INDEPENDENT OFFICES
APPROPRIATION BILL FOR 1937

HEARING
BEFORE THE
SUBCOMMITTEE OF HOUSE COMMITTEE
ON APPROPRIATIONS
IN CHARGE OF
INDEPENDENT OFFICES APPROPRIATION BILL FOR 1937

J.E.G.
FEB 24 1941
POSSIBILITY OF REAPPROPRIATING UNEXPENDED BALANCE

Mr. Woodrum. We could, by recomputing there, indicate a saving in the current year's appropriation which the committee could reappropriate and thereby reduce the estimate for 1937. What about the $999,705 in 1935?

Mr. Carr. As far as we know, that is in the Treasury and likely to stay there.

Mr. Woodrum. If we reappropriated both of those, that would be nearly $2,000,000.

Suppose you give some thought to that and let us know.

Mr. Carr. I will.

(The information requested is as follows:)

Since expenditures under this appropriation vary from time to time with the fluctuation of foreign exchange rates, it is impossible to predict definitely the amount of the 1936 appropriation which will not be expended during that year. However, at the present moment it seems probable, unless there are unforeseen changes in exchange rates, that there will be an unexpended balance in that appropriation of approximately $1,653,000.

Therefore, if this probable unexpended balance should be reappropriated and made available as a part of the funds expendable for exchange relief in 1937, the estimate submitted by the Department might be reduced from $3,848,611 to $2,793,611.

If, in addition to the unexpended balance of the 1936 appropriation, it is desired to reappropriate and make available the unexpended balance of the appropriation for 1934 and 1935, which for these 2 years was combined in one appropriation, the estimate of additional funds necessary for 1937 might be reduced further to $1,800,000.

The following wording of the appropriation is suggested:

"Payment to officers and employees of the United States in foreign countries due to appreciation in foreign currencies: For the purpose of carrying into effect the provisions of the act entitled ‘An Act to authorize annual appropriations to meet losses sustained by officers and employees of the United States in foreign countries due to appreciation in foreign currencies in their relation to the American dollar, and for other purposes,’ approved March 26, 1934, and for each and every purpose specified therein, $1,800,000, and in addition thereto there is hereby made available for the fiscal year 1937 any unexpended balances in the appropriations for this purpose for the fiscal years 1934 and 1935 (act of May 30, 1934) and the fiscal year 1936 (acts of Feb. 2, 1935, and Aug. 12, 1935)."

WEDNESDAY, DECEMBER 11, 1935.

SMITHSONIAN INSTITUTION

STATEMENTS OF DR. C. G. ABBOT, SECRETARY; DR. ALEXANDER WETMORE, ASSISTANT SECRETARY; H. W. DORSEY, ADMINISTRATIVE ASSISTANT TO THE SECRETARY; JOHN E. GRAF, ASSOCIATE DIRECTOR, NATIONAL MUSEUM; DR. FRANK H. H. ROBERTS, BUREAU OF AMERICAN ETHNOLOGY; DR. J. FRANKLIN JAMESON, AMERICAN HISTORICAL SOCIETY

GENERAL STATEMENT

Mr. Woodrum. We will proceed with the items for the Smithsonian Institution this morning. Dr. Abbot, do you wish to make a general statement relative to your estimates and the work of the Institution, before we take up the specific items?
Dr. Abbot. Mr. Chairman, the work of the Institution is going on, I think, very favorably. The investigations which have been carried on in the last year I think have been uncommonly fruitful.

We have with us Dr. Roberts, who has just recently returned from a very important archaeological work in northern Colorado, which we shall speak of a little later when we come to the Bureau of American Ethnology.

We have work going on in the observatories of the Institution in Chile, in Egypt, and in southern California, which seems to be very successful and promising.

I have recently made a study of the results of this observatory work which indicate, I think, a real relationship to weather and to important changes in levels of lakes and rivers. I hope that will go on without interruption.

In general, we have been successful, I think, in the work of the Institution in the past year. It is called to my attention, however, with the economies of recent time, that the situation bears particularly hard on all of the members of the force in the lower grades. There has been no increase in their compensation since 1930 and notwithstanding the situation of the law in that respect. Then, in regard to the watch force and the char force, I think you will recall, Mr. Chairman, that in former years we have repeatedly called attention to the fact that it is not possible to give the watch force the full amount of their leave and there has been recently some discontent among the watch and char force on account of the comparison of their situation with that of similar employees in other branches of the service. Dr. Wetmore will speak to that, I am sure. But, with this introduction, perhaps we had better go on with the items.

**SALARIES AND EXPENSES, SECRETARY'S OFFICE**

Mr. Woodrum. Your first item reads as follows:

For expenses of the general administrative office, Smithsonian Institution, compensation of necessary employees, traveling expenses, purchase of books and periodicals, supplies and equipment, and any other necessary expenses, $36,330.

Dr. Abbot. May I present the following justification:

This appropriation provides for the salaries of employees concerned with the central administration of the several Government bureaus under the direction of the Smithsonian Institution and includes a small sum for miscellaneous office supplies and other routine expenses connected with this work.

The increase for 1937 is explained as follows:

(1) Total increase. ......................................................... $4

The foregoing increase in appropriation was made to round out the appropriation to even figures.

Mr. Woodrum. The amount asked for 1937 is practically the same as it was for the present fiscal year.

Dr. Abbot. That is correct. We have Mr. Dorsey here, who perhaps has something to add to that general statement.

Mr. Dorsey. That represents just the administrative expenses of the central office, the Secretary's office. Those are all salaries with the exception of about $1,400 spent on miscellaneous expenses.

Mr. Woodrum. There are 16 positions?
Mr. Dorsey. Yes, sir; there are no changes in that. We hoped to get a little increase in the force, but it was not included in the Budget.

INTERNATIONAL EXCHANGES

Mr. Woodrum. The next item is for international exchanges, as follows:

International exchanges: For the system of international exchanges between the United States and foreign countries, under the direction of the Smithsonian Institution, including necessary employees, and purchase of necessary books and periodicals, and traveling expenses, $44,266.

Dr. Abbot. The following statement is presented for the record:

This appropriation provides for carrying on the exchange of governmental, scientific, and literary publications between the United States and foreign countries in accordance with the Convention of Brussels of March 15, 1886, to which the United States was a signatory, and under which the Smithsonian Institution acts as the agent for the United States Government. The publications received from foreign countries in exchange for United States Government publications are deposited in the Library of Congress.

The decrease for 1937 is explained as follows:

(1) Total decrease

The foregoing decrease of $2 was made to bring the appropriation to even figures.

Mr. Woodrum. The amount appropriated for 1936 was $44,262 and the estimate for the coming fiscal year is just about the same amount.

Mr. Dorsey. There is a decrease of $2 there to round out the figures. They cut $2 off the appropriation.

The situation there, Mr. Chairman, is this: During the first 5 months of the current fiscal year, shipments have increased nearly 40,000 pounds over the corresponding period of last year. For several years heretofore, owing to the smallness of the appropriation and the amount of work that we had to do, we have had to suspend shipments toward the end of each year; that is, hold the material over until the new appropriations became available. But we managed to skin by the last year without suspending shipment, and I think we will be able to do the same this year.

TRANSPORTATION OF THINGS

Mr. Woodrum. Will you explain the item, "Transportation of things, $16,275"?

Mr. Dorsey. That is for freight and postage. It is largely freight. We pay the cost of the freight on publications, largely publications of the Government that are sent to foreign governments in accordance with the treaty of 1886, to which this country is a party, and for which the Institution is its agent for the transmission of these publications. Returns from them go into the Library of Congress.

That expenditure is largely for the freight on these shipments. We send annually through the exchange service normally about 600,000 pounds of printed matter. The service is more than mere freight. We get publications from various sources in this country by correspondence that are wanted by foreign governments and municipalities. For instance, if the State Department receives a request for publications on some subject like traffic laws, municipal
traffic laws, and things of that sort, it refers such requests to the Institution. We make a collection of documents on the subject desired and send it to the foreign government making the request.

