization of the Quadrangle project, the strengthening of the Institution's equal opportunity and affirmative action programs and the supervision of the administrative and support functions to assure their responsiveness to the needs of the research, collections management, and public education functions. Continued strong attention will be given to the legal oversight of and counseling on the Smithsonian's programs and to the continued improvement of financial management, accounting, monitoring, and reporting systems. Information about the Smithsonian will be provided to the public in informative and interesting ways and the Congress will be kept informed of institutional programs and progress. Special attention will continue to be given to programs for building repairs, improvements and security and to employee and visitor health and safety. No major changes to the resource levels of the central management offices are projected for the period of FY 1982-1986. These resources, consisting in FY 1980 of \$2,787,000 and 64 positions in the appropriated and nonappropriated funds budgets, are projected to increase to \$3,640,000 and 69 positions by FY 1986, a growth of \$853,000 and 5 positions. Principal additions are represented by the Office of the General Counsel in recognition of a growing volume of legal work reflecting the diversity of the Institution and increasing complexity of the law and by the rising costs of printing required by the Coordinator of Public Information.

The specialized administrative and technical offices' resources in FY 1980 totaled \$10,290,000 and 355 positions, including both appropriated and nonappropriated funds. An additional \$4,367,000 and 29 positions are projected over the planning period which, if realized, would result in total resources of \$14,657,000 and 384 positions. The most significant changes are planned and programmed for Accounting, Grants and Risk Management, Personnel, Printing and Photographic Services, and Computer Services.

Efforts will continue to improve and strengthen financial administration in the Institution, building upon progress made in the development of new systems for the integration of payroll and personnel systems, for similar advancements in procurement and accounts payable, for the establishment of decentralized service units to facilitate customer services, and for general strengthening of internal controls. Continued efforts will be made in the development of a payroll/personnel system which will integrate data from several areas of administration to improve financial, personnel, equal

opportunity and affirmative action, and procurement operations. Computer systems used presently to project civil service personnel costs, to develop trust fund budgets, and to formulate five-year planning data will be extended to include the monitoring and projection of trust fund personnel costs. Word processing equipment will assist in the entire budget process and in various budgetary presentations. Investment management, oversight of the auxiliary activities, risk management, and grant and contract administration will all receive high priority attention. The internal audit programs will continue with the objective of achieving a five-year audit cycle.

Major personnel management objectives are guided largely by the requirements of the Civil Service Reform Act of 1978 for civil service employees, by comparable policies and procedures being developed for trust employees, and by equal opportunity and affirmative action programs applicable to all employees. Substantial progress has been made in developing performance appraisal and merit pay systems, in completing a personnel system and procedures for the Smithsonian Tropical Research Institute consistent with treaty implementing legislation, in preparing and distributing instructional materials on civil service and trust employees, in developing a directive on the Federal Equal Opportunity Recruitment Program, and by initiating more aggressive training, development, and recruitment efforts for minorities and women in collaboration with bureaus and offices. Labor-management programs are continuing. Manager and supervisory training, including instruction in equal opportunity matters, has received high priority and will be continued. Programs of cooperative education with historically Black colleges and universities have been established and will be expanded. An augmented upward mobility program will offer more training opportunities to Smithsonian employees. Efforts are being made to improve employment opportunities for the handicapped and to facilitate accessibility to Smithsonian facilities and programs. These efforts will continue to be the major emphases of the next several years.

Plans for photographic services through FY 1986 call for a continuation of increased support for collections management, exhibitions, research, and publications. Routine processing services will be contracted whenever possible to save staff resources for assignment to special work. In support of collections management, photodocumentation of the collections will be stepped up to coincide with the inventory process, particularly in collections of high intrinsic value. Improvements to color printing capability are planned. Other basic objectives include expanding photographic assistance to researchers, including field photography; developing the negative catalogue and retrieval system; and eliminating hazardous nitrate negatives from photographic collections throughout the Institution.

Projections of needs for computer support over the next five years indicate a strong and growing demand for automatic data processing. All areas of institutional operation now receive such assistance but have stated the need for additional support for greater efficiency and effectiveness. Approximately 125 researchers now use mathematical and statistical programs, many of them taking advantage of interactive processing, for assistance in biological, geological, and zoological research. Growing amounts of collections based information are now in computer storage available to answer questions from staff, students, and visiting researchers; to process loans of objects; and

to meet inventory and security requirements. The next several years will show great expansion in this area as the demand for information from computer files grows. Administrative applications include those in accounting, payroll, procurement, personnel, equal opportunity, library services, materials inventory, maintenance scheduling and reporting, and building security. The auxiliary activities use automatic data processing extensively for inventory control, sales, subscriptions, registration, tour scheduling, and other essential information to help assure good public services. Major concentrations of effort during the planning period will be in the administrative areas with emphases on payroll, personnel, and equal opportunity data requirements and in the business management area. To the extent possible, a growing backlog of systems analysis and programming work will be met by using short-term employment and contractual services.

Important activities also will take place in the other specialized administrative and technical offices. A revised directives system will be developed and implemented by the Management Analysis Office, the Institution's inventory of forms will be completed and catalogued for easy reference, and more assistance will be given in the form of management studies required by bureaus and offices. The preparation of procurement documents, the transmission of procurement data to Accounting, and the reporting of many types of information required by law and regulation will be greatly enhanced by word processing equipment now installed. Continued improvements to the Institution's property inventory and control system will be made. Closer working relationships among the Smithsonian's procurement and contracting offices will be established and new guidelines will be issued for use by those offices having delegated authority for certain specialized types of procurement. Arrangements for airline and hotel reservations will be facilitated by the lease of a computer reservation system.

The facilities offices' resources, totaling \$30,630,000 and 923 positions in FY 1980, will grow to \$48,842,000 and 1,121 positions by FY 1986. Most of this growth is attributable to the rising cost of utilities and to the staffing and other needs of the Museum Support Center.

The design and construction staff, which provides professional architectural, engineering and related administrative services, will increase attention to the development of long-range maintenance, repair and improvement plans for all the Institution's facilities. The planning, estimating and budgeting function has assumed greater importance as increasing resources have been devoted to the Construction and Restoration and Renovation of Buildings accounts. The growth in workload reflects the Institution's priority on adequate maintenance of an aging physical plant, on upgrading fire protection systems, on building modifications to improve access for the disabled and to correct unsafe conditions and on energy conservation. The early assembly of detailed information and funding requirements, well in advance of the annual budget preparation, will continue to be a priority in order both to assure that funded projects can begin within the fiscal year for which funds are appropriated and to plan realistically for the future. Increased reliance on contractual architectural/engineering services and on automated equipment to assist in the administrative function will hold down the need for permanent employees; some additional planners, architects and engineers, however, will be required over the next several years.

