



SMITHSONIAN INSTITUTION, WASHINGTON, D. C.

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DEFENSE OF MOON EXPLORATION BY SAO DIRECTOR

Fred L. Whipple, Director of SAO, came to the defense of this nation's exploration of outer space recently with the words: "I visualize the day, not too many decades in the future, when the moon will replace Niagara Falls for honeymooners. . . ." For Dr. Whipple the answer to those persons who say why put so much money into the unknown when there is so much to be done on earth is: "Whenever an individual, a culture, a society, a nation has a challenge to go ahead and does not accept that challenge, it then retrogrades."

SPECIAL EXHIBIT FOR BLIND

The Smithsonian has recently received a \$15,000 grant from the U. S. Office of Vocational Rehabilitation to set up a special exhibit for the blind, with small objects they can handle, labels, in Braille, and listening devices.

INCA SKULL SURGERY

The Smithsonian unveiled a large mural on February 28 showing an Inca surgeon cutting open the skull of a living patient in the ancient city of Machu Pichu, high in the Peruvian Andes. The 7- by 12-foot mural, painted by Alton S. Tobey of Larchmont, New York, may be seen in the new Hall of Physical Anthropology, located in MHT.

To ensure the authenticity of his dramatic scene, Mr. Tobey visited the ruins of Machu Pichu to select a setting for the operation and examined Inca relics in the museums of Cuzco and Lima. He also talked to surgeons on present day skull operations.

The artist has long been interested in depicting historical subjects. Mr. Tobey is a graduate of Yale, where he also taught art, and has illustrated numerous articles in *Life Magazine*, including parts of the series "Epic of Man." Dr. T. Dale Stewart, Senior Scientist, Office of Anthropology, himself an M. D., said that the mural "supplements and helps explain an adjacent exhibit case in the Hall of Physical Anthropology filled with actual skulls from Peru that had undergone surgery like that pictured—known as Trephination."

Mr. Tobey was joined at a private unveiling of the mural by Celso Pastor, Ambassador of Peru, and Dr. Stewart.

STAMP AND POSTAL HISTORY DISPLAY

A new exhibit scheduled to open on May 21 is the Stamp and Postal History Display. It will be opened during the 6th International Philatelic Exhibition, held here in Washington from May 21 to May 30.

The exhibits will feature many portions of the Smithsonian's priceless reference collections not normally on public view, reports Carl H. Scheele, curator of philately and postal history. Also to be shown are rare plate and die proofs, mail carried by balloons during the Siege of Paris (1870-71), airmail covers flown by German Zeppelins during the period 1909-36, rare foreign and United States covers, and, in addition, the unique cover and letter carried on the officially sanctioned flight of the balloon *Jupiter* from Lafayette, Indiana, on August 17, 1859.

The rare U.S. 24-cent airmail stamp with an inverted center also will remain on exhibition.

NEW DIRECTOR FOR SMITHSONIAN PRESS APPOINTED

Anders Richter has been appointed by Secretary Ripley as Director of the Smithsonian Institution Press to succeed Paul H. Oehser, who officially retired in December 1965. Mr. Richter will join the staff in May. He is now an Assistant Director of the University of Chicago Press, a position he has held since July 1964.

A native of Chicago, Richter holds A.B. and M.A. degrees from Columbia University. Following the completion of his graduate work in 1952, Richter joined R. R. Donnelley and Sons of Chicago, leaving seven years later as a junior executive in that printing firm's sales and production department. He joined the University of Chicago Press in 1959 as Assistant to the Director. Six months later, he was appointed business manager, a post he held for three years. In 1962, he accepted a position as Science Editor, and then Managing Editor.



Inca skull surgery depicted in mural in background. In foreground from left to right are the Honorable Celso Pastor, Ambassador of Peru, Dr. T. Dale Stewart of the Smithsonian, Mrs. Tobey, and the artist Mr. Tobey.