AMERICAN ETHNOLOGY

Mr. Woodrum. The next item is for American ethnology, as follows:

American ethnology: For continuing ethnological researches among the American Indians and the natives of Hawaii, the excavation and preservation of archeologic remains under the direction of the Smithsonian Institution, including necessary employees, the preparation of manuscripts, drawings, and illustrations, the purchase of books and periodicals, and traveling expenses, $58,730.

Dr. Abbot. The following is presented in explanation of this activity:

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Increase or decrease, 1937: 0

The work under this appropriation is concerned with investigations of the languages, customs, and history of the American Indians and the natives of Hawaii. It also provides for the study of archeology as related to these races and for the preservation of archeological sites. The urgency of this work is indicated by the continuing disappearance of the few survivors of a considerable number of tribes as well as many older Indians who alone are familiar with the original customs and culture. With their death there will be lost forever all opportunity for acquiring knowledge of the languages and cultures of these native American groups. In addition, the looting of ancient village sites of extinct aboriginal peoples is proceeding rapidly, and with them there is destroyed the story of our predecessors on this continent.

The estimate for 1937 carries no increase over the appropriation for 1936.

RESULT OF RESEARCH WORK IN AREA NEAR FORT COLLINS, COLO.

Mr. Woodrum. The amount asked for the coming fiscal year is the same as your current appropriation. Do you wish to make a statement on this item?

Dr. Abbot. Mr. Chairman, the Chief of American Ethnology is at the present time in Florida supervising some work down there in connection with other branches of the Government service. But he is represented by Dr. Roberts, who has just recently returned from, I think, a most important archaeological investigation, one of the most important which has ever been made in this country. Dr. Roberts has some of the specimens collected here, and I am sure will appreciate an opportunity to tell you and to show you what has been found.

Mr. Woodrum. Dr. Roberts, we will be glad to hear you at this time.

Dr. Roberts. The main interest and importance which attaches to the work which we have been doing this last summer out in northern Colorado is due to the fact that we have there the oldest archaeological complex yet found in North America. It is one which carries back to a very early period, from the standpoint of the occupation of this country. For the first time, we have a site
which gives clear indications that man was on this continent shortly after the close of the glacial period. How soon after he arrived, we are, as yet, unable to say.

The material which we find consists of a number of different kinds of stone implements; scrapers, knives, borers, and so forth, and projectile points characterized by a long channel on each face, a feature that is peculiar to the new world. No examples have been found outside of America.

We know that this is a relatively old cultural complex because the materials are found in association with extinct species of animals. We find them with an extinct form of the bison. They have also been found with the mammoth, with the muskox, and other cold-climate types of animals.

Up until this past summer the association had simply been one of points along with bones of animals in deposits. While all indications were that the material belonged together there was still a question as to whether it could be actually considered contemporaneous, because the points, for example, were simply found lying alongside the bones. As a matter of fact, the indications were that they had been in the animal.

But until this last summer we had no definite proof.

Now, however, as a result of work which we did we do have actual proof of the contemporaneity between the points and the animals. In this vertebra of an extinct species of bison we find the point actually in the channel for the spinal cord.

This vertebra came from a complete skeleton. We have all the rest of the animal, but kept out this one bone to show the unquestionable evidence which it gives us on the relation between the implements and the animal.

Dr. Abbot. You think that that point which is lying in the vertebra was the point which caused the death of the animal?

Dr. Roberts. If not directly responsible, at least indirectly, because the animal would be paralyzed from that point on down. His whole hind quarters would be paralyzed and he could not move. It would have enabled the people to approach him and strike him on the head.

Dr. Abbot. And this animal is an extinct form of the bison?

Dr. Roberts. Yes.

Mr. Woodrum. Of what period, have you any idea?

Dr. Roberts. That is still part of the problem which we have to work out. The indications at present are that it belongs to the very beginning of the recent or present period. Dr. Antevs, who has worked extensively with old deposits out through the Southwest and the West, tentatively places it in what he calls the pluvial period, which is the period immediately following or correlated with the retreat of the glaciers, when there was extensive rainfall all over that section, more so than at the present time.

Dr. Abbot. How long ago was that?

Dr. Roberts. Ten to fifteen thousand years ago is Dr. Antevs's estimate.

These are some of the other implements [indicating specimens]; they are characteristic projectile points. The feature which is individual is this groove along the face. It occurs on both sides. In the smaller examples it is not as pronounced, but it is there.
Dr. Abbot. How deep below the surface of the ground were those points found?

Dr. Roberts. The majority of these came from 17 feet below the present surface.

Dr. Abbot. And the ground is hard, or hard pan?

Dr. Roberts. Yes, very hard; hard packed. It is difficult to work. It is not rock, but it is a very compact old soil layer.

Mr. Woodrum. Did you find these samples in quantity?

Dr. Roberts. Yes. We have gotten only a few good specimens, but we find large numbers of broken points. The other implements, the scrapers, knives, and things of that kind occur in goodly number.

Dr. Abbot. Mr. Chairman, the remarkable feature about this particular work that Dr. Roberts has been engaged in is that he has found a quarry where these points were made, and it was evidently occupied by a good many people. So that there is hope that in further investigations we may even find the remains of these ancient people who were, so far as we know, the first inhabitants of America.

Mr. Woodrum. What part of Colorado is this?

Dr. Roberts. It is northern Colorado, due north of Fort Collins, a mile and a half south of the Wyoming line, just east of the Rockies. It is at the first break between the Plains and the Rockies, where the Plains slope up to the foothills.

The site, as we first found it, is shown here [indicating photograph]. The pit where some of the material comes from, or where I first found indications of it, is in the bank of this ravine. The pit is to the right of the automobile [indicating photograph], which also gives you a scale as to the size of the site.

This is when we first started in [indicating photograph]. We scraped out along the edge of the deposit, to get a foothold in order to push the digging back into the bank.

After we had located the deposit a year ago this fall, we went back again during the past summer and ran two deep trenches through the top of the terrace toward the pit where we found the first material. This picture was taken, when we had the trenches half way into the pit—in this one we had one trench practically through, and here as it was cut through the men are sifting the material [indicating photograph].

Mr. Fitzpatrick. Is that a hard surface there?

Dr. Roberts. Yes; very hard.

Mr. Fitzpatrick. Something like rock or hard pan?

Dr. Roberts. It is a soil deposit filled with great quantities of rock and sand which has become compact and hard. The material itself occurs in the definite soil layer underneath all this accumulated sand and gravel, rock and so on. The weight of the material above has made the stratum in which the objects are found extremely hard. While it is not rock, it is a very hard, compact earth, that is quite difficult to work except with great care.

Mr. Woodrum. What was it that first suggested investigation of this particular area where you found this material?

Dr. Roberts. The region was reported to us by Professor Coffin, of the Colorado State College, Fort Collins. He stated that he and his brother, Judge Coffin, at Fort Collins, had had as a hobby the collecting of material relating to the Indians, and in scouting around
they had found a site which seemed to them to represent something fairly old. His description and the account of the material was such that it seemed important enough to Mr. Stirling, Chief of the Bureau, to warrant my going out and inspecting the site. So a year ago this September I went out and spent 2 months prospecting around in the vicinity where the Collins had found the material and located this definite hidden deposit containing split animal bones and various stone implements. I was only able to dig there a short time with the help of but one man. The results, however, were so encouraging that this last summer I was sent back to Fort Collins and spent the months of June, July, and August, working through this site.

Mr. Fitzpatrick. Was this space [indicating on photograph] caused by your excavations?

Dr. Roberts. Yes; that is the end of the trench which we carried down into the deep pit. We ran trenches 10 feet wide through a strip 270 feet long. In the upper end of the trench, where we started in, it was 3 feet deep, and at the lower, where we came into the ravine, where the first deposits were found, it was 17 feet deep.

There was a tremendous amount of overburden, which is completely sterile. There is nothing whatever in it indicating human occupation. That all had to be removed in order to get down to the culture layer.

Mr. Fitzpatrick. Did you have to shore it up as you were excavating it?

Dr. Roberts. No; it was sufficiently hard that it held. We were fortunate in that it was good, compact material and would hold, so that we were spared the necessity of shoring up the excavation.

Mr. Woodrump. That is a very interesting statement, Dr. Roberts. Is there anything further to be said about it at this time, Doctor?

Mr. Dorsey. The appropriation, as you mentioned, is about the same.