Meeting the Institution's utilities costs for current buildings and programs continues to represent the primary additional resource requirement of the plant services function during the planning period. Utilities costs will amount to about \$11,000,000 in FY 1981 and are expected to be around \$20,000,000 by FY 1986 (including the Museum Support Center), an increase largely attributable to rate increases. However, the proper maintenance and operation of utilities distribution equipment and the installation of a computerized power management system have minimized the effect of these rate increases. Institution's formalized Energy Management Program has improved the monitoring and control of utility consumption, and an employee awareness program is being expanded. Modifications to exhibit and office lighting systems have reduced the consumption of electricity. Changes to these systems, for example, include the use of more efficient lamps; the addition of conveniently located switches; and reductions in lighting levels and periods of operation. During the period FY 1978-FY 1980, the Institution has avoided an estimated \$1,500,000 in utilities costs as a result of these energy conservation measures. A master plan for energy conservation is being developed to establish additional energy reduction goals and methods for accomplishment. In addition, substantial resources will be provided from the Restoration and Renovation of Buildings Account to renovate heating, ventilating and air conditioning systems in order to achieve even greater energy savings. Over the past several years, the installation of the equipment monitoring system permitted the redirection of about 25 staff-years of effort in support of preventive maintenance and other operations. This redirection of staff resources has both improved services and held down the need for additional positions for operations in such areas as materials management, work control and general maintenance.

Significant additional staff and related financial resources for the plant services function will be required only for the Museum Support Center, beginning in FY 1982. About 51 new employees will be required to operate the building's heating, ventilating and air conditioning systems and to provide maintenance, repair and custodial services. This staff and operating equipment and supplies will cost about \$825,000 by FY 1986. In addition, full-year costs for utilities (telephone, postage, electricity, steam and gas) are expected to be about \$800,000 in FY 1983, and about \$1,100,000 by FY 1986 (assuming a 10 percent escalation rate per year).

During the planning period, the protection office will be working on several major projects in order to provide adequate security, safety and health programs for the Institution. Progress will continue toward converting from a leased security and fire protection system to an Institution-owned and controlled system. Efforts will be continued to identify and correct all areas within the Institution that contain asbestos in order to eliminate any safety hazard. Precautionary measures will be continued until this problem is eliminated. Funds from the Restoration and Renovation of Buildings Account will be applied both toward the installation of the proprietary security system and toward the removal or containment of asbestos. Steady progress has been made in meeting the staffing requirements of the Institution's security function. Last year it was reported that an additional 70 positions would be required to protect existing facilities. Position increases and the redirection of resources have reduced the requirement for additional guards to 55; incremental increases in positions and funds will continue to be requested during the planning period

to fulfill this need. In connection with the Museum Support Center, equipment will be purchased in FY 1981 and FY 1982 (see the Special Programs chapter and Table 13) to be installed while the building is under construction. Budget requests for operating resources will be initiated in the FY 1983 appropriation. Full-year estimates for around-the-clock security for the new building, its occupants and the collections that will be housed there currently are \$720,000 and about 42 full-time staff.

#### Administrative, Financial, and Other Support Services Resource Growth

Resources devoted to all areas of Administrative, Financial and Other Support Services may approach \$67,100,000 by FY 1986, rising from FY-1980 levels of about \$43,700,000. Much of the federal increase will be associated with operating costs of the Museum Support Center, utilities, and physical plant maintenance and protection. Lesser appropriated amounts are required for a variety of support and logistical services, principally in accounting, personnel, data processing, design and engineering, and photographic services. Trust fund support may increase from the FY 1980 level of approximately \$6,200,000 to about \$8,700,000 for the specialized, technical, and other functions associated with administering the activities of the Institution. Funding increases shown do not include amounts for inflationary cost increases or legislated pay raises provided to civil service employees. Trust projections, however, include anticipated increases in salaries and benefits.

SMITHSONIAN INSTITUTION
APPLICATION OF OPERATING FUNDS
FY 1980 AND PROJECTED THROUGH FY 1986

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	7	1980	FΥ	1981	FΥ	1982	FΥ	1983	FΥ	1984	F	1985	FΥ	1986
ADMIN, FIN'L & OTHER SUPPORT SVCS	FTEMPL	(000) \$	FTEMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FT EMPL	(000)	FTEMPL	(000)	FT EMPL	(000)
CENTRAL MANAGEMENT OFFICES											•			
FEDERAL SALARY & EXPENSES	4	1390	42	1578	4	1619	43	1661	44	1676	44	1676	45	1711
UNKESTRICIED GENERAL -PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	20	1250	20	1430	20	1568 0	20	1630	21	1733	21	1808	23	1888
UNRESTRICTED SPECIAL PURPUSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	00	0 46 101	00	75 38 0	00-0	0 45 60 0	00-0	0 28 0	00-0	23 0 0	00-0	0 23 0	00-0	18 23 0
-TOTAL	64	2787	64	3121	62	3292	64	3337	99	3450	99	3525	69	3640
SPECIALIZED ADMIN & TECH OFFICES														
FEDERAL SALARY & EXPENSES	216	6391	219	7257	224	8257	232	8683	234	8850	238	9038	240	9194
-PROGRAM & ADMINISTRATIVE -AUXILIARY ACTIVITY	134	3466	136	4039	136	4229	137	4458 193	138	4731	139	4987 213	139	5237 223
UNRESTRICTED SPECIAL PURPOSEBUREAU ACTIVITY	•	0	0	0	0	0	0	O	0	0	0	0	0	0
-ALL OTHER RESTRICTED		4 0	00	ო <b>o</b>	00	mо	00	m o	00	m 0	00	m o	00	m 0
FEDERAL GRANTS & CONTRACTS 	355	10290	36	11413	365	12673	374	13337	377	13787	382	14241	384	14657
FACILITIES OFFICES														
FEDERAL SALARY & EXPENSES	911	29734	925	33473	935	37092	1048	42165	1067	43849	1088	45255	1108	47488
	20	803	20	842	20	964	12	1044	0.0	1135	0	1251	61	1354
UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY	•	0	0	0	0	0	0	0	0	0	0	0	၀	0
-ALL DIHER RESTRICTED FEDERAL GRANTS & CONTRACTS	000	600	000	000	000	000	000	000	000	000	000	000	000	000
A	923	30630	937	34327	947	38056	1060	43209	1079	44984	1101	46506	1121	48842

SMITHSONIAN INSTITUTION APPLICATION OF OPERATING FUNDS FY 1980 AND PROJECIED IHROUGH FY 1986

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AND PROJECTED FHROUGH FY 1986	FY 1981 FY 1982 FY 1983 FY 1984 FY 1985 FY 1986	FT \$ FT \$ FT \$ FT \$ 600) EMPL (000) EMPL (000) EMPL (000)	1186 42308 1200 46968 1323 52509 1345 54375 1370 55969 1393 58393	168     6311     168     6761     169     7132     171     7599     173     8046     175       5     114     5     184     5     193     5     203     5     213     5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 1361 48861 1374 54021 1498 59883 1522 62221 1549 64272 1574 67139	9 0 -5000 0 -5200 0 -5300 0 -5400 0 -5500 0 -5600	
		(000)	42509	7132		59883		
1986	FY	FTEMPL				4		·
FY	1982		46968	6761	0 60 0	54021	-5200	
[HRO	FΥ	FTEMPL	1 200	168	00-0	1374	0	
JECTED	1981	(000)	42308	6311	0 33 0	48861	-5000	
4D PRC	FΥ	FTEMPL	1186	168	00	1361	0	
1980 AN	1980	(000)	37515	5519 359	183 101 30	43707	-4379	
FΥ	FΥ	FT EMPL	1168	167	00	1342	0	
		ADMIN, FIN'L & OTHER SUPPORT SVCS	ADMIN, FIN'L & OTHER SUPPORT SVCS-SUMMARY	UNRESTRICTED GENERAL -PROGRAM & ADMINISTRATIVE * -AUXILIARY ACTIVITY	UNRESTRICTED SPECIAL PURPOSE -BUREAU ACTIVITY -ALL OTHER RESTRICTED FEDERAL GRANTS & CONTRACTS	-TOTAL	*LESS SI OVERHEAD RECOVERY ~PROGRAM & ADMINISTRATIVE	

