

A hypothetical herbivore from a high-gravity planet is one of a number of such speculative creatures depicted in the National Air and Space Museum's new exhibit 'Life in the Universe' located in the Arts and Industries Building.

THE SMITHSONIAN TORCH

Smithsonian Institution, Washington, D.C.

October 1974

Women's Council Members Elected

Members elected September 4 to the Smithsonian Women's Council for the 1974-1975 term are:

Bernice Abram, Office of Personnel Administration; Sheila Alexander, National Museum of History and Technology; Francine C. Berkowitz, Office of International and Environmental Programs; Diane Della Loggia, Center for the Study of Man; Catherine S. Harris, Office of Academic Studies; Edith Martin, Renwick Gallery; Edith Mayo, NMHT; James B. McCracken, Jr., OPA; Ellen M. Myette, Renwick; Mary J. Pierce and Mary Quinn, SI Libraries; George S. Robinson, General Counsel; Joanna Scherer, CSM; Dianne Walker, Photographic Services; Vernetta Williams, National Museum of Natural History.

Alternates are Jeanne B. George, Smithsonian Associates; Judith S. King, National Zoological Park; Jo Moore, CSM; Monte Smith, Conservation Analytical Laboratory, and Karen Ullrich, Accounting Division.

(See page 2 for story and photos about Women's Week)

SI Exceeds Blood Quota

The first visit of a Bloodmobile to the Smithsonian, on August 19, has been pronounced a success, and the American Red Cross has asked the Institution to consider having a second Bloodmobile visit next spring.

The Red Cross set a quota of 75 pints of blood for the Bloodmobile, and 87 were donated. The Smithsonian met its quota for the last fiscal year by 101 per cent.

"Congratulations and many thanks to employees who participated," said Brenda Howell, of the Office of Personnel staff, who was in charge of arrangements. "Our special thanks goes to Mrs. Joseph Hirshhorn who was visiting the Hirshhorn Museum (where the Bloodmobile was located) on August 19. She took time out from her busy schedule to donate blood."

"This generous response will assure that all Smithsonian employees and members of their families, including those whose present health precludes donations, will be able to obtain blood through the American Red Cross program when they need it."

Archives Plans First Exhibition

"From Reliable Sources," the first exhibition in the new Gallery of the Archives of American Art, will open November 8 on the first floor of the National Portrait Gallery.

The exhibition commemorates the 20th anniversary of the founding of the Archives of American Art and the fifth year of the Archives' affiliation with the Smithsonian. It is the first in a series of exhibitions to be selected from the vast collections of the Archives and includes letters, documents, sketchbooks, and photographs of 29 artists of the 18th, 19th and 20th centuries. The exhibition will remain on view until the fall of 1975.

Upward Mobility Jobs Open at MHT

There are three Exhibits Aid positions (GS-3) at the National Museum of History and Technology to be filled under the Smithsonian's Upward Mobility Program with potential advancement to GS-7 exhibits specialist.

The incumbents will be trained to check condition of exhibits and provide the necessary maintenance. Candidates must be reliable, willing to learn and have interest in acquiring such skills as carpentry, joinery, painting, masonry and papering, and also able to perform moderate to heavy physical tasks. One year of responsible experience or one year of appropriate education is required.

For further information regarding these positions, please call the Office of Personnel Administration, extension 6545.

Open Season Set On Health Programs

An open season for the employees' health benefits program will be in effect from November 15 through 30.

At that time employees who are not enrolled in a program may enroll, and those who wish to change from one plan to another or from one option to another may do so.

Shortly before the open enrollment season, an announcement will be issued to employees giving full instructions on how to enroll or make a change.

Exhibits Feature Fashions, Life in Universe, Ice Age

Three major exhibitions which have opened at the Smithsonian this fall take museum visitors on a stroll through American fashions of the past 200 years; on a trip through time to the beginnings of mankind, and on an awesome voyage to the edge of the universe.

The new exhibitions are:

- "Ice Age Mammals and the Emergence of Man," which opened September 13 as a permanent exhibit in the National Museum of Natural History.

- "Suiting Everyone," which opened September 21 at the National Museum of History and Technology where it will be on view through 1976.

- "Life in the Universe" which opened September 23 in the Arts and Industries Building and which will later be moved to the new National Air and Space Museum.

"Ice Age Mammals and the Emergence of Man" has been described as the first of a "new wave" of exhibits at MNH. It traces the impact that the Ice Age's glacial onslaughts had on the face of the earth and on evolution of life.