Mr. Woodrump. Are you going to proceed with that work or have you completed it?

Dr. Roberts. No, sir. We hope to be able to get out there again this next summer. There is still a lot that can be done, and we have hopes of finding definite traces of the types of habitation which these people had, and also of finding skeletal remains of the people themselves.

Up to the present time we have absolutely no bone material to indicate what type of people made this kind of stone implements.

Dr. Amor. Mr. Chairman, I would like to make note at this point that the work that has been done on this very important archaeological site has been done by the aid of appropriation from the private funds of the Smithsonian Institution. The salary of Dr. Roberts is carried by the Government appropriation, but the funds which were used in his work were from the income from private funds of the Institution. This is merely a typical case which occurs frequently.

The work of the National Museum is promoted in that way in many instances. Every year we make allotments from private funds to enable Dr. Wetmore to carry on investigations with the aid of members of his staff. But with funds which the Government thus far has not seen fit to put at their disposal.

Mr. Woodrump. On this particular site you found no human bones?
Dr. Roberts. No human bones. They must be there, because the indications are that it was a very extensively occupied campsite. But there is so much overburden to remove that it is difficult to uncover any great area during the course of a season, and we have not located the cemetery or burial place that must accompany the site.

**ASTROPHYSICAL OBSERVATORY**

Mr. Woodrum. The next item is for the Astrophysical Observatory, as follows:

Astrophysical Observatory: For maintenance of the Astrophysical Observatory, under the direction of the Smithsonian Institution, including assistants, purchase of books, periodicals, and apparatus, making necessary observations in high altitudes, repairs and alterations of buildings, preparation of manuscripts, drawings, and illustrations, traveling expenses, and miscellaneous expenses, $30,850.

Dr. Abbott. The following statement is presented in explanation of this activity:

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The work under this appropriation is concerned with the investigations of solar radiation, the driving force for all life. The accurate measurements of variations in solar radiation, supported by a careful analysis of such measures, has given indications of a definite relationship between variations in solar radiation and weather changes. Several promising long-range weather predictions both of temperature and precipitation have been made as tests. An extension of solar radiation records will make possible more careful computations on this subject which is of wide economic importance.

The increase in appropriation for 1937 is explained as follows:

1. Total increase, $4.

The foregoing increase in appropriation was made to round out the appropriation to even figures.

Mr. Woodrum. Doctor, I notice that the Budget has recommended an increase in appropriation for this activity.

Dr. Abbott. From $30,846 to $30,850; yes, sir.

Mr. Woodrum. That is correct. Anyone who can get an increase from the Budget now certainly must have had your own persuasiveness with them.

Dr. Abbott. I hope we shall be able to use those $4 to advantage.

**STATUS OF INVESTIGATIONS AND RESULTS OBTAINED IN STUDIES OF WEATHER, TEMPERATURE, AND RAINFALL**

Mr. Chairman, this work, as I mentioned in my opening remark, seems to be more promising at this point than it ever has hitherto.

I published a paper in August in which I traced the variation of the sun and showed that it indicated periodicities which are repeated in the weather. I have traced the repetition of them in the weather of cities in various parts of the world and find that they affect both the temperature and the rainfall.

I have found that the periodicities are aliquot parts, or integral submultiples, of 23 years, and that the levels of lakes and the levels
of streams, and the thickness of tree rings and even the fisheries in the Atlantic Ocean show this 23-year periodicity.

Only the other day, Mr. Chairman, I was looking over some notes that I had made more than 20 years ago which I had completely forgotten, and I found I had made a quotation from a famous meteorologist of the past generation, Wild, of the Russian Empire. He made a study of temperatures of the Russian Empire from the year 1752 to 1879, and published this work about 1881. In that he mentions that he had found that the temperature of St. Petersburg also showed a 23-year period. I had not known of that for the last 20 years at least. I had forgotten about it. But it was very cheering to find that so eminent a man as that had found this cycle of 23 years formerly.

At the request of the Secretary of Agriculture, I made a study of the temperatures and rainfall of some 30 stations or more in the United States for a period of 3 years—1934, 1935, and 1936.

Nineteen hundred and thirty-four having lapsed, I compared the results with the predictions, and found that in 27 percent of the cases, including both temperature and rainfall, the agreement between the prediction for 1934 and the event was almost perfect.

In 42 percent it was as good as one could reasonably hope for, and for 17 percent the agreement was good for half the year and bad for the other half; and in only 14 percent of the cases was the agreement bad during the whole year.

I have, of course, kept these predictions locked up, because they are of such sensational character, if they were true, that one might fear that if they turned out not to be true there would be much mischief done by the publication of them. But it will soon be possible to compare for the year 1935 the prediction with the event, and should that turn out as well as 1934 I think it will be very encouraging indeed.

This work is based, as you know, upon the observations that are being made at our three solar-observing stations; one in southern California, at Table Mountain; one in northern Chile, at Montezuma, about 10 miles from the city of Calama; and one in Egypt, about 10 miles from the convent of Mount Sinai.

The Egyptian station is being supported by private funds donated by Mr. Roebling. He has been so much interested that he has made a further grant to enable us to carry on at least until 1938.

We find that the Egyptian station is practically on an equality, as far as its satisfactory conditions are concerned, with the South American station, which hitherto has been our best one. We are receiving now daily telegrams of the status of the solar radiation from South America and from Egypt, and these are in considerable demand by persons interested in the study of the weather.

I myself am making a study to see how far the short period fluctuations of the solar radiation may affect the weather and so far with very interesting results, which seem to indicate in the short period fluctuations of a few days there may be found a means of predicting the temperatures for perhaps 10 or 15 days in advance.

There appears to be a succession of events in temperature for 10 or 15 days which goes in one sense when the solar radiation has increased a little, and in the opposite sense when a solar radiation has decreased a little.

So that both as to long-period predictions and as to short-period predictions the work appears to give great promise.
Mr. Fitzpatrick. Can you tell the committee about what portion of the entire expense of the National Museum is borne by the Government and what percent is borne by private contributions?

Dr. Abbot. Of the Smithsonian Institution and all its branches?

Mr. Fitzpatrick. Yes; that is what I had in mind.

Dr. Abbot. It would be about 10 percent that comes from private funds, exclusive of the Freer Gallery income. Should that special enterprise and income be included, it would change the figure to about 30 percent.

Mr. Dorsev. Of the whole?

Dr. Abbot. Yes.

Mr. Dorsev. Yes; about 10 percent, not including the income from endowment for the Freer Gallery.

Mr. Fitzpatrick. That is, by the private funds or by the Government?

Mr. Dorsev. By the private funds.

Mr. Fitzpatrick. And 90 percent by the Government?

Mr. Dorsev. That is correct.

Mr. Woodward. That is the Smithsonian Institution.

Mr. Dorsev. Taken as a whole; yes.

Dr. Abbot. That would include the National Museum; the Bureau of American Ethnology; the Astrophysical Observatory, and all of the branches that we have except the Freer Gallery.

RELATIONSHIP BETWEEN THE GOVERNMENT AND THE SMITHSONIAN INSTITUTION

I might explain, sir, the relationship between the Smithsonian Institution and the Government. It is sometimes thought to be a little confused, but in fact it is not.

In the beginning, James Smithson dying, left his fortune of about $500,000 to the United States to found at Washington an institution for the increase and diffusion of knowledge among men. The Congress in 1846 passed the enabling act describing how the Institution should be set up and managed.

The first secretary of the institution, Joseph Henry, set up certain enterprises which became of great public moment. First, the National Museum, which was carried by the private income of the Institution for about 12 years up until 1858, I think it was, when the first congressional appropriation was made, as I remember, of only $2,000. And so on until now the National Government, realizing the great importance of the National Museum and its great interest—some 2,000,000 people visiting it yearly—now appropriates in full for its maintenance. The only support which the Institution gives to it from its private funds is in promoting such investigations as Dr. Wetmore may wish to make, and to add to the collections, or to obtain new knowledge. That will amount to about $10,000 a year.