## FACILITIES PLANNING, CONSTRUCTION, RESTORATION AND RENOVATION

The Smithsonian's responsibility for its facilities and the activities they house requires a continuing program of repairs and maintenance (some of which is accomplished by staff with funds provided in operating budgets), renovations and restorations, and new construction. The objectives of this program are to provide appropriate, safe, and accessible facilities for research, education, and care of collections. Federal appropriations are the primary source of funds for this work, but, starting with the funding of the original Smithsonian Institution Building, other sources of funds have at various times become available for particular projects.

Beginning in the mid-1970's, the Smithsonian established improvement of its facilities and their operation as one of its highest priorities. This decision to emphasize building repairs and improvements through the budget process reflected the Institution's great concern for the condition of its buildings, many of which date back to the turn of the century, as well as the realization that many more millions of dollars were needed each year than had been expended in the past.

In the last five years, considerable progress has been made in determining the extent to which additional facility support is required. A number of critical projects have been completed and a number of other major projects have been started on a phased basis. These projects are neither glamorous nor unusual, but include periodic work such as roof replacements, terrace waterproofing, replacing worn out heating and air conditioning equipment, fire detection and suppression improvements, etc. These and other repair and improvement requirements are currently estimated to cost about \$52,800,000 from FY 1982 through FY 1986, or about \$10,000,000 to \$12,000,000 annually.

In addition to safety and proper operation of existing buildings, the Smithsonian has in recent years required development of major new facility resources for collections management and replacement and upgrading of deteriorated and inadequate facilities mostly at research field stations at Edgewater, Maryland; Mt. Hopkins, Arizona; in Panama; and also at the Zoological Park in Rock Creek and at the Zoological Conservation Center at Front Royal, Virginia.

Redevelopment of the Zoological Park began slowly around 1970 and steadily accelerated to a point where now only one major exhibition project and several improvement projects remain. About \$43,000,000 of work has been accomplished and about \$25,000,000 of work remains. Modernization of the Zoo is one of Washington's proudest achievements.

A milestone achievement has been Congressional authorization and appropriation for construction of a Museum Support Center at Suitland, Maryland.

This major collection storage, conservation and research center located on a one-hundred-acre tract in Prince George's County will be the focus for collection management and conservation training for many future generations of Americans.

The Smithsonian's five-year construction, repair and improvements program which follows is highlighted by an exciting proposal to develop on the Mall new buildings for Eastern and African art. In addition, major construction programs are outlined for the Radiation Biology Laboratory, the Astrophysical Observatory at Mt. Hopkins, and the Chesapeake Bay Center.

Construction, Renovation and Restoration Summary
FY 1982-1986

(\$000s) (Appropriated and Nonappropriated)

Quadrangle Zoo (Rock Creek & Front Royal) Restoration & Renovation Other Construction	\$ 47,063 35,050 52,800 25,020
	\$159 933

#### Construction

#### Museum Support Center

P.L. 95-569, approved by the President on November 2, 1978, provides the Regents of the Smithsonian Institution with authority to construct museum support facilities. Amounts of \$325,000 in FY 1978 and \$575,000 in FY 1979 were appropriated for planning and design. Construction funds in the amount of \$20,600,000 are included in the Institution's FY 1980 appropriation, and an additional \$5,000,000 is included in the FY 1981 appropriation for this purpose, as well as \$2,500,000 of Institution nonappropriated trust funds. Total funds available for the project are \$29,500,000. The design and construction of the building are being supervised by the General Services Administration.

The Museum Support Center will provide approximately 251,000 square feet of usable space. The collections component will be a one-story building with an approximate ceiling height of twenty-five feet and 146,000 square feet of space for storage and management of collections, mostly for the Museum of Natural History. The Center will also provide about 105,000 usable square feet of space for research and study of the collections to be housed there. Some laboratory, office, and storage space will be used by the Smithsonian Oceanographic Sorting Center to place it in a more appropriate location adjacent to related program elements of the Museum of Natural History. Also, the Conservation component of the Center will include a collections receiving and fumigation unit, a conservation information referral center, space for the treatment of objects and research on conservation techniques, and a major

facility for training staff and visiting interns in theoretical and practical conservation skills. In addition, building facilities for shipping and receiving, packing and crating, registration, library, photography and distribution will be incorporated into the Center. Coordination of these activities will provide the Institution with a well-planned facility that will assure greater safety for objects in movement and storage.

Currently, it is expected that a construction contract will be awarded by the General Services Administration soon after January 1, 1981. It is also anticipated that construction work can begin shortly thereafter and be completed in approximately two years.

Details on Museum Support Center operating budget requirements, equipment costs, etc., including the establishment of a conservation training program, are included in the Special Programs, Museum Programs, and Administration sections of this plan.

#### Quadrangle Development

Legislation, P.L. 96-36, that authorized planning for development of the Quadrangle was enacted and signed by the President on July 20, 1979. Development of the Quadrangle, an area of approximately 4.2 acres bounded by the Smithsonian Building, the Arts & Industries Building, the Freer Gallery of Art, and Independence Avenue, is chiefly to enhance Eastern and African art for scholarly and public benefit. Estimated to cost about \$49,110,000, the Quadrangle project represents a special partnership between government and private sponsors. Construction legislation will be introduced in the 97th Congress.

The Freer Gallery of Art possesses one of the world's great collections of the art of China, Japan, and other cultures of the Middle East and South and East Asia. Part of the Smithsonian since 1906, the Freer Gallery will become the nucleus of a larger center for Eastern art. The new center will ensure regular displays drawn from rich holdings of Eastern art in private and public collections in the United States, and will also enable the Smithsonian to serve as host for special exhibitions sponsored by the governments of Eastern nations. In keeping with the tradition of scholarly excellence at the Freer, another principal activity of the new center will be research related to the cultures and artifacts encompassed by its collections. The Quadrangle project will provide greatly expanded facilities for individual research, and the center will offer a wide range of educational services to the public. Since its creation in 1951, the Freer Gallery's conservation laboratory has been one of the outstanding centers in the world for technical research related to the materials and methods of ancient craftsmen. In addition, specialists in the Freer's art studio are engaged in the practical aspects of cleaning, repairing, restoring, and remounting painted scrolls and screens. Unique for almost half a century in the West, this studio at the Freer is matched even now by only two other institutions outside of Asia. With the considerable amount of sensitive and specialized equipment already in place, and with the additional space and improved work areas to be provided by the Quadrangle project, the art studio and the conservation laboratory will be able to attend to new collections, as well as accommodate the growing number of qualified conservators who come to the Freer seeking advanced training and experience.