On view in the hall are huge beasts that once dominated the earth, some of them standing 12 feet high: the giant plated armadillo; the woolly mammoth; the diprotodon, a marsupial 20 times larger than the kangaroo; and the giant sloth, an animal that browsed in trees for leaves and twigs, supported by the biggest pair of feet of any land animal that ever lived—three feet long.

Their remains have been reconstructed by Smithsonian scientists and exhibits experts after being uncovered from the mire of Alaska (naturally freeze-dried) and from other sites such as the famous Rancho La Brea tar pits in Los Angeles.

A small audiovisual theater in the exhibit hall explains glaciation and how it has transformed the face of the continents by scouring large areas of the earth. Rocks that have been rounded and grooved by glaciation are on view in the hall.

A cast of a 24,800-year-old mammoth tusk found in Czechoslovakia with man's engraving on it, is on display at the entrance to the exhibit hall. The object symbolizes man's emergence in the Ice Age as a dominant influence on other animals and his environment.

The final section of the exhibit shows what the archeological record has revealed of the physical development of man during the Ice Age. Accompanying the skeletal material and graphics that show this development are reconstructions of archeological sites in Africa and Europe where man has lived at successive times before and during the Ice Age.

At the formal opening of the hall, Dr. Porter Kier, MNH Director, gave special recognition to the dozens of scientists and technicians who worked on the exhibit (see accompanying story).

'Suiting Everyone'

"Suiting Everyone" depicts 200 years of evolution and revolution in the design, production and marketing of American clothing.

The exhibit is the result of two years of research by curators of costume, textiles

and military history at the National Museum of History and Technology. An Apparel Advisory Group of experts from across the country assisted curators in the selection of contemporary fashions to be shown. A nationwide appeal for period clothing drew responses from 4,500 Americans.

The display is divided into four sections. The first, "Clothing for Somebody," contrasts the elegant fashions of the 18th-century wealthy Americans with the simple, utilitarian homespuns worn by the masses of that era.

The second and third sections, "Clothing for Anybody" (1800-1860) and "Clothing for Everybody" (1860-1920), trace the development of the "ready-made" clothing industry made possible by the Industrial Revolution.

The last section, "Something for Everybody," presents the variety of clothing, textiles and styles available to Americans over the last 50 years.

In addition to the clothing display, the early tools of textile manufacture and the "ready-made" dress trade are shown. Early machines as well as later, more sophisticated machines which speeded up production are also displayed.

Supplementing the exhibition is a catalog written by Claudia Kidwell, Curator of Costume, and Margaret Christman, researcher. Mrs. Kidwell was coordinator of the exhibit, assisted by Donald Kloster, Assistant Curator of Military History, and Grace Cooper, Curator of Textiles.

A traveling version of the exhibit will go on tour next year.

'Life in the Universe'

"Life in the Universe," a new exhibit of the National Air and Space Museum in the A&I Building, has been described by Michael Collins, Museum Director, as "a probe into the unknown" which "speculates about the types of extraterrestrial life which might reasonably exist."

The vast scope of the exhibit has been condensed into four separate areas: the Universe, Life on Earth, the Solar System, and Communication With Extraterrestrial Civilizations.

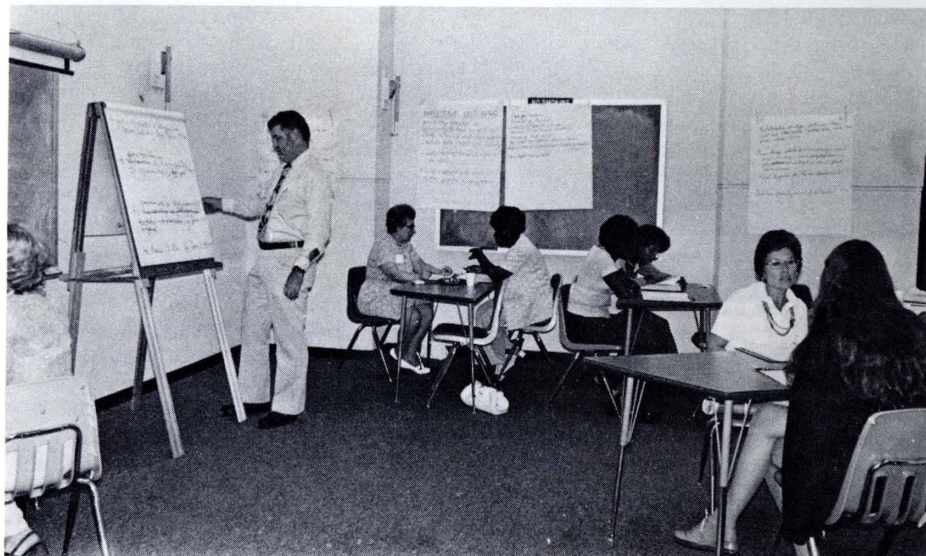
The visitor enters the exhibit into a "universe" where floor-to-ceiling photographs and graphics under black light show the vastness of space and its trillions of stars. A film, "Powers of Ten" by Charles Eames, relates in a series of quantum jumps the vastness of the Universe to the minute size of the atom.