At about the same time, Secretary Henry, seeing the provincial character of this country at that time as compared with the Old World, arranged the system of international exchanges, of which
we have already spoken. He arranged this as a channel through which the publications of the Smithsonian Institution and of the universities and learned societies of this country could be sent to representatives in all the countries abroad, and they would return to the Institution their publications. This led to a great increase in the Congressional Library. We have made there a deposit of some three-fourths of a million volumes coming to the Smithsonian Institution as the result of this system of exchanges. Presently the Government of the United States perceived that this was a fine channel through which to send its publications, parliamentary documents, Patent Office reports, and the like, and a treaty was entered into between the United States and foreign countries. So that that formed the international exchanges. This, Mr. Chairman, also came out of the private enterprise of the Smithsonian Institution, and it was not until some 25 years after the system had been started that the Government began to appropriate for it at all.

And so on through each one of these enterprises which the Smithsonian administers. They have grown out of private initiative of the Institution and eventually have become of such public value that the Congress has seen fit to appropriate for their maintenance.

The private funds, sir, I may say, are the soul of the enterprise, that from which its initiative proceeds, and the Institution acts for the Government as the administrator of these several bureaus which we are considering.

Mr. Woodrum. Thank you very much for that statement, Doctor.

NATIONAL MUSEUM

SALARIES AND EXPENSES

Mr. Woodrum. The next item is for the National Museum. The item is as follows:

For cases, furniture, fixtures, and appliances required for the exhibition and safe-keeping of collections; heating, lighting, electrical, telegraphic, and telephonic service, repairs and alterations of buildings, shops and sheds, including approaches and all necessary material; personal services and traveling and other necessary incidental expenses, $134,390.

Dr. Wetmore. The following statement is presented under this item:

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This appropriation deals with the maintenance and operation of the Museum buildings under the administration of the Smithsonian Institution, and provides for salaries of the mechanical force, for repairs and alterations of buildings in the Museum group, comprising the Natural History Building, Arts and Industries Building, Aircraft Building, South Shed, and such portion of the privately owned Smithsonian Building as is assigned rent-free to Museum use, for the purchase of electricity necessary for lighting the buildings, and for telegraphic and telephonic services. It also provides for such items as exhibition and storage cases and other appliances and containers for exhibiting, storing, and safeguarding the National Collections, which compare favorably with the great museum collections of the world, as they now number almost 15,000,000 specimens worth many millions of dollars.
The increase in appropriation for 1937 is explained as follows:

(1) Increase, personal services ........................................ $3,720
(2) Increase, miscellaneous expenditures ......................... 4,098

Total increase ....................................................... 8,718

The foregoing increase in appropriation is explained as follows:
(1) Three thousand seven hundred and twenty dollars increase to cover salaries of two senior mechanics. An additional painter and a cabinetmaker are required for making repairs to buildings and exhibit and storage cases. Two of our buildings are antiquated and in others urgent repairs are greatly in arrears. In addition, there is urgent need for construction and repair of exhibition and storage cases. Owing to a shortage of proper storage cases many specimens are inadequately safeguarded, a serious condition since all of this material is of considerable value either to science or the public at large, and many items are irreplaceable.

(2) Four thousand nine hundred and ninety-eight dollars for additional supplies. An increase of $4,998 is required for additional supplies, including lumber and other materials for storage cases, the purchase of boxes, trays, jars, vials, and similar containers to safeguard specimens. These facilities are urgently needed to provide for exhibiting and storing in a safe manner the specimens which are being constantly received in numbers. For some years the funds for this purpose have been entirely inadequate, with the result that many specimens may be subject to deterioration and loss.

Mr. Woodrum. Will you explain this item to us, Dr. Wetmore?

Dr. Wetmore. Mr. Chairman, the popularity of the National Museum with the public is very well shown this last year by the decided increase in our attendance. The total number of visitors registered for the fiscal year 1935 was 1,841,306, which is an increase of more than $75,000 over the year previous.

Last April we had the largest attendance we have ever had in the history of the Institution. There were 307,739 people passed through our halls in that month.

The increase in these figures has been highly interesting to me, as the attendance for the year is the third largest that we have ever had. The other 2 years with larger numbers were 1928 and 1929, during the period of maximum prosperity in the country.

Preservation of Collections

Mr. Woodrum. In connection with the National Museum you have an item, preservation of collections, which is as follows:

Preservation of collections: For continuing preservation, exhibition, and increase of collections from the surveying and exploring expeditions of the Government, and from other sources, including personal services, traveling expenses, purchasing and supplying uniforms to guards and elevator conductors, postage stamps and foreign postal cards, and all other necessary expenses, and not exceeding $5,900 for preparation of manuscripts, drawings, and illustrations for publications, and not exceeding $3,000 for purchase of books, pamphlets, and periodicals, $604,580.

Dr. Wetmore. The following is presented under this item:

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<tr>
<td>Increase, 1937</td>
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</tbody>
</table>

The funds under this appropriation provide for all expenses of the National Museum not carried specifically in other appropriations. It includes the principal funds for the maintenance of the national collections relating to arts and
industries, anthropology, biology, geology, and American history. The appropriation covers the salary roll for the curatorial staff as well as the guard, labor, and char forces. Under it there is carried on the work of identifying, classifying, exhibiting, and storing the national collections, the preparation of reports presenting the results of study of these collections, expenses in connection with additions to the collections, and the greater part of the cost of the maintenance of the extensive public exhibits of the museum, which are housed in three buildings and a portion of a fourth. It provides also for books for the museum library and for foreign postage used in the transaction of museum business.

The increase in appropriation for 1937 is explained as follows:

(1) Increase, personal services------------------------------------- $4,020
(2) Increase, miscellaneous expenditures-------------------------- 5,882

The foregoing increase in appropriation is allotted as follows:

(1a) $1,620 increase, clerk-stenographer for the Division of Fishes.

The Division of Fishes is at the present time entirely without clerical or stenographic services to handle the correspondence and cataloging associated with the care of this large, valuable, and rapidly increasing collection. This lack has thrown on the other members of an already inadequate staff added duties which serve only to reduce the time available for the care of the collection and for scientific work on the classification of specimens. The addition of the position indicated will benefit the Division out of all proportion to the cost involved.

(1b) $2,400 increase, two additional guards.

The Museum staff of guards is at present inadequate to perform the watch service necessary to protect the valuable exhibits in the national collections. Further, with the present dangerously understaffed watch force, it is impossible to give our guards a fair compensation of excused leave privileges for Sunday and holiday service. The two positions indicated, while not assisting greatly in returning leave privileges for Sunday and holiday service, will be a very considerable aid in bolstering up a service that is at present inadequate for our needs.

(2) $3,982 increase for the purchase of equipment.

The sum indicated is recommended for the purchase of technical equipment of various kinds needed in the increasing scientific activities the Museum furnishes to other Government establishments and educational institutions. Even after borrowings from individuals and other Federal units the scientific equipment of our laboratories and workshops is far below an acceptable standard of quantity and quality. This condition serves to reduce the output from our small staff and is an important factor in producing the large arrearage in our work which is increasing without interruption. Added technical equipment would save the time of the workers and expedite all of our scientific work.

Mr. Woodrum. Will you give us a statement on this item, Doctor?

Dr. Wetmore. In our operation this past year we have had the usual large offers of specimens for our collections. We make careful selection among the things that are brought to our attention, and I suppose we accept less than half of what is made available to us.

We take only those things that we consider of maximum importance that should be preserved in the national collections.

RECENT ADDITIONS TO COLLECTION OF SPECIMENS

The increase has been 296,468 new specimens, which is about the average of recent years. I have ventured to bring with me a few of those objects to give this committee some clue to the type of material that comes to us annually.

The Secretary has indicated the contributions of the Smithsonian Institution to the work of the National Museum in the field.
SPECIMENS RECOVERED BY DR. HRDLICKA FROM KODIAK ISLAND, ALASKA

Last year I made some comment on the work of Dr. Hrdlicka on Kodiak Island, which was continued again this past summer under private funds furnished by the Smithsonian Institution. Dr. Hrdlicka is investigating a large village site formerly inhabited by an ancient people who lived on this island off the coast of Alaska perhaps 1,500 to 2,000 years ago. He is recovering from the midden, containing refuse discarded from their houses, some highly interesting objects that denote something of their culture.