Recognizing the compelling need for a national museum devoted exclusively to the art and culture of Africa, the Congress of the United States in 1978 provided the means for the Smithsonian Institution to receive permanent custody of the Museum of African Art. Established some fifteen years ago, this young museum has achieved international stature and is currently housed in a group of quaint, but inadequate, converted private residences on Capitol Hill. The legislative history of P.L. 95-414 suggested that new, more suitable quarters be created. The Smithsonian proposes to accomplish this in the Quadrangle, in proximity to the Institution's other major museums.

The Museum of African Art's collection of sculpture, utilitarian objects, musical instruments, textiles, and jewelry is regarded as one of the most important in the United States. It is expected that gifts and bequests of artifacts of quality and significance will be a direct result of acquiring a new building on the Mall. Whereas the Museum has, in the past, concentrated its collecting and programs on the peoples of central and western Africa, it will be possible in the Quadrangle to increase the number of exhibitions dealing with other areas of the great continent, notably northern and eastern Africa, including Egypt. The Museum's education program is extensive and vigorous, including activities led by African and American staff members for elementary and secondary school children, continuing education groups, and undergraduate and graduate courses in cooperation with Washington-area universities. The Museum's staff also conducts research concerning the provenance, function and authenticity of the objects in the collection.

The Museum of African Art must, in fact, move from its present quarters in order to protect its collections more securely and make them more accessible to both the public and visiting scholars, to expand its exhibition area, and to provide safe and adequate space for staff and persons attending educational programs.

To enhance the Quadrangle setting, the Smithsonian design proposal creates two above-ground pavilions in the area south of the Castle. Delicate in proportion and sensitive in style, these pavilions will provide appropriate interpretive architecture for the expanded programs of Eastern and African art. Another building element, located entirely beneath the Quadrangle, would provide parking for approximately 350 cars, to be available for staff and public; space for a rare book library; quarters for the National and Resident Associate Programs; a central educational facility creating a lively center of participatory activity; exhibition space for the Smithsonian Traveling Exhibition Service; and additional quarters for the two museums. The entire above-ground area would then be landscaped attractively to create, within the Quadrangle, a quiet enclave for the public.

In fiscal year 1979, about \$165,000 of nonappropriated trust funds were used to develop preliminary design concepts, a program of space requirements, and various engineering and construction data on existing conditions of the subsurface and adjacent foundations. In fiscal year 1980, the Board of Regents provided another \$547,000 of nonappropriated trust funds for continued program and design planning. The firm of Shepley, Bulfinch, Richardson, and Abbott was selected in February 1980 to continue detailed planning, assisted by Mr. Junzo Yoshimura, the original architect, as design consultant.

The A/E firm presented a model of a refined concept to the Commission of Fine Arts on April 8, 1980, and received concept approval. Concurrently, the firm of E. Verner Johnson & Associates was recalled to revise and update a detailed program of requirements and the firm of EDAW, Inc. was selected to prepare and circulate for public review an Environmental Impact Statement. At present, the General Services Administration is negotiating a phased contract with Shepley, Bulfinch for the complete design project. This project, valued at approximately \$2,000,000, would provide working drawings and appropriate contract documents by December 1981. Conceptual design plans were presented for approval to the National Capitol Planning Commission on January 8, 1981, and were approved. The Environmental Impact Statement process is complete, and the project has been presented to the Joint Committee of Landmarks for the District of Columbia.

Quadrangle funding requirements (\$49,110,000) for design and construction are proposed to be shared equally between federal appropriations and nonappropriated trust fund sources. By FY 1980, approximately \$3,255,000 of trust funds had been reserved for this project (including a \$1,000,000 contribution from the Government of Japan) from which about \$800,000 has been obligated for planning and design. It is anticipated that an additional \$1,000,000 of trust funds will be used in FY 1981 to continue design work. The Institution expects to request from Congress about \$24,135,000 in FY 1982 for construction, and that about \$22,928,000 also will be available from trust funds and contributions at this same time.

It is tentatively estimated that the proposed Quadrangle facilities will necessitate the following program and operating increases over and above support available prior to construction. These projections are not included elsewhere in this Prospectus as they are very preliminary estimates only.

The Freer Gallery/Eastern Art, the Museum of African Art, and the Rare Book Library expect to need additionally about \$2,100,000, including around 20 new positions, for support of programs increased by the Quadrangle project buildings. Most of these new resources will be concentrated in exhibition, education, and conservation efforts. No increase in staff and related costs for the Associate and Education Center and the Smithsonian Institution Traveling Exhibition Service is expected to result from occupancy of new facilities, and the parking garage is planned to be self-supporting.

Building operations may amount to about \$3,400,000 for services, maintenance, repairs, protection, and utilities, including approximately 80 new positions to support 24-hour, seven-day-a-week activities.

This preliminary estimate of \$5,500,000 for program and building requirements does not include one-time expenses associated with initial occupancy and opening of these buildings to the public. These items including moving costs, operating equipment, exhibit furnishings and initial installations, supplies and materials, and other needs are to be developed later in the planning process.

### Zoological Park and Front Royal Conservation Center

The original 1973 Zoo Master Plan included forty-one projects at Rock Creek costing an estimated \$118,000,000. Since then, the program has been scaled down to thirty projects and approximately \$68,000,000 at the Zoo in Rock Creek and approximately \$12,000,000 of work at the Conservation Center. This savings is due largely to the acquisition of the Front Royal site in 1975, which permitted a reevaluation of the Rock Creek development plan, eliminating many of the costly and space-consuming projects necessary for breeding and research. The revised plan recognized that many animals could be provided for at Front Royal at far less expense than at the Rock Creek Zoo. Master Plan projects that can more effectively be conducted at Front Royal will continue to be sited there. These include nearly all major hoof-stock breeding requirements, back-up housing for small primates and numbers of other small mammals, bird incubation and breeder functions, as well as holding facilities for long-term breeding programs.

Central Area Redevelopment. Construction of the new Ape House is complete and it is expected to open to the public next spring. Renovation of the Reptile House, including a new nocturnal exhibit in the basement and an outside crocodile exhibit, is scheduled to be finished in February 1981. Renovation of the Small Mammal House is planned to be complete by July 1981 (these projects total about \$4,300,000, appropriated in FY 1980). Construction of Monkey Island (FY 1981 appropriation of \$1,840,000) is to start in early spring 1981, and will require about one year for completion. Except for minor projects, redevelopment of the central exhibit area is complete

Aquatic Habitats. This exhibit includes six projects combined in location for purposes of common water-systems support. The FY 1980 request (\$500,000) will complete final plans and specifications. Construction of the Aquatic Habitats Cluster is estimated to cost about \$9,300,000 and will include major exhibits for the manatee, platypus, sea otters, coral reef, tidal basin, and related environments. The cluster will be located at the south end of the Park along Rock Creek, and will be an extension to the series of aquatic exhibits now being completed for beavers, river otters, seals, sea lions, and polar bears. This will be a unique education and exhibit facility. Plans and specifications are to be completed in FY 1981 and construction funds will be requested in FY 1982 (\$6,000,000) and FY 1983 (\$3,300,000).