Life on Earth deals with the current knowledge of the origins and nature of life on this planet, and includes a film featuring the "French Chef," Julia Child of television fame, making the "soup" of primordial life.

The third section of the exhibit concerns (continued on page 3)



Opening night visitors view a parade of recent fashions in the 'Suiting Everyone' exhibit at the National Museum of History and Technology.



WOMEN'S WEEK ACTIVITIES—Several of the participants in the opening program of the second annual Women's Week at the Smithsonian on August 26 were (in right photo above, from left) Archie D. Grimmett, Director of the Office of Equal Opportunity; Wilma Scott Heide, guest speaker who was twice elected president of the National Organization for Women; Richard L. Ault, Director of Support Activities, and Julian T. Euell, Assistant Secretary for Public Service. In photo above left LaVerne Love, Women's Program Coordinator is seen with Ms. Heide. Among the varied activities of Women's Week was a "Future Planning Workshop" held during the first two days. Pictured is Vincent L. MacDonnell, Director of Training, during a workshop discussion (see story below). The purpose of the workshops was to provide an opportunity to clarify life and career goals and to enable participants to exercise responsibility over their plans.

Workshop, Panels Highlight Women's Week Activities

During the SI Women's Week August 26-30—the Office of Personnel Administration, through its Employee Development and Training Office, offered a workshop and seminars on each day of the week-long program.

On August 26 and 27 a 16-hour, in-depth workshop on career planning was offered to 20 SI women under the direction of Vince MacDonnell, Director of Training; Ms. Brenda Howell of the Personnel staff, and Ms. Mary Talley who was here on loan from the Department of Health, Education and Welfare. The participants are planning a follow-up session this month to check on the progress of their career plans.

On August 28 a training opportunities seminar was held in the Baird Auditorium with presentations on training and educational opportunities by the SI Training Office and representatives of the University of Maryland Open University as well as a member of the Southeastern University faculty.

A lively exchange of ideas and information took place on the 29th in a seminar which presented the role, functions and services of the Office of Personnel Administration. A panel from the Personnel Office consisting of Ronald Becker, Assistant Director of Personnel for Manpower Planning; Barbara Moelter, Chief, Recruitment and Placement; Sara Hayes, Personnel Management Specialist; Dorothy Lewis, Employee Relations Of-

ficer, and Mr. MacDonnell answered questions from the audience regarding Personnel policies and practices.

On August 30 the Training Office conducted a seminar for supervisors. The seminar was a follow-on for those who had attended the course "Supervisor's Role in EEO." The supervisors heard Mr. MacDonnell cover the techniques of career counseling and supervisors' responsibilities. Lou Hernandez, an Upward Mobility Specialist from the National Institutes of Health Training Office, discussed some of the problems faced by supervisors in trying to establish upward mobility programs for their employees and some practical suggestions for solving those problems. The last speaker was Lloyd Stimson, Training Officer, U.S. Department of Agriculture, who gave the supervisors a more in-depth explanation of the Government Employees Training Act and told them how they can use training to improve employee performance; get a job done better, or prepare their employees for different or bigger jobs. The seminar lasted three hours and was enthusiastically received by those present. Similar seminars are planned for the future.

Station Manager At STRI Dies

Ernest Jay Hayden, 45, station manager at Barro Colorado Island died September 10 at Gorgas Hospital after a long illness, the Smithsonian Tropical Research Institute has reported.

Mr. Hayden joined STRI in 1967. He was responsible for the management of the research facility and the protection of wildlife in the biological preserve on Barro Colorado Island. Through the years he played host to thousands of students and scientists working on the island.

Mr. Hayden was born in Augusta, Me., and joined STRI after more than 20 years service in the U.S. Army.

Schumacher Co., SI Sign Contract

The Smithsonian Institution and F. Schumacher and Company have signed an agreement that will permit Schumacher to feature designs from the Smithsonian collections in a new line of wall coverings and fabrics. C. Richard Brose, President of Schumacher, and T. Ames Wheeler, Smithsonian Treasurer, have announced.