I have here a selection of slate points that are rather interesting. They were used for weapons in hunting or in fighting. They are made of a stone which is rather soft but at the same time hard enough to hold an edge and are especially interesting because they are capable of being sharpened, just as though they were of steel. If a point became broken or the edge dulled, it was possible to rub it on fine sandstone and bring it back to its former keenness.

Mr. Fitzpatrick. How would that be used as an instrument?

Dr. Wetmore. Some of them were fastened on the ends of sticks and used as spears or javelins. Perhaps they were all used that way. The spears might have been cast from throwing sticks, especially designed for the purpose.

Among other objects Dr. Hrdlicka found this curious carving on a piece of whalebone. It possibly represents a portrait or at least an attempt at caricature of some old man. It indicates a definite appreciation of art among these people and is really quite cleverly done, considering the difficult material from which it is made. In the Smithsonian Institution there are certain funds that have been given for specific purposes, with the proviso that the income will be used for the increase of the collections in the National Museum.

COLLECTION OF METEORITES

I have in mind particularly the Roebling Fund, given by Mr. John Roebling, in honor of his father, Col. Washington Roebling, which gives us income annually to be used for the increase of our mineral materials. Among all of our collections one of the most interesting to me is that of the meteorites. I have spoken of these before in this committee, and I wish today to exhibit one of especial interest, a stone meteorite secured recently from Nebraska.

There is, you will note, a peculiar gloss on the surface, brought about through heating as it passed through the atmosphere as it approached the earth. To show its difference, I have brought along for comparison this iron specimen.

Mr. Woodrum. That is cut from a section of a larger meteorite?

Dr. Wetmore. Yes; it is cut and polished. It is one that we have had for sometime which I have brought to show the contrast between the stone and iron types. This iron meteorite was found near Dunganon, Va.

Mr. Fitzpatrick. This one is heavy, is it not?

Dr. Wetmore. Yes.

Mr. Fitzpatrick. Would you call that a metal?

Dr. Wetmore. No; that one is stone.

Mr. Woodrum. What is the theory of where they came from?
Dr. Wetmore. Some of these may have formed part of other planets and some may not have had planetary connection. That is uncertain. All we know certainly is that meteorites are the only concrete things that come to us from outer space.

Mr. Woodrum. What reasonable evidence do we have that they came to us from outer space? These were picked up on the ground somewhere.

Dr. Wetmore. Yes.

Mr. Woodrum. What reasonable evidence do we have that they came from outer space? How do we know that they are not just a mineral deposit of the earth?

Dr. Wetmore. Meteorites have been seen to fall and have been recovered immediately. They have a structure that is not found in any of the mineral deposits of the earth. From that we know, when we find materials of this kind, that they are meteorites and that they have come from outer space.

Mr. Woodrum. In other words, you can demonstrate that?

Dr. Wetmore. Very definitely. We now have one of the best collections of meteorites in the world, and we are adding to this steadily through purchase under the income from the Roebling Fund, not from governmental appropriations.

Dr. Abbott. This specimen has certain characteristics. Meteorites always have the same composition, the same figures, when polished.

Mr. Wigglesworth. How large do they run usually?

Dr. Abbott. Among the largest was that obtained by Peary in Greenland, one of several tons. Another from South Africa was of greater size, being more than 40 tons in weight. They run all the way from that down to the size of dust. The shooting stars which you see so frequently when you are out in the country are meteorites, the smallest of which are burned up entirely before they pass through our atmosphere and reach the ground. But when they are large as those we are displaying they pass clear through the atmosphere and come to the ground, and are of such a characteristic pattern and appearance that there can be no doubt when you see a meteorite that it is one.

Dr. Wetmore. Meteor Crater in Arizona is quite definitely known now to have been caused by a meteor, that must have been of huge size. The crater is slightly less than a mile across, as I recall it, and is just sunk right in in a rather level terrain.

Mr. Fitzpatrick. Is there any record of a death being caused by the fall of any of these meteors?

Dr. Abbott. No, sir. There have been cases of their having fallen very near persons in broad daylight. There is the case in Alsace or Lorraine—one or the other—some years ago, where the meteor fell within a short distance of a peasant who was working. But I think there is no record of their ever actually having fallen upon a person and killing him. Of course, the world is pretty large, as you will notice if you begin to walk upon it, so that the chances of being hit by a meteor are so small that even with the number of persons in the world we have no record of anybody being hit.

Dr. Wetmore. There is a record of one having fallen on board ship, which would be a chance, of course.

Mr. Woodrum. Do they have any chemical or geological elements that are peculiarly characteristic to them?
Dr. Abbott. Their composition is not very different from that of the world as a whole. You will notice the iron meteorite has iron and the nickel and some other materials and the stony meteorite has some of the other components of the earth. It has been investigated and found that it is probable that the composition of these things differs very little, on the average, from that of the whole earth.

The interior of the earth is supposed to be of iron and nickel. The weight of the earth shows that it is necessarily of a metallic character, for the specific gravity of the earth is something like 5.5 times that of water, and no such materials as we find upon the surface which have a specific gravity of from 2 to 3, could possibly make up the weight of the earth as a whole. So it is believed that the interior of the earth, both on that account, and on account of the observations of earthquakes and other ways which they have of estimating the characteristics of the earth, must be largely of metallic composition and probably of iron and nickel, much as that meteorite is.

So that it seems to show that the materials from out of space which come to us in this way are essentially of the same composition as the earth itself.

It has been mentioned that these come from outer space. You will recall, sir, outside of the orbit of the earth, there is a great number of bodies called the asteroids which also go around the sun as the earth does, between the orbit of Jupiter and that of Mars. Some one thousand of these have been discovered already, varying in size from maybe 30 miles in diameter down to just the size of small rocks. These are constantly going round and round the sun in orbits.

Then there are also the comets going round the sun in very elliptical orbits.

It happens that the orbits of some of these bodies going about the sun are intersected by the orbit of the earth, and where that occurs naturally we have a shower of meteors, meteorites. So that most of these bodies are members of the solar system going in elliptical orbits around the sun, and when our orbit intersects with their orbit we get a shower of meteorites.

**SPECIMENS OF ZIRCON**

Dr. Wetmore. There are other interesting things that we have obtained through the Roebling fund. Here are two zircons of unusual size. These come from Siam. The brown [indicating specimens] is the natural color. Such specimens are embedded in sand and heated to a certain temperature when they turn blue like this second specimen. To my mind the zircon in its fire exceeds the diamond. These are two exceptionally fine specimens.

Mr. Woolrump. Are they very valuable?

Dr. Wetmore. Zircons of first quality run about $10 a carat. The biggest one of these two—of course, size increases the value somewhat—is worth about $700; the other possibly $500.

Here is a specimen of crystalline gold from one of the mines in California [indicating specimen].

Mr. Fitzpatrick. Is the color of these zircons brought about by heating?
Dr. Wetmore. They are heated to a certain temperature and their color gradually changes from brown to blue.

Mr. Fitzpatrick. What is their natural color?

Dr. Wetmore. Brown is the natural color. This blue one [indicating] has been heated.

**C R Y S T A L L I N E  G O L D**

Here is quite an unusual specimen: A diamond crystal in the matrix. Diamonds are usually found loose in clay.

Mr. Woodrum. That is a diamond?

Dr. Wetmore. Yes. The bright crystal at the end is an uncut diamond.

Mr. Fitzpatrick. What do you call this [indicating another specimen]?

Dr. Wetmore. That is crystalline gold. With the gold there is a small amount of telluride of lead, which is gray in color.

**J E W E L  B O X  O F  E N G L I S H  O R I G I N**

Among curious art objects recently obtained is this little jewel box of old English origin. It has a dummy keyhole [indicating] here in the front, but the actual keyhole is concealed under this central movable bar, where it is entirely hidden. Unlocked it displays a very ingenious type of lock with several tumblers on three sides. Any jewel box should contain treasures. In this one I find a shekel, worth perhaps 40 or 50 cents, that is quite old, as it dates back to 143 B.C.

Here with it is the widow's mite that we read about in the Bible.

Mr. Fitzpatrick. Where does that come from?

Dr. Wetmore. The box is old English. It dates back to the seventeenth century.

**C H I N E S E  M A N D A R I N  S E A L  R I N G**

From China comes this Mandarin ring seal, quite unique and interesting. It is used as a finger-ring.