General Services and Parking Facility. Additional savings are anticipated by reducing the scope of the second-phase construction of the General Services and Parking Facility; \$680,000 is being sought for design and cost estimate purposes in FY 1985. The present estimate for construction of this facility is approximately \$8,500,000 (1979 dollars). This estimate will be refined through the design process, and construction funds will be sought in FY 1986. The Institution plans to offset some construction expenses by using parking revenues being held in trust to help meet this need and which currently amount to approximately \$900,000. By FY 1986, it is expected that about \$2,000,000 will be available for this purpose.

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NATIONAL ZOOLOGICAL PARK REDEVELOPMENT
AND
FRONT ROYAL CONSERVATION CENTER IMPROVEMENTS 1/
FY 1980-1986

# FOOTNOTES:

- 1/ Over one-half of the approved Master Plan for redevelopment of the National Zoological Park has been completed, as \$44,340,000 will have been appropriated for these purposes, and approximately \$25,000,000 of work is scheduled for well as some improvements to the Conservation Center at Front Royal, Virginia. Through fiscal year 1981 about the period FY 1982-1986.
- Construction of the parking garage is planned for FY 1986 and is estimated to cost about \$8,500,000(1979 dollars). Rock Creek parking revenue, currently totaling approximately \$900,000, is expected to contribute about \$2,000,000 towards construction cost of this project.
- 3/ In subsequent years, repairs and maintenance are anticipated to require \$650,000 at Rock Creek and \$450,000 at the Conservation Center annually.

Rock Creek Repairs and Renovations. In addition to the Master Plan, the Zoological Park is responsible for a continuing program of major maintenance and repair for its sixty separate facilities and extensive network of paths, roadways and landscaped areas. About \$500,000 to \$650,000 is required annually for structural, mechanical, electrical, and plumbing repairs and renovations, as well as animal support and housing requirements, and grounds, roadways, and major utility repairs and improvements.

Conservation Center Repairs and Improvements. Since acquiring the Front Royal site in 1975, the Zoo has been engaged in a program designed to occupy and hold the land including some emergency repairs. The Institution has retained serviceable structures for use where there is clear need, and is demolishing deteriorated and unusable structures. Most of the animal containment fencing is in place for major paddocks and for the overall site, and most of the initial repairs to essential utilities and buildings have been completed. In FY 1979, the Institution obligated about \$100,000 of nonappropriated trust funds to purchase additional land encircled by the original tract. In FY 1980, about \$120,000 was committed to development of a formal and detailed plan for rehabilitation and improvements much like the original Rock Creek master plan. This document is expected to be available for review next summer. Also, in FY 1980, new city sanitary and water hookups were completed, and new hoofed stock facilities design was initiated.

Total repair and improvement costs spanning FY 1975-1986 for the Conservation Center are estimated to be approximately \$12,000,000. In FY 1981, \$1,000,000 is expected to permit the Conservation Center to advance in coordination with Rock Creek construction. Projects include facilities for hoofed stock, renovation of the maintenance and staff services buildings, and road maintenance and improvement. Follow-on projects are expected to amount to about \$7,000,000 through FY 1986.

### Restoration, Renovation and Other Construction

The Restoration and Renovation of Buildings account is used to fund building repairs, alterations and improvements, as well as the construction of additions to existing facilities and minor new facilities. Substantial annual funding is required in order to assure the maintenance and preservation of the Institution's buildings, to provide a safe environment for visitors, staff and collections, and to meet program objectives.

The Institution's buildings and other facilities (other than the Zoo) consist of twelve museum and gallery buildings in Washington, D.C. and New York City housing research and collections management activities and a wide range of exhibitions in the fields of science, history, technology, and art. Also included are the Radiation Biology Laboratory in Rockville, Maryland; the preservation, storage, and air and spacecraft display facility at Suitland, Maryland (also the site of the soon to be constructed Museum Support Center); a conference center near Elkridge, Maryland; centers for biological research, conservation, and education in Panama and on the Chesapeake Bay, near Annapolis, Maryland; an oceanographic research station at Fort Pierce, Florida; a center for astrophysics in Cambridge, Massachusetts, and an observatory on Mt. Hopkins, near Tucson, Arizona; and

Restoration, Renovation and Other Construction

(\$000\$)

Totals FY 1982-1986	5,485 18,780 4,635	6,985	12,435	52,800	3,500 3,200 10,700 7,620	17,400	70,200 7,620
1986	1,555 3,450 1,030	1,625	2,340	10,800	10,000	10,000 3,500	20,800 3,500
1985	1,300 4,145 1,150	1,325	2,980	11,600	2,920 400 3,500	3,320 3,500	14,920 3,500
1984	965 3,800 785	1,615	2,355	10,700	3,200 280 200 560	3,680	14,380 560
1983	910 4,440 950	1,240	2,410 $1,250$	11,200	300	400	11,600
1982	755 2,945 720	1,180	2,350	8,500		, ,	8,500
1981	255 3,285 1,035	692	1,337	7,539 $\frac{1}{2}$		1 1	8,039
Fiscal Years	Restoration & Renovation General Repairs & Improvements Facade, Roof and Terrace Repairs Fire Detection & Suppression Access for Disabled, Safety and	Hazardous Conditions Htility System Renairs &	Improvements Other Projects	Subtotal Federal	Other Construction Astrophysical Observatory $\frac{2}{2}$ Chesapeake Bay Center $\frac{2}{2}$ Radiation Biology Laboratory $\frac{3}{2}$ Miller House $\frac{4}{4}$	Subtotals - Federal Trust	Grand Totals - Federal Trust

# FOOTNOTES: Restoration, Renovation, and Other Construction

- 1/ The original FY 1981 request of \$8,839,000 was reduced by \$800,000 as a result of the President's budget amendment and further reduced by \$500,000 as a result of Congressional action.
- Design funding It is anticipated that authorization will be sought and funding will be requested as a construction line item; \$3,500,000 for SAO for more accessible base camp support and other facility needs in FY 1984, and \$3,200,000 for the Bay Center for staff and laboratory space in FY 1985. for each will be required earlier (\$300,000 in FY 1983 and \$280,000 in FY 1984). 7/2
- facilities at Rockville, Maryland, through 1985, and anticipates exercising a second option which The Institution has exercised an option to extend the lease of the Radiation Biology Laboratory's would extend this lease through 1980. Past experience indicates that technically sophisticated Laboratory space is acquired for lease only at significant expense, and usually with less than satisfactory results. 3/
- 4/ It is anticipated at this time that the Miller House will be renovated and partially restored using primarily nonappropriated trust funds.

a number of administrative, storage, reference, distribution, and other supportive facilities primarily in leased space.