The contract with Schumacher provides for the manufacture and marketing of patterns inspired by the designs of original artifacts in the Smithsonian's collections. Each pattern will be accompanied by written material designed to inform the public about the history and significance of the related original artifact.

Statement by Dr. Porter Kier

Credit to those who worked on the new exhibit "Ice Age Mammals and the Emergence of Man" was given by Dr. Porter Kier, Director of the National Museum of Natural History, in the following statement he read at the formal opening of the hall.

This hall is the result of the labors of many within and outside the NMNH. In particular, the following have played a vital role in the creation of this hall.

Clayton E. Ray and C. Lewis Gazin are responsible for the selection of the magnificent specimens of Pleistocene mammals. Dr. Ray supervised their preparation, and created the original plan for this hall. Although that plan has been changed, much of what is in this hall is the product of his efforts. The work of assembly of these specimens was carried out in the laboratory of vertebrate paleontology by Franklin Pearce; John Ott; Leroy Glenn, Jr.; Sigmund Sweda; Gladwyn Sullivan; Albert Myrick, Jr., and G. Donald Guadagni. Elaine Anderson assisted in writing scripts and the acquisition of specimens.

The superb murals were painted by Jay Matternes. The chief consultants for the Hagerman mural were Claude Hibbard of the University of Michigan, E.B. Leopold and Harold Malde of the U.S. Geological Survey and John White of Idaho State University. Expertise for the Alaskan mural was provided by R.D. Guthrie of the University of Alaska; Björn Kurtén of the Museum of Zoology at Helsingfors, Finland; Troy Péwé at Arizona State University; and William Turnbull of the Field Museum of Natural History at Chicago.

The following paleontologists at the American Museum of Natural History contributed specimens and expertise: Childs Frick, Harold E. Anthony, Malcolm C. McKenna, Bobb Schaefer, Richard H. Tedford, Morris F. Skinner, Beryl Taylor, and Ted Galusha. Specimens also came from the South Australian Museum; Deya Archeological Museum, Spain; Mineralogisch-Geologisch Instituut, Rijksuniversiteit Utrecht; Carnegie Museum, Pittsburgh; and Naturhistorisches Museum, Switzerland. Mr. Jose Fenykovi provided funds for the purchase of the dwarf mammoth skeleton. John Guilday, Walter Auffenberg, and A. Gordon Edmund were consulted on various Pleistocene specimens.

Robert Emry of the NMNH staff and Frank Whitmore of the USGS provided scientific guidance in vertebrate paleontology during the planning and production phases of the exhibit. Thomas Simkin advised on the geology displayed in the hall. William Fitzhugh is responsible for the anthropological aspects of the exhibit. I particularly thank John Yellen and Alison Brooks for their valuable assistance in the Neanderthal burial scene including a visit to the site. They also obtained the tusk displayed at the entrance to the hall.

The Neanderthal figures were sculptured by Vernon Rickman under the scientific supervision of Lawrence Angel, John Yel-

len, and Alison Brooks. The reconstruction in the Paleolithic section of this hall required diversity of knowledge and skills in molding and casting. Stone tools, bones and figures were cast and the reproduction of four living floors was accomplished by the following model makers in the Office of Exhibits Central under the supervision of John Babyak: William Donnelly, Walter Sorrell, Walter Hock, Michael Friello, Bruce Hough, Reginald Sayre, John Schulz, Sylvan Sean, Susan Wallace, and Sally Schaeffer.

The depictions of tundra and boreal forests that you will see behind the North American mammals were painted by Wilma Riley with scientific guidance from Stanwyn Shetler and Leo Hickey. Karen Loveland, John Hiller and Thomas Simkin are responsible for the slide show.

The fabricating of the hall itself was under the supervision of Karl Jurack and included the efforts of the following craftsmen: Wilba Seymore, Thomas Haney, Derek Fiedler, Raymond Jones, John Ondish, Alfred Pearson, and Arthur Johnson.

The labels, graphics, screen art, and photo mounting are the work of the Graphic Production staff, under the supervision of Carl Alexander, consisting of the following artists: Algie Porter, Toussaint Wallace, Thomas Thill, Patricia Powell, and Anita Demchick.

The cases and protective shields were made by Kenneth Clevinger.

The hall was designed by Alfred McAdams with assistance from Elizabeth Miles. Eugene Behlen was the programmer, and Heather Banks the writer.