Mr. Woodrum. That is metal covered wood?

Dr. Wetmore. Yes; the metal is gold.

Mr. Fitzpatrick. Is this specimen gold?

Dr. Wetmore. No; the box is brass. These objects are illustrative of some of the many treasures that we have collected.

Mr. Woodrum. Are these new acquisitions?

Dr. Wetmore. Yes, sir; these are new acquisitions, that have come to us in the past year.

Mr. Woodrum. Where did the ring come from? Do you know the history of it?

Dr. Wetmore. It came with a collection of Chinese objects as a gift.

**I N C R E A S E D  P E R S O N N E L  F O R  M A I N T E N A N C E  A N D  O P E R A T I O N**

In our appropriation the Budget has allowed certain increases, in view of our necessities in caring for all these treasures. Under maintenance and operation there have been added under personnel two additional senior mechanics, one painter, and one cabinet maker and
carpenter. These are required to assist in our maintenance work, in repairs to our buildings, and in constructing the necessary cases and storage containers for our collections.

Our shops are very efficient, but they are not sufficiently manned at the present time, and these additional positions are very definitely needed in order that we may properly prosecute our work.

INCREASE IN ESTIMATE FOR SUPPLIES

There is also an increase of $4,998 for additional supplies, to cover the purchase of lumber for storage and exhibition cases, and storage containers of various kinds for the many types of specimens that come to us. These include glass jars and vials for specimens in alcohol, boxes and trays for other types, and various pasteboard containers that we need to guard our materials against damage and deterioration.

Those are the only two additions under this appropriation for maintenance and operation.

CIVIL-SERVICE STATUS OF EMPLOYEES

Mr. Woodrum. May I interrupt to ask a question? All of your people are under civil service?

Dr. Wetmore. Yes.

Mr. Woodrum. That is, both the Smithsonian and the National Museum?

Dr. Wetmore. Yes.

Dr. Abbot. With the exception of a few cases. My own salary is carried by the private funds and that of the editor and some few others.

Mr. Woodrum. But all of your clerical and routine help are under civil service?

Dr. Abbot. Yes.

EMERGENCY RELIEF EMPLOYEES ASSIGNED TO SMITHSONIAN INSTITUTION

Mr. Wigglesworth. Have you had any assistance of emergency funds or emergency workers this year?

Dr. Abbot. I think perhaps Dr. Wetmore or Mr. Graf could explain those better than I. There were some cases.

Dr. Wetmore. In the hearing last year I spoke of help that we had received under the F. E. R. A. through personnel assigned from the District of Columbia relief agencies. At the beginning of the fiscal year we were employing an average of 75 workers—33 women and 42 men. This work continued until the 6th of November 1935, when it was cut off. The people came to us from the District authorities, and while we kept the pay rolls the actual disbursements were made under the District of Columbia. The persons were employed in making up arrearages in connection with the handling and arrangement of our collections. The work was limited to preserving specimens, books, and records, and in preparing collections for use in research or exhibition.

At the present time we have a group of six people under what is known as the "Federal art project." That work began on the 12th
of November 1935 and is still progressing, and again, the personnel
is assigned to us from the relief agencies under the District of
Columbia.

The persons covered are artists of various kinds who are doing
work in modeling in clay, in the preparation of original drawings,
and in lettering specimens and exhibits.

Mr. Fitzpatrick. Their positions are not of a permanent nature,
but only temporary?

Dr. Wetmore. These are temporary and are people from the relief
rolls.

Mr. Fitzpatrick. And it will not be necessary to continue that
work after they have finished that particular job?

Dr. Wetmore. No, sir.

Mr. Woodrum. And you are paying relief wages to those people?

Dr. Wetmore. Yes. In addition, in Florida there are two proj-
ects in archeology that are financed under the W. P. A. by the State
authorities, our only connection with them being to furnish
supervision.

One of these projects is located in Dade County and one near
Tampa, in Hillsborough County. They have just begun—are barely
under way, as a matter of fact. The last report showed about 300
people employed.

Mr. Fitzpatrick. Is the work of a necessary character, of which
you people approve?

Dr. Wetmore. Yes, sir; entirely so. The project contemplates
investigation of ancient Indian mounds, from which there will come
useful information. I will repeat that our only connection with
them is that of technical supervision.

HIRE OF TEMPORARY EMPLOYEES

Mr. Wigglesworth. Please explain this item of $1,700 for tempo-
rary employees.

Dr. Wetmore. It is for additional labor of a temporary nature,
required from time to time, in the handling of our work. Under
it we put on extra laborers and mechanics, such as carpenters and
painters, as urgencies in our administration develop. There is no
increase in this item over previous years.

PERSONAL SERVICES FOR MUSEUM MAINTENANCE AND OPERATION AND
PRESERVATION OF COLLECTIONS

Mr. Woodrum. In the last two items you have an amount for
personal services. Will you explain that?

Dr. Wetmore. A number of years ago the appropriations for the
National Museum were carried under six separate items. But some-
time since, after discussion with the Bureau of the Budget, they
were combined under these two items, entitled maintenance and
operation, and preservation of collections.

In general, maintenance and operation covers the physical han-
dling of our building, repairs, upkeep, renovation.

Preservation of collections has to do with the care of collections
and of exhibits.
Mr. Woodrum. In that you have a personnel of 327 for 1936 as against an estimated personnel of 330 in 1937?

Dr. Wetmore. Under preservation of collections, there are three new positions that have been allowed by the Bureau of the Budget. The first is that of a senior stenographer for the Division of Fishes. The salary is $1,620 per annum.

The division of fishes is one of the largest divisions in the National Museum and has under its charge a collection of about 750,000 specimens preserved in alcohol. The personnel at present consists of an assistant curator, an aide, and a laborer. At the present time there is no permanent clerical or stenographic help in that division and it is necessary to give temporary assistance of that nature, as funds may be spared for that purpose.

Temporary assistance is always unsatisfactory, because the work is specialized, and by the time a temporary worker is well trained in the job, it is necessary to let him go.

At the present time the assistant curator in charge is under the necessity of doing personally a good bit of his own typing, as well as miscellaneous clerical work, for which permanent help should be provided.

The efficiency of the unit demands that this clerical position be added.

There are two further new positions, two additional guards at a salary of $1,200 per annum each.

Our guard force is far from adequate for our needs. The men are required to work on a 24-hour-a-day basis. In other words, the collections must always be guarded, with the necessity for this continuing straight through the week, including Sundays and holidays. By law it is required that we give this group excused time for Saturday afternoon service. That is done. Beyond that, while we give the force as much excused time for the extra Sunday and holiday service as possible, they do not receive anywhere near what is coming to them.

There are 52 Sundays in each year, with 7 additional days that are recognized as legal holidays, making 59 days on which ordinary labor is not required under the Government service.

Our guards, under present conditions, get excused time on an average of from 36 to 40 days per year for the 59 Sundays and holidays that they work; no more. The addition of two guards, while it will not help the situation to great extent, at the same time will be of definite assistance in insuring fairer treatment for our watch force.

Mr. Woodrum. These positions, both of the stenographer and of the guards, are civil service; these men are taken from civil-service registers?

Dr. Wetmore. Yes, sir. Further than that, there is an estimated increase of $5,982 for equipment.

need of additional equipment

We have been operating under even stricter economy than ordinarily in recent years, reducing expenditures wherever possible. As a result, our equipment is down far below par at the present time. In a good many places men are using instruments of their own or borrowing instruments, as they can, from other departments.
to carry on the necessary work of the Institution. It is not a proper condition and one which should not be allowed to continue.

There are many things that we definitely and urgently need at the present time as additions to our equipment. We could expend 10 times the amount recommended without any extravagance whatsoever. The item is essential to our operation.

Mr. Woodrum. Other than that, the appropriation is the same as for the current fiscal year?

Dr. Wetmore. Yes, sir.

**NATIONAL GALLERY OF ART**

Mr. Woodrum. The next item is for the National Gallery of Art, and reads as follows:

For the administration of the National Gallery of Art by the Smithsonian Institution, including compensation of necessary employees, purchase of books of reference and periodicals, traveling expenses, uniforms for guards, and necessary incidental expenses, $34,275.