The Institution's FY 1981 appropriation of \$7,539,000 is an increase of \$2,289,000 over the FY 1980 R&R appropriation; this increase reflects the Institution's commitment to acquiring a level of funding consistent with the size, diversity and age of Smithsonian facilities and known work requirements. The following major projects are planned for FY 1981: continuation of roof repairs at the Arts and Industries Building (\$1,000,000); continuation of facade repairs at the Renwick Gallery (\$1,000,000); initiation of repairs to the facade and terrace of the Air and Space Museum (\$470,000); continuation of terrace repairs and waterproofing at the Museum of American History (\$320,000); completion of the roof replacement at the American Art and Portrait Galleries Building (\$350,000); the first major phase of renovating the heating, ventilating and air conditioning system at the Freer Gallery (\$300,000); continued implementation of the fire protection master plans for the Natural History Building (\$400,000) and the Museum of American History (\$265,000); installation of a new water supply and distribution system at the Chesapeake Bay Center (\$250,000); completion of modifications to the Hirshhorn Sculpture Garden to provide access for the disabled (\$100,000); and the first major phase of removing and/or containing exposed asbestos insulation located in several Smithsonian buildings (\$250,000).

General Repairs and Improvements. Funds requested in this category support projects that do not lend themselves to discrete categorization, as well as minor emergency repairs, such as equipment failures or structural defects that cannot be anticipated and that arise from heavy use, extreme weather conditions, or other circumstances. Examples of projects in this category are interior repairs to floors, ceilings, partitions, doors and building hardware; space renovations which would create additional or more effective space for program activities; renovations of exhibition and other public space; repairs to roads and walkways; elevator and escalator repairs; and lighting improvements. A total requirement of approximately \$5,500,000 is anticipated for this planning period.

Facade, Roof and Terrace Repairs. Maintaining the integrity of the exteriors of all Smithsonian buildings is critical to preventing major structural damage and deterioration due to age and weathering, and to ensuring a safe environment for visitors, staff, and collections. Energy conservation also demands water- and weathertight exteriors. Work in this category includes a variety of major projects, such as roof replacements, repointing and recaulking facades, exterior painting, and window repairs. Requirements that fall under this category of repairs have become apparent in some of the Institution's newest buildings as well, and must be corrected. In addition to major projects, a scheduled program of maintenance and upgrading to protect building exteriors must be performed annually.

Planning and design for remaining exterior work at the Arts and Industries Building continued in FY 1980. Major requirements include completion of the roof replacement, repointing the masonry facade, extensive window repairs, and replacement of gutters and downspouts. During FY 1981, construction

will focus on roof replacement, and \$1,000,000 is included in the FY 1981 budget request for this purpose. An amount of \$1,000,000 also is included in the FY 1982 request, and substantial resources will be required to sustain progress on this project throughout the planning period.

During FY 1980, detailed measured drawings and specifications for the replacement of the Renwick Gallery facade were completed. The first major construction phase will begin in FY 1981 with funds appropriated in FY 1980 (\$600,000) and in FY 1981 (\$1,000,000). At this time, cost estimates comparing precast concrete and natural stone are being updated for final evaluation before construction starts. It is estimated that a minimum of \$3,800,000 will be required between FY 1982 and FY 1986. Additional funds may be required beyond this planning period to complete the project.

The facade and terrace of the Air and Space Museum require a variety of repairs and improvements in order to eliminate water leaks and intrusions that have developed since the building was completed in 1975; the terrace also should be resurfaced with a more durable material. An amount of \$470,000 is included in the FY 1981 appropriation to begin construction, and additional funding of about \$1,600,000 is expected to be requested in future year budgets to continue this project.

Additional projects scheduled during this planning period include completion of the Museum of American History terrace repair; caulking and pointing the facades of the American Art/Portrait Gallery, Museum of American History and Natural History buildings; resurfacing the plaza of the Hirshhorn Museum; repairing windows at the Natural History building and Renwick Gallery; and double-glazing windows at several museums to improve energy efficiency. A total requirement of approximately \$18,780,000 is anticipated for this planning period.

Fire Detection and Suppression Systems. The Institution is continuing to develop and implement plans for upgrading fire protection systems in all buildings in order to provide a level of safety consistent with today's standards and technology. Work in this category includes such items as the installation of heat and smoke detection systems, sprinkler and chemical suppression systems, and fire doors and walls. Improved systems are installed as exhibitions are changed, and fire retardant materials are used wherever possible.

Comprehensive fire protection master plans have been completed for both the Museum of Natural History and the Museum of American History. These plans outline programs for the installation of upgraded sprinkler systems, new detection systems, fire pumps, generators and control panels, and architectural modifications to create more efficient fire zones. Steady progress has been made in implementing the plan for the Natural History building. The installation of a sprinkler system in the building's west wing should be completed during FY 1981, along with a new control and alarm system. The installation of a sprinkler system in the building's east wing will begin in FY 1981, in addition to other improvements. The master plan for the Museum of American History building was completed during FY 1980, and the first major construction phase will start in FY 1981. A total requirement of approximately

\$4,635,000 is anticipated for this planning period, of which about \$3,500,000 will be required for the Museums of Natural History and American History. Other major fire protection projects planned for the next five years include the installation of additional smoke detectors in the Smithsonian Institution Building, the installation of sprinkler systems at the Chesapeake Bay Center and the Freer Gallery, the design and implementation of a fire protection system for Barro Colorado Island in Panama, and upgrading of smoke detectors and sprinklers in the Arts and Industries building.

Utility Systems Repairs and Improvements. Upgrading the heating, ventilating and air conditioning (HVAC) equipment and controls in Smithsonian facilities will contribute, more than any other factor, to the reduction of energy consumption. The HVAC systems in most buildings were designed with neither the goals of current energy standards nor the advantages of technologies that are now available. Major improvements are required, as well as minor maintenance and repairs to achieve energy efficiency, to ensure reliability of existing systems, and to maintain environmental conditions necessary for the protection of the collection. Equipment requiring upgrading or replacement includes such items as air handlers, chillers, pumps, coils, fans, compressors, cooling towers, electronic controls and exhaust and filtration systems. This category of work also includes associated electrical and plumbing repairs and improvements.

In FY 1981, the first construction phase of the Freer Gallery HVAC system renovation will begin, and comprehensive studies and designs will be initiated to prepare for similar renovation projects at the Museum of American History, the Museum of Natural History, and the American Art/Portrait Gallery Building. Major renovations of deteriorated electrical wiring at the Freer Gallery and the Smithsonian buildings also are planned. At this time, it is anticipated that these and other utility systems repairs and improvements will cost approximately \$12,435,000 between FY 1982 and FY 1986.

Access for the Disabled, Safety and Security, and Correction of Hazardous Conditions. Most Smithsonian facilities require additional modifications to meet recently updated standards for disabled person access. Projects currently underway include the Hirshhorn Sculpture Garden renovation scheduled for completion in FY 1981, restroom modifications at both the Renwick Gallery and the American Art/Portrait Gallery building, and the installation of an elevator at the Portrait Gallery. A conceptual plan for improving entrance access at the Freer Gallery was completed in FY 1980, and a similar study for the original Smithsonian building has been completed. Additional projects to improve access for the disabled will be accomplished during the planning period.

The elimination of exposed asbestos insulation located in several buildings continues to be a Smithsonian high priority. An amount of \$250,000 is included in the FY 1981 budget to accelerate work already begun by the Institution's maintenance staff, and approximately \$1,400,000 will be applied toward the correction of this problem between FY 1982 and FY 1986.