The scientific planning of the hall resulted from the efforts of the exhibits committee including: Leo Hickey, Donald Duckworth, Thomas Simkin, William Fitzhugh, Thomas Bowman, Thomas Soderstrom, and George Zug. Drs. Hickey, Fitzhugh and Simkin were particularly heavily involved. Dr. Hickey as chairman of the committee deserves special commendation for his imaginative and energetic leadership.

The hall would have never been created without the genius of Harry Hart, Chief of Exhibits. His determination combined with his exhibiting and managerial skills drove the hall to completion on schedule. His sensitivity and understanding brought together in common cause the artists, craftsmen and scientists of this Museum.

Gem Hall in the Sky

A three-year-old was taken by her grandmother to visit the Smithsonian this summer. Several days later, her grandmother reported, she took the girl to a Fourth of July fireworks display. As one huge rocket burst into stars of assorted colors, the child exclaimed:

"Look, Grandma, just like the Hope Diamond!"



A reconstructed scene showing a Neanderthal burial ceremony is part of the exhibit "Ice Age Mammals and the Emergence of Man" which has been completed in a hall at the National Museum of Natural History.

Frank Pearce, MNH Expert In Fossil Preparation, Retires

Frank Pearce, chief of the vertebrate fossil preparation laboratory at NMNH, retired last month after 28 years at a profession in which he was regarded as peerless.

Annually he would accompany SI paleontologists such as Drs. C. Lewis Gazin and Clayton Ray into the field to find and dig intact from the ground fragile vertebrate fossils.

After his return to NMNH, he would perform the excruciating, slow, and difficult task of cleaning and readying the specimens for scientific study and exhibit.

At a retirement ceremony NMNH Director Porter Kier presented Pearce with a Certificate of Superior Performance, and a cash award. He also received as a memento from his colleagues, a mounted giant fossil shark tooth that he had found at Lee Creek, N.C. and prepared (handsome giant shark tooth specimens are prized by fossil collectors).

The vertebrate fossil preparation profession has been called one of the last medieval guilds. No specialized schooling can teach one how to do it. The backgrounds of the six men who work in the



Mr. Pearce at work.

NMNH lab are diverse: One man has dental technician and mortician training, another a college degree in mechanical arts, another in taxidermy, and still another sculpture and modeling experience. What they all share in common is a wealth of manual dexterity and imagination and almost superhuman patience.

"Patience is tremendously important," says Dr. Clayton Ray. "No one has found a magical way to make vertebrate fossils pop out of rock. You may have to live with a tiny skull for six months and be able to find satisfaction in clearing a square inch of bone a day. It may be the only specimen of a skull known and so it would be disastrous to hurry and botch the job."

Preparators like Pearce employ a variety of tools, ranging from the highly sophisticated to the simple, including ultrasonic vibration, acid baths, air hammers, sand blasting and hammer and chisel. For especially intractable specimens those tools often have to be used in combination.

One of Pearce's talents was an inventive (continued on page 4)

Dr. Miller Takes Post at NPG

Dr. Lillian B. Miller has been appointed Historian of American Culture and Editor of the Charles Willson Peale Papers at the National Portrait Gallery.

Dr. Miller assumed her new position September 3. She will continue her series of special lectures in American studies at George Washington University.

Prior to her appointment as the Gallery's historian in 1971, she was Associate Professor of History at the University of Wisconsin in Milwaukee. She has produced an extensive list of published material including *Patrons and Patriotism: The Encouragement of the Fine Arts in the United States 1790-1860*, published by the University of Chicago Press, and four NPG catalogs.

In her work on the Peale papers, Dr. Miller will direct the cataloging, recording, microfilming, and publishing of the extensive documents currently at the American Philosophical Society in Philadelphia. The project is funded by a two-year grant from the National Endowment for the Humanities.

English Course Offered at SI

The Office of Personnel is scheduling employees for an eight-part English refresher course.

The recommended reading level for entry into the course is 10th grade. Students will be scheduled to study one hour a day, Tuesday through Friday. The course is on film and will be presented with an Autotutor. Therefore, students will be studying independently and can progress at their own rates until they meet the learning objectives. An instructor will be available for assistance. Certificates will be given on completion of the course.

To apply or to obtain more information, call Brenda Howell on extension 5226. Titles of each part and recommended study times are:

I, Improving Your Punctuation, 6-12 hours; II, Improving Your Writing, 6-12 hours; III, Sentences, Nouns and Pronouns, 6-8 hours; IV, Verb Usage, 10-12 hours; V, Modifiers, 8-10 hours; VI, Connectives and Interjections, 8-10 hours; VII, Sentence Completers, Phrases and Types, 8-10 hours; VIII, Sentence Clauses, Fragments and Run-ons, 6-8 hours.