Dr. Abbot. The following justification of this estimate is presented for the record:

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Increase or decrease, 1937: 0

This appropriation provides for the work of the National Gallery of Art, which is responsible for the custody, preservation, and exhibition of that portion of the national collections relating to the fine arts, and including principally paintings and sculpture. It provides for the salaries of the staff and minimum running expenses, and under it is carried on the extensive public contacts relating to the fine arts, and scientific and curatorial work on the collections.

The estimate for 1937 carries no increase over the appropriation for 1936.

Mr. Woodrum. The amount estimated for 1937, $34,275, is the same as the appropriation for the current year.

Mr. Dorsey. Mr. Chairman, this carries the same appropriation as for the current year. Operations have been going on on the same plane; and while, of course, we need a great deal more money to carry on the gallery, I think if we get this appropriation we will be able to continue operations as at present for the next year.

**NEED OF NATIONAL GALLERY OF ART BUILDING**

Dr. Abbott. Mr. Chairman, the position of the National Gallery of Art is, in a large way, pitiful. We have a certain portion of the Natural History Building of the National Museum set apart, at great sacrifice to the museum itself, for the National Gallery of Art. But I suppose three-quarters of the specimens are in storage, not because they are not interesting or ought not to be exhibited but because there is actually no room to exhibit them.

There has been a movement for many years, as you know, sir, to provide for the country an adequate and suitable national gallery of art building.

Some years ago a site was set aside on the corner of Seventh Street and what is now Constitution Avenue, but that is, besides being
too small, now intended for a breathing space in the Mall and is not any longer available. That site was set apart by Congress, I think, about 15 years ago.

It has been suggested that the site opposite the Department of Agriculture be used, between that and the greenhouses, but that also is pretty small for an adequate building, and it is not very suitable from the point of view of its surroundings, for the great Labor Building, which is opposite, would rather overshadow it. It would seem that even that site is not very suitable.

So that the question even of a site for the National Gallery of Art Building which would be harmonious and in keeping with the greatness of this country is not as yet settled.

As you know, sir, public interest has been very much aroused by the gifts of Mr. Andrew Mellon to his trust, which he has erected, which includes some twenty-odd million dollars worth of the finest paintings and objects of art which exist in the world; and now recently $10,000,000 toward the erection of a suitable building to exhibit them in, in Washington, if it can be arranged before 1941.

There are, as you know, several difficulties now standing in the way. In the first place, there is litigation between the Government and Mr. Mellon on the matter of taxation on these great gifts of his to this trust.

Again there is a question as to the site for this building, which Mr. Mellon has so generously provided the funds for, to be erected. That would require an act of Congress to set aside a site for that purpose, unless he should buy it personally which, if he did, would require probably $5,000,000 or thereabouts and would use up a large portion of the funds which he has set aside for the building.

Then there is the question of the maintenance of such a gallery after it was provided.

In the case of the Freer Gallery, as you recall, sir, the specification of Mr. Freer called for the maintenance by the Government, which has always been done. We have an appropriation, as you know, for the maintenance of guards and other employees connected with the maintenance of the Freer Gallery.

So that here again, if Mr. Mellon's gift should come forward, it would require an act of Congress.

I mention these things, sir, to show you how many difficulties surround the procurement of a great national gallery of art.

We have nothing that could be called so at the present time with the exception of that beautiful gem, the Freer Gallery, which is a branch of the National Gallery, and which was endowed and built by Mr. Freer under the auspices of the Smithsonian Institution. But, for the National Gallery as a whole, or even for Mr. Mellon's proposed gift, there is as yet no suitable provision by Congress even of a site. It is a great pity, sir, that nothing has as yet been done to put this country on a par with the other countries of the world in this respect.

It is a matter which is of the very greatest interest to the people of this country and to the world, and if something were done which would forward this very useful and highly desired project it would be very much desired.

Mr. Woodrum. Thank you very much for that statement, Doctor.
PRINTING AND BINDING

Mr. Woodrum. The next item is for printing and binding, which is as follows:

For all printing and binding for the Smithsonian Institution, including all of its bureaus, offices, institutions, and services located in Washington, District of Columbia, and elsewhere, $55,000, of which not to exceed $8,000 shall be available for printing the report of the American Historical Association.

Dr. Abbott. The following statement is presented in explanation of the printing and binding estimate:

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<tr>
<td>Increase, 1937</td>
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This appropriation provides for the printing of the Smithsonian Annual Report and its appendix, and for printing of publications covering the scientific work of Federal branches under the administration of the Institution, and of miscellaneous cards, forms, and labels necessary in the work of such units. It also provides for the binding of periodicals and books for the library.

The increase for 1937 is explained as follows:

<table>
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<th>Item</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Increase, printing and binding</td>
<td>$30,000</td>
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The reduction in the printing and binding appropriation from $104,000 in 1932 to $55,000 in 1934 with later increase to $25,500 has resulted in the accumulation of a considerable arrearage in both printing and binding. Manuscripts of wide general interest relating to the scientific work of the Smithsonian were laid aside. In the same manner the publications of the American Historical Association were reduced and manuscript accumulated. It was also necessary to stop the binding of serial publications for the Smithsonian library, a dangerous practice and one certain to be attended with some loss of these indispensable reference works. In order to meet the more urgent needs as fully as possible the increase of $30,000 will be allocated as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Printing for the Smithsonian and its bureaus</td>
<td>$21,200</td>
</tr>
<tr>
<td>Binding, Smithsonian library</td>
<td>5,000</td>
</tr>
<tr>
<td>Printing, American Historical Association</td>
<td>3,800</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30,000</strong></td>
</tr>
</tbody>
</table>

Mr. Woodrum. There is an increase asked from $25,500 to $55,500, the increase amounting to $30,000. Will you explain that?

Dr. Abbott. Mr. Chairman, when the economy measures were taken several years ago, the appropriation for the Smithsonian Institution was so far reduced that it would have been impossible to maintain our force of skilled persons on the staff if all departments were proportionately reduced, and it seemed that the best way to meet the reduction would be by temporarily cutting off the printing and distribution of knowledge from the Institution's branches.

So that the appropriation for printing, which had been approximately $100,000 a year, was reduced at first to $5,500. Last year it was increased to $25,500, in order that we might publish the annual reports of the Institution in the form in which it has been so acceptable to the public, and to give something toward the support of the American Historical Association publications.

Yet the publications of the National Museum and of the Bureau of American Ethnology have been so far reduced that manuscripts of great value telling of results of investigations of the collections have been accumulating and are still unpublished.

We made a very strong statement to, and request of, the Bureau of the Budget this year for an increase to help to clear up some
of these accumulations, and to give to the American Historical Society something more like what it used to have for the purpose of publications regarding American history.

The Bureau of the Budget has allotted, as you see, sir, an increase of $30,000 over what we had for the present year.

Dr. Jameson, who is the representative of the American Historical Society, is present, and I would be glad if he were given an opportunity to make a statement in regard to the association's need for printing.

**MATERIAL AWAITING FUNDS FOR PRINTING**

Mr. Dorsey. Mr. Secretary, may I say one word about the publications of the Bureau of American Ethnology? We have now on hand, from the working members of the staff and collaborators, $67,000 worth of printing, which we cannot touch unless this appropriation is carried. That will allow the Bureau only $9,000 for printing this year, out of the total increase of $30,000 over the present sum.

Dr. Wetmore. Mr. Chairman, if I may add to that, in the National Museum the editor has now on hand $30,000 of completed manuscripts. I have, either in my office or in the hands of the staff, an even larger amount that is ready for publication whenever funds can be provided.

In other words, we now have approximately $75,000 worth of useful material that can be printed, and it is hoped to handle a small part of that under this item.

Mr. Fitzpatrick. What do you do with these publications after they are printed; are they made available to the general public?

Dr. Wetmore. The general public; yes.

Mr. Fitzpatrick. Is there a possibility of, or is it feasible to make a small charge, to pay the expense of this printing?

Dr. Wetmore. Our own distribution is to libraries, and in a way to specialists. The editions that we publish ourselves are small. The law restricts us to a maximum of 4,000 copies of each paper, and in many cases we issue less than that, where the subject is technical and interest is not general.