Work related to the new proprietary security system, which is now in the planning and design phase, will be a major element in this category; projects will require some demolition and rewiring and the installation of new electronic equipment and detection devices. Another major project now under design is an upgraded, energy efficient, exterior security lighting system for all buildings on the Mall. Construction related to both of these projects will proceed throughout the next five years at a cost of approximately \$2,700,000. A total requirement of \$7,000,000 is expected in this category during the planning period.

### Other Projects and Construction

### Astrophysical Observatory

The Smithsonian Astrophysical Observatory depends entirely upon rental space for its activities in Cambridge, Massachusetts. In FY 1980, these rentals totaled about \$850,000. An Observatory-owned facility at Cambridge could offset long-term escalating rental costs, and provide additional benefits of consolidation of locations and increased space. The feasibility of constructing a building in cooperation with Harvard University will be explored, but appears unlikely at this time.

Further development of facilities at the Mt. Hopkins Observatory is required to support expanded research activities associated with the installation of the Multiple Mirror Telescope. Construction of the dining/common building (\$305,000) is expected to be complete by April 1981, and the telescope/electronics annex building has been completed. Design and engineering to convert the single-lane unpaved access road into a safe, in-sloped, all-weather road is complete, and work will begin soon using about \$80,000 from FY 1980 and \$100,000 appropriated in FY 1981. Over the next five years, up to \$1,000,000 will be required for continued road improvements, including a \$500,000 FY 1982 request.

In addition, construction authorization will be sought to relocate administrative and support activities from Amado (about 18 miles from the summit) to the base of the mountain on Forest Service land. It is anticipated that about \$300,000 would be required in FY 1983 for design and \$3,200,000 in FY 1984 for construction. Requirements for these facilities include administrative space for about twenty persons, a library/conference center, luncheon facilities, and an electronics laboratory and documentation room; a vehicle maintenance center for automobiles and heavy equipment; a storage and shipping and receiving building; and a small visitor reception facility.

SAO construction, road improvements, and other facility requirements are estimated to cost about \$5,200,000 over this planning period.

### Chesapeake Bay Center for Environmental Studies

Present facilities at the Chesapeake Bay Center include a renovated dairy barn with a new laboratory wing addition, an education and dormitory building, several small farm buildings which provide for storage and vehicle and boat maintenance, and several trailers.

The dairy barn building was renovated between 1969 and 1971 with funds from the Old Dominion Foundation and it then provided the main administrative and laboratory space. In 1974, a request was made for foundation support and other private funds to construct an education building to be used to house students and provide for public programs, workshops and seminars. This facility was completed in 1975. Because of increases in the Center's staff after 1971, and a lack of additional space in the Old Dominion Building, all of the subsequent new staff were housed in trailers acquired as surplus. These proved to be generally inferior for research use.

Currently, the Bay Center has developed a phased facilities renovation and improvement plan which provides in modular fashion additional space for research, education, administration, and services as they are required. Phase I of this six-phase program was constructed in FY 1978 and FY 1979 with approximately \$548,000 of nonappropriated funding, and provides 5,000 square feet for chemical laboratory needs. Phase II construction, a maintenance and shop building, has been completed using \$150,000 of appropriated funds provided in FY 1979 and \$124,000 in FY 1980. Phase III construction, the final phase planned at this time, includes about 15,000 square feet of sophisticated laboratory space and other administrative facilities. The Smithsonian plans to seek construction authorization for this project, and appropriations in FY 1984 for design (\$280,000) and in FY 1985 for construction (\$2,920,000). At the Bay Center's Poplar Island field station, efforts have been made to provide for low-cost shoreline erosion control, but it now appears unlikely that large-scale efforts at controlling erosion will be economically feasible.

In FY 1981, \$250,000 is being used to upgrade the water supply and distribution systems at the Center. Approximately \$3,780,000 additional funding will be sought over the balance of this planning period.

### Radiation Biology Laboratory Relocation

By the year 1990, it will be necessary to acquire appropriate new quarters for the Radiation Biology Laboratory currently located in leased space at Rockville, Maryland. It has been the Institution's experience that technically adequate space needed by the Laboratory is acquired by lease only at significant expense and with less than satisfactory results.

Over the next several years, the Institution expects to complete a study of the Laboratory's space requirements, and to explore how these could be met by further development of existing Smithsonian property such as Front Royal, Virginia.

### Cooper-Hewitt Museum

The Cooper-Hewitt Museum comprises the Carnegie Mansion and the adjacent Miller House, donated to the Institution in 1972. At present, only the Mansion is fully functioning. Using private donations and unrestricted trust funds, it was restored and adapted to museum purposes over a four-year period, opening to the public in October 1976.

No work, other than security and fire detection installations and basic maintenance, has been done on the Miller House to date. Although the building is in run-down condition, out of necessity the upper three floors are now used for storage of some collections and the lower two floors for offices. In its present condition, the House is unsuitable for further museum activities, and as Cooper-Hewitt's program develops, it will be essential to renovate the building to acquire needed temporary exhibition galleries, expanded library, education and office space, as well as appropriate collections storage space. The Institution will seek donations and other means of support for this purpose over the next several years.

### Tropical Research Institute

Continuing development in the coming year for the Panama Canal Treaty implementation and a land management and facilities plan for the Barro Colorado Nature Monument will affect the Tropical Research Institute's future renovations and improvements program. In addition, the Institute may find it desirable over this time to plan for more consolidated research and support facilities than exist at present.

The Institute's research facilities on Barro Colorado Island, as well as those at Naos Island, Galeta Point and other locations, continue to offer unique research opportunities to scientists and students throughout the world. These facilities provide minimum comfort and laboratory space, and are under constant attack by the environment. Maintenance, repairs, and improvements are difficult and costly because of logistical problems associated with these remote tropical locations. Preservation of these facilities requires constant support to protect and improve them for the future.

Presently, installation of a new wet laboratory and saltwater distribution system at Naos Island is complete and in use for marine research. In addition, renovation and consolidation of other research facilities at Naos have been planned and designed, and work is scheduled throughout the planning period. At Barro Colorado Island, upgrading of sanitary and water facilities and renovation of almost all structures are necessary. This work will be phased over the next five years, and is estimated to cost about \$925,000. About \$328,000 (some of which was reprogrammed from various STRI projects in FY 1979 and \$195,000 which was provided in FY 1980) will be used to construct a new library facility at the Tivoli site in Panama City. Additional consolidation of laboratory and administrative space at this location is planned, but no detailed plans or estimates are available at this time.

Major repairs and maintenance of the Tropical Research Institute's research and support facilities will require increased attention and funding in the years ahead. The Smithsonian plans to request about \$500,000 to \$700,000 annually for this purpose, and estimates that about \$3,000,000 will be needed over this planning period.

### Future Development

### American Art/Portrait Gallery Building

The Portrait Gallery, the Museum of American Art, and the Archives of American Art continue to seek improvement and greater utilization of all space available in the old Patent Office Building. These efforts are a continuation of the original restoration and extend to the basement and garage areas of the building. Presently, conversion of the parking garage for museum purposes has undergone only preliminary planning, but is considered necessary in addition to planning for future acquisition of the Trade Commission Building.

### Trade (Tariff) Commission Building

The necessity for additional space to support the collections and other programs of the American Arts and Portrait Gallery Building could provide a unique opportunity for further development of a center of American art if the old Tariff Commission Building (across F Street from the American Arts/Portrait Gallery building) can be restored and transferred to the Institution. The prospects of this opportunity to preserve a historic and architecturally significant building and devote it to public purposes are very long range.