THE SMITHSONIAN TORCH



AN EMPLOYEES' NEWSPAPER, PUBLISHED MONTHLY

EDITORIAL BOARD: S. PAUL JOHNSTON, PAUL H. OEHSE, WILLIAM WARNER

EDITOR: ELIZABETH BEVERLEY

PHOTOS: ALBERT J. ROBINSON

SMITHSONIAN REGENT



Crawford Hallock Greenwalt, Regent of the Smithsonian Institution, has been serving since 1948 as President of E. I. DuPont de Nemours & Co. Born in Cummington, Mass., on August 16, 1902, he received his B.S. degree from the Massachusetts Institute of Technology. He joined DuPont in 1922 as assistant director at an experimental station. Mr. Greenwalt is a member of the American Academy of Arts and Sciences, the National Academy of Sciences, and the American Philosophical Society. He is on the National Geographic Society's Board of Trustees and also that of the Carnegie Institution of Washington. He holds many honorary degrees in science, engineering, and law. Two of Mr. Greenwalt's publications are *The Uncommon Man* and *Hummingbirds*.

MARTIN APPOINTED FOR INTERNAL AUDIT PROGRAM

Douglas R. Martin has been appointed by the Secretary to carry out an internal audit program under his direction. The program will support Smithsonian administration in its continuing efforts to assure the Institution's sound financial management improvement in all of its operations.

Through on-site reviews of organization units, Mr. Martin will appraise how they obtain, use, and control funds allotted to them. He will make recommendations for possible improvements in their accounting, financial, and allied activities.

SMITHSONIAN ADVISORY COUNCIL TO BE ESTABLISHED

The Smithsonian is planning to establish an Advisory Council to review and guide the Institution's research and educational programs in the sciences, humanities and fine arts. Such outside advice and review of programs is expected to provide greater continuity and deeper understanding of the Institution's programs. In addition, the growing awareness of the Smithsonian's direction and institutional character may serve to win the widest possible endorsement of programs and requests for support.

It is hoped that the Council will meet once a year. It is anticipated there will be 12 Counsellors appointed by the Board of Regents for 1966, chosen for accomplishment in science, the arts, and humanities, and for broad understanding of the contemporary position of knowledge. The members will be drawn principally from the learned professions. They will serve without compensation for terms of three years. It is planned that the Council's membership will reflect the following concerns of the Smithsonian: Anthropology and Linguistics, the Arts, Astrophysics and History, Museums, Oceanography, Science and Technology, and Systematic Biology.

ASSOCIATES' CHILDREN SEE MOVIE

On Saturday, February 28, a film was shown in the Auditorium of MNH for the children of the Society of Associates. The subject was Mammals, more specifically, the Natural History Museum's whale. On March 26 the children of the Associates again will be shown a film on aeronautics.



Betsy Knight welcoming the children of the Associates to the movie.

PUBLICATIONS OF SMITHSONIAN INTEREST

A Pictorial Treasury of the Smithsonian Institution will be published in May by Chilton Books, authored by Robert B. Widder, Office of Exhibits, MNH and MHT. The book is arranged in the manner in which the Institution grew. Mr. Widder has covered all of the Institution's Collections. The volume is illustrated with 639 black and white and 51 color photographs.

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Webster P. True, once director of the Editorial and Publications Division and now retired, has edited a new volume *Smithsonian Treasury of 20th Century Science*. This is the record of discoveries and developments that have revolutionized science since the turn of the century, collected and edited from the reports of the Smithsonian Institution. It is a unique scientific collection for the layman, illustrated with 100 photographs, drawings, and diagrams. It is published by Simon & Schuster, New York, in cooperation with the Smithsonian.

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The University of Michigan Press has recently published a new book by Waldo Schmitt, Honorary Research Associate, Department of Invertebrate Zoology. The 206-page book, *Crustaceans*, describes the vast variety of animals ranging from sand fleas to lobsters which fall into this group. Dr. Schmitt points out that South Sea robber crabs climb trees to get coconuts, while barnacles seldom go anywhere. Crustaceans carry disease, attack ship hulls, wharves, even submarine cables, and can wipe out agricultural crops. But remove them and most other aquatic creatures will perish, for crustaceans are the main food animals of the waters.