In the case of publications of general interest, like Mr. Bent's Life Histories of North American Birds, a very popular subject, the Superintendent of Documents, under a revolving fund at his disposal, prints an additional edition that he sells at cost. Where that is done, we pay the expense of typesetting and composition, and he has only the necessity of paying for the paper, printing, and the binding.

The publications are thus sold and distributed at nominal cost.

Mr. Fitzpatrick. But to a small number of people.

Dr. Wetmore. Our own distribution goes out largely to libraries. We send them to from 800 to 1,200 libraries in this country and throughout the world; certain ones that are designed as depositaries receive all of our publications. That gives central points to which students may repair to get the scientific material that we disseminate.

Mr. Fitzpatrick. What I was trying to find out is whether a charge could not be made to help defray the cost of this printing.

Mr. Dorsey. Many of these go to institutions which, in return, lend publications to the use of our staff.
Mr. Fitzpatrick. I appreciate that, but these are just given to the general public.

Dr. Abbot. Distribution is made to libraries and institutions which send us material in exchange and to charge them for it would make a rather delicate situation.

Mr. Fitzpatrick. I can understand that. I am not questioning that at all.

Dr. Abbot. I think outside of that the distribution is very small.

BINDING NEEDS

Dr. Wetmore. Under this appropriation we carry also the expense of binding for our libraries. Our needs in that direction are very definite and continuous.

Many of the publications that we receive for our libraries come in leaflet form, and in such form are available only for limited use. There is always the danger of parts being lost unless the finished volume is bound. Once lost the volume may be completed only at considerable expense or perhaps not at all.

Then, among the older books, there is always a necessity for rebinding.

To illustrate my meaning, here is a volume that was published in 1839, a very valuable book, the first edition of Darwin’s Journal. It is still in the original binding and is now very much in need of repair. Something should be done with this volume before it is too late, or it will be completely destroyed.

Mr. Woodrum. We shall be glad to hear from you now, Dr. Jameson.

PRINTING FOR THE AMERICAN HISTORICAL SOCIETY

Dr. Jameson. Mr. Chairman and gentlemen, Professor Stack and I, it so happened, had word of this hearing only a few minutes before we had to come over; so in respect to figures and dates, I may speak only approximately but I think almost exactly right.

The first appropriations of a definite sort for printing for the American Historical Association—this appropriation is solely for printing, and that is all it gets from the Government—began in 1907.

Before that, there were definite appropriations, and we had an average of about 1,400 pages a year to print, so that the appropriation was set at $7,000, which at that time was the cost of printing about 1,400 pages; 2 volumes of 700 pages each, at the Government Printing Office.

It stayed at that figure from 1907 until, I think, 1929. In the meantime, the cost of printing at the Government Printing Office had risen so that I represented to this committee, considering the figures for, I think it was 1930, that $12,000 would do only in the way of printing what $7,000 was originally intended to achieve, and it was put for that one year at $12,000, and then I think the next year at $8,000.

Then there were 2 years when no appropriation was made for any printing for the American Historical Association, although it is, by law, required to report to the Smithsonian and does so.

Mr. Douglas put in an estimate in his budget, I think for the year before last, of $8,000 for printing of two of the annual bibliographies, which make a part of the annual report, and the Appropriations Committee resolved upon that and carried that through in the second deficiency bill.
Then for this present year an appropriation of $4,200 was made. Now, $4,000 will hardly do more than print the annual bibliography, the thing that must be maintained; that is to say, in any publication of an annual bibliography, if you omit 1 year or 2 years, it becomes fatal.

So that this volume, which lists all the books, pamphlets, articles, and periodicals that appear on American history in a given year, we maintain annually, and that would be one feature of any report that might be made.

Naturally, the committee would wish to know what we would do with an appropriation of $8,000.

First, another one of these annual bibliographies which perhaps members may be interested in, which is very carefully done, and costs the Government nothing so far as the compilation is concerned, only for the printing.

Then we are required by the act to report to the Secretary of the Smithsonian Institution the proceedings of the association. Those do not take up a great deal of space, only that we now have the proceedings of 3 years to make up, because of the 2 years in which the appropriation was not made, and the $4,200 appropriation in this year will not cover that unless a little is left over.

The proceedings will, therefore, for 3 years, take quite a portion of the remainder of that $8,000.

We should hope that there would, however, also be the possibility of doing what I say is the third element in our printing. It is not expedient for any Government publication to publish histories that individuals may prepare. They are the point of view of one individual.

What such societies do in all countries, with any government money, is to print the materials for history which may be put at the service of all historical writers, and that the American Historical Association has done rather extensively.

With more time for preparation, I had intended to bring over here a truck load containing a series of the annual reports, so that you could see how valuable a source of material for American history the society has published since the old days when it published only two volumes, and one would be of that sort.

Here I have the correspondence of John C. Calhoun; the papers of James A. Bayard, the negotiator at Ghent; the correspondence of the French Ministers to the United States. These vary in size according to the amount of money that there was to spend at any time. This is the correspondence of the French Ministers, the earlier French Ministers from 1791 to 1797, in the Revolutionary period.

Here is a volume of the Austin papers with respect to the early days of Texas. This [indicating] is the correspondence of R. M. T. Hunter, of Essex County, Va., Secretary of State of the Confederacy. It was correspondence before the Civil War.

This is the diary and some of the correspondence of Secretary Chase, Secretary of the Treasury in Lincoln's Cabinet.

This is the autobiography of Martin Van Buren, which, I think, was rather our best seller. I remember that the Member from that kinderhook district caused an additional 1,000 to be printed to meet the demand. It is a very interesting book.

The latest of that series has been the printing of the diary before and during the Civil War of Edward Bates, Lincoln's Attorney
General, a very important source of additional information regarding
that period.

What we should plan to do with this $8,000, aside from the bib-
liography and the proceedings for the 3 years that have now accumu-
lated, is a manuscript that is now already nearly ready for publica-
tion—all the text is ready and most of the annotations, only some
of the annotations are needed to complete it, but which I think would
be very important to print—of a series of instructions given by Gren-
ville and his successors, foreign secretaries of England, to the earlier
British Ministers in Washington, or Philadelphia and Washington,
running from 1791, when the first minister was appointed, until the
War of 1812.

That is important for this reason, that here is a study of diplo-
matic history which so often is made only with the papers of one
side—as I say here is an opportunity to examine all of the earlier
diplomatic relations between England and the United States, and
know exactly what the plans of Great Britain were, what the instruc-
tions were to their representatives here; it shows the other side of
the diplomatic negotiations, and is very important as illustrations.

That is what we should wish to do with the appropriation. I may
say, while I am not in a position to compare the amount of money
spent for historical publications by this Government with that of
the major European governments, comparing the amount of print
that actually results, which is easier to get than the figures in
budgets, which always require some interpretation, the Govern-
ment of Great Britain publishes, in the way of history, about three
times what we do, although they are burdened rather more heavily,
perhaps, than we are with other expenditures. Similarly, France
prints about twice as much as we print, usually, practically always,
source material for histories, from which historians of whatever
party or way of thinking may draw their inferences and write
their books. But they have got to have their material.

We usually print, as you see, source materials, correspondence, or
other materials, which never have been published before. Professor
Stack can tell you more than I can of the exact present state of our
publications.

Dr. Abbot. Mr. Chairman, I would like to add this: The printing
and binding item, as you see, is a lump sum, and it is up to us to
allot from it to the American Historical Association. I call your
attention to the fact that whereas formerly, when we received $100,-
000 they obtained from 8 to 12 thousand dollars, that now with
$25,500 they have received $4,200, so that they have been receiving
a larger proportion of our total than heretofore, very considerably
larger than we allotted in good times. I make that statement to
show that we were not intentionally stingy with the allotment of
the lump sum to Dr. Jameson.

Dr. Jameson. I am sure that the American Historical Association
appreciates always the liberal policy that the Smithsonian Institu-
tion has pursued toward us in these matters of printing.

Mr. Woodrum. I am sure that the committee will be very glad to
give very serious and sympathetic consideration to the suggested
Budget's generosity. I am glad that they have suggested so much
more for this purpose.

We thank you very much, gentlemen.