SMITHSONIAN TORCH October 1974

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AWARD FROM DESIGNERS—Secretary Ripley was presented the Thomas Jefferson Award in recognition of his innovative and energetic contributions to the revitalization and preservation of America's cultural heritage, at a ceremony September 11 in the National Museum of History and Technology. Shown with Mr. Ripley are the representatives of the organizations that presented the award: Roslyn W. Mallin, Vice President of the National Society of Interior Designers, and Norman De Haan, President of the American Institute of Interior Designers. The ceremony was held in connection with the Second Federal Design Assembly in Washington.

Judy White Joins NZP As Education Chief

Judy White, formerly at the Discovery Room in the National Museum of Natural History, has joined the staff of the National Zoological Park as chief of the office of education and information.

Prior to her SI employment, she was a teacher and worked for the Children's Museum in Boston. Her duties at the Zoo will include development of educational and information programs as well as liaison with the Friends of the National Zoo school services.

SI Service Pins Have New Look

The Smithsonian has given its career service emblems a new look which features the Smithsonian seal and is presenting a new "25 Year" emblem as of July 1.

Any employee accumulating 25 years of service on or after that date will be eligible for this new emblem.

The new emblems do not show the number of years of service. Years of service are indicated as shown below:

10 year service — 1 Sapphire (Blue)
15 year service — 1 Ruby (Red)
20 year service — 1 Emerald (Green)
25 year service — 3 Sapphires (Blue)
30 year service — 1 Diamond and 2 Sapphires (Blue)
35 year service — 1 Diamond and 2 Emeralds (Green)
45 year service — 2 Diamonds and 1 Sapphire (Blue)
50 year service — 2 Diamonds and 1 Ruby (Red)

The Office of Personnel Administration is currently distributing emblems to heads of bureaus, offices, and divisions for presentation to eligible employees. This presentation will cover all employees eligible to receive emblems through August 31, 1974.

27 Employees Retire from SI

Twenty-seven employees have recently retired from the Smithsonian.

From the National Museum of Natural History: Franklin Pearce (see story in this issue), Alfred McAdams, Lyman B. Smith, Joseph J. Biggs, Walter J. Byas, Mary Grace Chaconas, Elsie M. Froeschner, Paul K. Knierim, Clara G. McKoy.

From the Supply Division, Fred Barwick and Allen S. Smallwood.

From the Office of Protection Services, Casper W. Bohnenstiel, John G. Gallagher, Eddie L. Rainey, Joseph Colby, Frank Sangiovanni, William Nordvedt.

From the National Museum of History and Technology, Herbert Brumback, Everett Parker, James J. Jones, Jr.

From other SI components, Doctor E. McKnight and Roy S. Burgess, National Zoological Park; Jack Scott, Office of Printing and Photographic Services; Elsie Johnson, Freer; Lindsay Ross and Herbert Fischer, Office of Plant Services; Ortrud S. Sachse, SI Libraries.

Islamic Archives Open to Students

The Smithsonian Institution's National Anthropological Archives has opened to scholars and students its Islamic Archives, a major collection on Islamic art and culture transferred to the Institution's custody by the committee for Islamic Culture.

The Archives was assembled over a 40-year period by the late Dr. Myron Bement Smith, archeologist, architect, architectural historian and founder and chairman of the Committee for Islamic Culture.

The Islamic Archives is composed of 87,000 photo documents, drawings and field notes from Dr. Smith's studies of Iranian architectural monuments, maps, commentaries by scholars on Islamic studies, and extensive correspondence between Professor Smith and most of the recognized scholars in his field. All of this material illustrates and documents the contemporary and historical culture and civilization of the Near and Middle East and Northern Africa during the Islamic period.

Support Directors Attend Seminar

Directors and assistant directors of units reporting to the Director of Support Activities attended a seminar on "Management by Objectives" held September 26 and 27 at the National 4H Center in Chevy Chase.

The seminar was conducted by Professor Dale McConkey of the University of Wisconsin's Business and Management School. He is recognized generally as one of the pioneers in the development of Management by Objectives as a system and is one of its most active practitioners.

The seminar provided the "kick-off" to the implementation of a management by objectives style of management within Support Activities. Its content was designed by Professor McConkey for the SI units.

Exhibits

(Continued from page 1)

the rest of the solar system and man's increasing understanding of it gained from space probes and the sophisticated instruments used by today's scientists.

The last section of the exhibit deals with the interdisciplinary studies of cosmographers, astronomers, astrophysicists, chemists, and biologists in a field of study involved with the problems of detection of, and communication with, other intelligent life in the Universe.