### Remaining Mall Site

P.L. 94-74, approved August 8, 1975, reserved the last remaining building site on the Mall, bounded by 3rd and 4th Streets, Independence Avenue and Jefferson Drive, for use by the Smithsonian for public purposes subject to Congressional approval. Presently, there are no long-range plans for this area. It is expected that the site will continue to be used for temporary exhibitions and other purposes by federal and other organizations.

### Leased Space

Over the years the growth of collections, research, and education activities of the Institution has steadily reduced the space originally available in museums and other Smithsonian buildings for program and administrative purposes. Consequently, the Institution has relied upon rental space to alleviate crowded and inefficient space situations.

In the past, the Institution has consolidated its leased locations for increased efficiency, and currently occupies approximately 210,000 square feet for administrative and support use at the Service Center on North Capitol Street and at L'Enfant Plaza. At this time, no significant increase of rental space is anticipated over the next five years. The plans outlined in the administrative and other sections of this prospectus could result in the need for additional off-Mall space. However, the practice of reviewing space needs in conjunction with the budget process will continue, and, when ever possible, highest space priorities will be met through adjustments of use and allocation of existing space. Additionally, the Institution will support the Woodrow Wilson Center's efforts to move from its overcrowded conditions in the Smithsonian Building to appropriate new quarters, and will be alert to opportunities to acquire government owned facilities to replace rental space.

The Institution's rental program for administrative and support space is funded by federal appropriations and nonappropriated trust funds. In FY 1982, these costs are expected to be approximately \$1,700,000. About \$560,000 of trust funds will be applied to this cost as a charge to the Institution's revenue-producing auxiliary activities occupying Mall and leased space. Due to annual cost-of-living increases to existing leases, along with the necessity to renegotiate the L'Enfant Plaza lease, an additional appropriated amount of \$260,000 will be sought in the FY 1982 budget request to Congress, as well as authority to enter into a new ten year lease at the Service Center on North Capitol Street in an effort to better control lease costs at this location. This amount will bring total federal lease costs to approximately \$1,160,000.

Table 13(1)

SHITHSONIAN INSTITUTION

MUSEUM SUPPORT CENTER EQUIPPING AND OPERATING RESOURCES FY 1981 - 86

					-		Î	0	1000	200	700L	70
MISEUM SUPPORT CENTER	FY I F/T EMPL.	1981 \$ (000)	FY 1982 F/T EMPL. ((	\$ (000)	FY 1983 F/T ENPL. (	983 <b>\$</b> (000)	F/T EMPL.	1964 <b>\$</b> (000)	F/T EMPL.	(000)	F/T EMPL.	(000)
EQUIPMENT .												
Collections Storage Equipment						-						
. Museum of History & Technology . Museum of Natural History <sup>1</sup>	1 1	2,051	1 1	458	1 1	650	1 1	1,985	1 1	1,200	t 1	1,300
Other Equipment												
	1 1 1	450	1 I I	250	1 1 1	30 10	1 1 1	50 8 7		1 1 1		1 1 1
. Museum of History & Technology . Museum of Natural History . Photographic Services . Protection Services	1 1 1	210	1 1 1 1	225 540 23 200	1 1 1 1	105 1,074 24	1 1 1 1	1,100	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
SUBTOTAL Equipment Required $^3$	,	\$2,711	1	\$4,495	1	\$4,400	1	\$3,200	-	\$1,200	-	\$1,300
l Figures include \$400,000 base appropriations for NMMH through FY 1985; \$200,000 thereafter.	priation	s for NMNH t	hróugh F	, 1985; \$200,	000 ther	eafter.						
<sup>2</sup> An additional \$750,000 will be allocated to CAL equipment needs from institutional	cated to	CAL equipme	nt needs	from instit		rust funds	(\$400,00	(\$400,000 in FY 84; \$350,000	\$350,000	in FY 85).		
\$240,000 in FY 1983-86 imply redirection of rental funds for the \$240,000 in FY 1984-86. They also contain approximately \$2,200 this purpose in the institutional MSC equipment request of \$4.	tion of contain MSC equi	tion of rental funds for contain approximately \$2,		the Sorting Center to equipment needs 200,000 for cost escalation for years \$4,495,000 in FY 1982.	er to en escalar 1982.	uipment nee ion for yea	ls in the rs FY 19	amount of 3.86; \$195,	170,000 00 is ir	in the amount of \$170,000 in FY 1983; FY 1983-86; \$195,000 is included for		
												114

SHITHSONIAN INSTITUTION

MUSEUM SUPPORT CENTER EQUIPPING AND OPERATING RESOURCES
FY 1981-86

Table 13(2)

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	986	(000)		1,000 117 33 650	826 1,070 720	\$4,416	\$5,716			115
_	FY 1986	F/T EMPL.		27 4 2 15	51 - 42 -	141	141			
	985	(000)		945 117 33 550	826 970 720	\$4,161	\$5,361			
	FY 1985	F/T EMPL.		27 4 2 13	51 - 42 -	139	139			
	1984	<b>\$</b>		843 117 33 400	826 880 720 750	\$4,569	\$7,769		•	
	Ŀζ	F/T EMPL.		24 4 2 10	51 - 42	133	133			
	FY 1983	(000)		769 78 23 200	826 800 610 1,062	\$4,368	\$8,768		 	
	FY	F/T ENPL.		23   3	51 42	126	126			
	FY 1982	(000)		193 - 23	1 1 1 1	\$216	\$4,711			
	FY	P/T EMPL.			1 1 1 1	12	12			
	1981	\$ (000)		89 - 23	1 1 1 1	\$112	\$2,823	f inflation		
	FY	F/T EMPL.		7	1 1 1 1	80	8	ecause		
		MUSEUM SUPPORT CENTER	OPERATIONS	. Conservation Analytical Laboratory . Horticulture . Libraries . Natural History Museum	. Plant Services - Utilities <sup>1</sup> . Protection Services . Moving Expenses	SUBTOTAL Operations	TOTAL - EQUIPMENT & OPERATIONS	l Escalates at about 10% per year because of inflation		
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September 1980

# SMITHSONIAN INSTITUTION

BOARDS AND COMMISSIONS	National Armed Forces Miscinn Advisory Board		Arts Cammitssium Blainnal Mitscum Art Advisory Cammil		Smithsonian Asimphysical Observatina			Women's Committee of the Smithsonian Associates	Director of	MEMBERSHIP AND DEVELOPMENT*	Develupment Office Smithsonian National Associate Program Smithsonian Resident Associate Program
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## PUBLIC SERVICE Assistant Secretary\*

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Suithornian Institution Press
Suithornian Magazine
Vision Information and Associates
Reception Center Edmanion Office of Santhsonian Symposia and Anacusta Nergibbarhood Mascum Division of Performing Arts International Exchange Service Office of Elementary and Secondary

# ADMINISTRATION Assistant Secretary\*

Office of Companer Services
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Office of Penja nod Consection
Office of Pensy nod Services
Office of Pensy nod Services
Management Analysis Office
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