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The Institution's annual report, *The Smithsonian Year 1965*, was printed by GPO and is available through E. & P.—349 pages and 87 illustrations. In this one volume are incorporated reports from all branches of the Smithsonian. Reprints of each of the agency reports will be available. But this year the General Appendix has been removed. The objectives of the General Appendix, which consisted of a wide variety of scientific articles, will be met now by an annual volume in the nature of a Smithsonian yearbook, the first of which will appear in the spring of 1966. It will contain the addresses delivered at the scholarly sessions of the Smithsonian Bicentennial Celebration held in September 1965.

NEW CHIEF FOR SUPPLY DIV.

Fred G. Barwick has been appointed by the Secretary as Chief of the Supply Division. Mr. Barwick comes to the Smithsonian from the position of Supervisory Contract Specialist, Contract Division, Bureau of Ships, Department of the Navy, in which he served since 1962.

EDUCATIONAL TELEVISION CITES SI EMPLOYEE

Paul H. Oehser, director of the Editorial and Publications Division, was among those who recently received special citations from the Greater Washington Educational Television Association, Inc., for "distinguished service to the Association and for valuable contributions to the advancement of educational television in the Greater Washington area." The Association owns and operates WETA/Channel 26, which, according to John F. White, president of the National Educational Television Network, is now the most important educational television station in the entire country. Mr. Oehser represented the Smithsonian on the Board of Directors of GWETA for about ten years.



S. Dillon Ripley, Smithsonian Secretary, signing for Exclusive Recognition for a section of the employees of the National Zoological Park as members of Lodge 2463 American Federation of Government Employees. From left to right front row, William Rose, Vice President, S. Dillon Ripley, George Martin, Jr., Vice President; standing, left to right, Thomas Cook, Vice President, Albert Robinson, President, and Richard Farrar, Secretary-Treasurer.

FIELD TRIP TO THE BAHAMAS FOR FLORA AND FAUNA

David J. Kinsman, of Princeton's Department of Geology, Meredith L. Jones, Chairman of the Department of Invertebrate Zoology, Oscar L. Cartwright, curator-in-charge, Division of Coleoptera, and E. Yale Dawson, curator, Division of Cryptogams, are accompanying H. J. Bowen, President of Industrial Model Supplies, Inc., on a nearly one-month trip to Andros Island, located 120 miles southeast of Miami, Florida, in the Bahamas.

The team will carry out a general biological and geological reconnaissance of the area and collect flora and fauna from algae to cacti and corals to reptiles. The team has chartered a 55-foot vessel, "Summer Song," out of Fort Lauderdale, Florida, for use in marine collections. Shore parties also will make terrestrial and fresh-water field trips to sample areas around the island.

Dr. Jones said that "problems suited for research by graduate students also will be noted for later work." He mentioned that Mr. Bowen has expressed an interest in sponsoring graduate studies on Andros Island.

WINTER FINALE FOR MUSICAL CONCERT SERIES

The Smithsonian held its winter musical series finale on February 27 with a concert by the Collegium Musicum of the University of Illinois.

This distinguished group, directed by George Hunter, gave a concert of early music of the 13th through the 16th centuries in the auditorium of MHT. Performers included Marjorie Olson, Uni Thomas, James Bailey, Robert Smith, and Mr. Hunter, singing and playing the recorder, lute, krummhorn, rebec, vielle, viola da gamba, and percussion. Featured was music of the Burgundian court by Guillaume Dufay and Giles Binchois, as well as motet, "Ave Regina Coelorum" by Dufay. Also on the program were compositions by Josquin des Pres, Guillaume de Machaut, Heinrich Issac, Ludwig Senfl, and others. They ranged from solemn liturgical music to lively court dances.

Mr. Hunter, who is among the country's most outstanding performers and teachers of early music, performed as gambist, using the Barak-Norman Bass Gamba of 1718 from the Smithsonian collection.