Melvin B. Zisfein, Deputy Director of NASM, says the exhibit "summarizes what is presently observable and deductible about the Universe, particularly about the chances for earthlings to detect and perhaps communicate with alien life."

The exhibit represents more than two years of research by Alexis Doster III, NASM curator, and designers John R. Clendening and Terezia M. Tackas. The graphics were drawn by Peter F. Copeland and Peter P. DeAnna.



OFFICIALS FROM TOGO VISIT ANACOSTIA—Distinguished visitors from Togo toured Anacostia Neighborhood Museum on August 28 with John R. Kinard, Director of the Museum, and Zora Martin, head of the educational department at ANM. Shown (from left) are Kokou Mathias Aithnard, Director of Culture and Scientific Research; William Adjoyi, Cultural Attache, Togo Embassy; Agbenowossi Kodjo Koffi, Minister of Youth, Sports, Culture and Scientific Research, and Mr. Kinard. The Togolese officials were interested in the role of the Smithsonian in the cultural life of the United States and Washington, particularly in seeing how the neighborhood museum works with young people displaying arts and crafts pertaining to the United States and Africa.



Eva Mirski, author of the adjacent article, is shown working with pupils at Tubman School in Washington. Others working in the Title I Summer Program besides Miss Mirski are Brian Jones, Helen Solterer, and Karen Duckett from the National Museum of Natural History, and Nancy Holland, Pam Snively, Bruce Craig and Laurie Cavey from the National Museum of History and Technology.

Students Bring Smithsonian To Washington Schools

by Eva Mirski

Not many high school students expect to find themselves back in elementary school during the summer months. However, this year, with help from the Smithsonian, we did just that.

Four of us from the Summer Info program in the Museum of Natural History's Office of Education joined four other students from the Museum of History and Technology's Division of Public Information and Education to work for five weeks in the District of Columbia Schools' Title I Program. When we started, we did not anticipate that these weeks would be filled with memorable experiences.

During the last few days of June each of us got acquainted with our colleagues. As the week progressed, we examined and studied, with the help of staff and docents, numerous "touch-its": objects and artifacts that may be handled by children. These were to be used in the Title I Program, which would bring small bits of the museums to children in summer school. The purpose of the project was not only to introduce small children to some of the wonders of the Smithsonian's collections, but also to encourage these students to improve their basic reading and math skills while learning from objects.

Each "museum aide", as we were called, was given a specific topic to develop, making use of touchable objects. In Natural History, the four topics selected were Indians, Africans, Animals, and Rocks and Minerals. Colonial Life, in several different aspects, was the main topic for the aides representing the Museum of History and Technology. Each of us selected from the small mountain of available materials the objects and artifacts best suited to our subjects. Docents talked with us about these, and we used books from the museum to complete our research.

After a week of preparation, in the back rooms of the Smithsonian, we were ready to face our first classes. Each morning, as we entered a new school, we would feel a bit of nervousness inside. However, as soon as we began our presentation, we relaxed and enjoyed every minute. The children ranged in age from five to eight or nine years old, and their enthusiasm for exploring, touching, feeling, trying on, smelling and lifting the touchable objects made our teaching quite easy. With a few questions to guide their attention, the children really taught themselves.

At the end of each class, the children were asked to use pencil and paper to express what they had learned. They were eager to draw pictures and write words about Indians and the way they prepared food, about animals' teeth and feet, about drums, thumb pianos, and the bright colored cloth of Africa, about the life of children who lived in the years of early American colonization, and even about all the

different kinds of shapes that crystals of minerals take. The works of art that were presented to us each day were fantastic, varying from red tipis to purple Bushmen. Such masterpieces!

As our sessions closed, we were always sorry to leave our new friends in these classes, but were looking forward to the following day, when another school would be visited. Back at the Smithsonian, for lunch, we would share our experiences with one another. Sometimes these were funny stories about what children had said; other times, we shared new skills for better teaching.

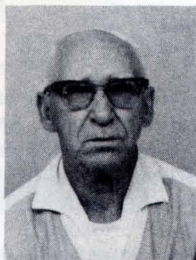
At the end of July, the Title I School Project ended. Those of us who had worked as museum aides felt that it had been an enjoyable and worthwhile experience. We hope that for the children in the D.C. Schools it was a special invitation to make the Smithsonian part of their year-by-year education.

Vitola Retires From STRI Staff

The Smithsonian Tropical Research Institute has announced the retirement of Francisco Vitola, Assistant Manager of the facilities at Barro Colorado Island.