CAVALCADE OF AMERICAN COMICS

A historic collection of original drawings and Sunday newspaper color pages, known as the Cavalcade of American Comics, will be exhibited at the Smithsonian's MHT, May 2 through July 6. The show will be the first of its kind ever held at the Smithsonian. It will trace the evolution of this type of American art from 1896 to the present day and will be loaned by the Newspaper Comics Council with the assistance of two council members, The Washington Star and The Washington Post.

Beginning with characters such as The Yellow Kid, Buster Brown, and the Katzenjammer Kids, the show chronologically will depict most of the cartoon favorites born in the past 70 years. In addition to 164 full Sunday color pages, all major syndicated cartoonists will be represented by black-and-white originals of their work. These will be divided into three categories—humor strips, story strips, and panel cartoons.

There will be more than 30 large original head drawings of popular characters. Another section illustrates how cartoonists have used their mass appeal in the interest of worthy government, charitable, and public service enterprises.

How the comic strip is created, in steps from the drawing board to the printed page, will be depicted. On each of the nine Saturdays throughout the exhibition dates it is planned to have a prominent cartoonist appear at the show. He will sketch his characters, talk about his work, and answer questions from the audience. The Saturday schedule is intended to give more school children an opportunity to attend.

With a following of more than 100 million readers, comics have had a far-reaching effect on American folkways. It is intended that this exhibit will not only entertain but also will show some of the impact of comics as a medium of communication and education and their effect on the daily habits of people.

WELL-KNOWN SI EMPLOYEE DIES

With profound regret the TORCH must report that Frank H. H. Roberts, Jr., who retired in 1964 as director of the Smithsonian's Bureau of American Ethnology, died on February 24 after a heart attack at Sibley Memorial Hospital.

With a career in three different fields Dr. Roberts was known by his colleagues as "dean of the business." He was a foremost authority on early man in the New World. He was also distinguished in the field of Indian cultures of the American Southwest. And he devoted himself for years to the program of the River Basin Surveys, both administratively and to secure funds and support from other agencies.

In conferring an honorary degree in 1959 on Dr. Roberts, the University of Colorado cited his study spanning four decades "as having been exceptional in range, vast in riches, bold and adventuresome as befits that exciting discipline."

He was former vice president of the American Anthropological Association, and former president of the Society for American Anthropology and of the Anthropological Society of Washington. He also was a former president of the Washington Academy of Sciences. He had authored more than 250 works, including *The Village of the Great Kivas* which has been used as a textbook.

MUSEUM CHANGES TO SUMMER TIME SCHEDULES

From April 1 through August 31 four museums of the Smithsonian will be open every day from nine in the morning until ten at night—MNH, MHT, A & I Bldg., and the Air and Space Building. Cafeteria hours in MHT Bldg. run from 9 a.m. until 8:30 p.m., seven days a week, and the snack-counter opens from 9 a.m. to 9:30 p.m.

To announce the summer hours of the museums, the following opening ceremonies will be held on April 1:

- 2:30 p.m. Third Infantry (Old Guard) Fire and Drum Corps. On the Mall.
- 3:15 p.m. U. S. Air Force Bagpipe Band. On the Mall.
- 4:00 p.m. U. S. Marine Drum and Bugle Corps. On the Mall.
- 7:00-8:00 p.m. U. S. Coast Guard Band. MHT, Flag Hall, Second Floor.
- 8:00-9:00 p.m. U. S. Army Band. A & I Bldg., The Rotunda.
- 8:30-9:30 p.m. U. S. Navy Band. MNH, The Rotunda, First Floor.
- 9:00-10:00 p.m. U. S. Marine Band. MHT, Flag Hall, Second Floor.

EMPLOYEE WELFARE AND RECREATION ASSOC. DONATES GIFTS

The District of Columbia Recreation Department has written the Smithsonian Employee Welfare and Recreation Association a note of gratitude for its recent donations to them of assorted hats, caps, pants, etc. The Division of Neighborhood Centers accepted the donations and distributed them to the needy throughout the city.

FOCUS: The National Zoological Park

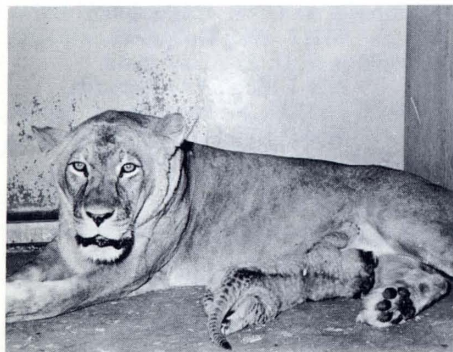
The National Zoological Park had its origin in a little group of animals brought to Washington and kept in small cages at the rear of the Smithsonian Institution. At that time the Institution was trying to establish a collection of mounted animals representing the fauna of North America and the live animals served as models for the taxidermists.

However, the Washington public became increasingly interested in the Smithsonian collection, and in 1889 Secretary Samuel Pierpont Langley, the Institution's third Secretary, founded a separate department of living animals of the National Museum.

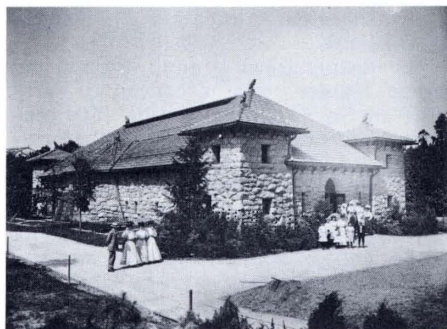


"Ham," the chimpanzee, who, in 1961, at the age of six months, was shot in a rocket into space.

William T. Hornaday was appointed curator to 225 living specimens. On April 30, 1890, Congress passed an act which placed the National Zoological Park under the direction of the Regents of the Smithsonian and ordered them to transfer to it any living animals in their charge, to exchange specimens, and to administer the Park "for the advancement of science and the instruction and recreation of the people."



Princess, the lioness, is shown with her latest cub, which she presented on Feb. 7. Princess and Caesar, the father, both came to the Zoo in 1953 at two years of age. In 1957 Princess gave birth to her first litter of three cubs. Since then she has had altogether 24 cubs.



Monkey house viewed from near lion house, National Zoological Park, early 1900's.

With the funds at hand (\$100,000), it was necessary to limit activities to a small section of Rock Creek Park with open fields and grazing land that had been previously cleared. At Secretary Langley's request, among the animals first shown in the Park was a sizable herd of bison which served as a reserve against possible extinction at a time when this species was seriously threatened.

Dr. William M. Mann recorded in his book *Wild Animals In and Out of the Zoo* that during this same general period the Adams Forepaugh Shows, a traveling circus, presented two elephants to the Government. They marched out to the Park "followed by all the small boys in Washington. . . . The elephants were chained to a tree, and the Zoo was a fact." A wagon from the Humane Society was borrowed to bring out all the animals that had been kept at the Smithsonian.

The first lion was presented in a buckboard, having been raised from a cub with a family cat. The first tiger was given to the U. S. Government when a circus thought him so badly suffering from mange they could not use him. Treatments at the Zoo of sulphur and sweet oil cured the Zoo's first tiger and he lived 17 years more.



Rhode Island rooster, "Roger," given to the Zoo by Sen. Claiborne Pell.

The first bird was a sulphur-crested cockatoo given to the old Smithsonian collection by a family who had owned the bird for five years.



Dr. Theodore H. Reed, Director, National Zoological Park.

Today, through gifts, exchanges, and purchases, more than 3000 individual animals inhabit the National Zoo, many of them rare species not to be found elsewhere in the country. More than 3,000,000 persons visit the Zoo annually to receive first-hand information in natural history through the observation of living mammals, birds, and reptiles. In 1960 a project for the renovation and rehabilitation of the Zoo was approved by Congress. This renovation program, now far advanced, is designed to make the National Zoological Park one of the most modern zoological gardens in the world. The new bird house and the outdoor aviary represent the first constructions under the program; they have been pictured in previous issues of the TORCH.

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Mohini Rewa with her tiger cub, born on February 5. Mohini is the famous white tiger, but the baby has its orange stripes.