"Sr. Vitola, better known as 'Chichi,' has been a loyal and dedicated employee of STRI for 40 years," said Dr. Ira Rubinoff, STRI Director. "Chichi began work at Barro Colorado Island as foreman in 1934, at the time when the field station at BCI was in its infancy. In those early days Chichi had a hand in every aspect of the island's physical development, and he has remained a vital participant in the many changes which BCI has undergone, in cooperating with fellow workers and supporting researchers and other visitors from all over the world. Chichi's dedication to the programs and welfare of BCI contributed to its growth into an important world-famous research station."

"Chichi is held in the highest esteem by all STRI personnel, all of whom will certainly miss him when he leaves the organization in which he played so vital a part."



Sr. Vitola

Goode Is Author Of Book on Sculpture

James M. Goode, curator of the Smithsonian Institution Building, is the author of *The Outdoor Sculpture of Washington, D.C.*, a lavishly illustrated historical guide to the profusion of art in stone and metal that graces the nation's capital and its surrounding area.

The 526-page volume was recently published by the Smithsonian Institution Press. Most of the photographs were taken by David Blume of the Smithsonian staff. The book was designed by Mrs. Elizabeth Sur of the SI Press.

Mr. Goode dedicated the book "to all Washingtonians committed to preserving the architectural and sculptural heritage of our nation's capital."

In a preface the author explained that he began work on the manuscript after a six-hour tour of portrait statues in downtown Washington which he conducted for some 30 members of the Smithsonian Associates. He said some of the Associates suggested that he expand his research into a historical guide to the outdoor sculpture.

"Because of the lack of published sources on this subject," he wrote, "over a dozen research assistants and I have devoted thousands of hours first in actual walking around the city to locate all types of outdoor sculpture and then in searching the records and files of many government and private institutions for the history of

each work."

Mr. Goode acknowledged the assistance of a number of Smithsonian colleagues including Secretary Ripley; Dr. Richard H. Howland; Dr. Harold Skramstad, Jr.; Donald E. Kloster; Philip K. Lundberg; Dr. Thomas Lawton; Lynford E. Kautz; Henry Steele; Miss Patricia Wilkinson; Dr. Joshua Taylor; William H. Truettner; Russell Burke; Michael Richman; Mrs. Mona L. Dearborn; Mrs. Genevieve A. Chisley; Mrs. Sara B. Hanan, and the late Douglas G. MacAgy.

In a foreward, Francis S. Grubar, chairman of the art department at George Washington University, said the appearance of such a handbook is both timely and welcome and fulfills a definite need, "particularly in an age which has seen so much of the past destroyed on the one hand, yet, paradoxically, which has also experienced a dramatic increase of interest in American art."

Support for the book was provided by the Barra Foundation. It is priced at \$15 cloth-bound and \$4.95 in paperback.

Pearce

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aptitude that made it possible for him to develop special equipment and techniques to get a job done. Among many such contributions were designing and putting together the laboratory's heavy-duty sand blasting system, and rediscovering and elaborating upon the long disused technique of wax impregnation for preservation of ancient ivory and other material that otherwise would be too delicate and unstable to salvage.

Pearce's career in collecting and preparation began when he was 20 years old and a student at Ft. Hays (Kansas) State College. George Sternberg, a noted commercial fossil hunter, whose services were used by Dr. Gazin and other SI scientists, had employed members of the Pearce family to excavate some of the rich fossil beds in the Ft. Hays area. When one of the Pearces was unable to go along for the 1939 season, Sternberg asked Frank to come instead and do the cooking.

Pearce took the job although he protested to Sternberg that he wasn't much of a cook. Actually, Dr. Ray says, Pearce is as outstandingly competent at cooking as he is at everything else. He remembers that in the field in Australia in 1970 he watched in amazement as Pearce, with a terrific dust storm blowing around him, cooked up a delicious bacon wrapped filet of emu.

The first summer with Sternberg, Pearce met Dr. Gazin, who was so impressed with Pearce's skill that in 1946, when Pearce was discharged from the Air Force after World War II service, he hired him on permanently at SI. In the years that followed the two men spent 18 summers in the field, most of them in the Rocky Mountain states.

Many of the specimens Pearce collected and sent back, carefully wrapped in plaster-soaked burlap, and then subsequently prepared, have been incorporated in NMNH exhibits. In the newly opened Ice Age Mammals and the Emergence of Man exhibit can be seen a sampling: the bones of the giant ground sloth that Pearce and Dr. Gazin excavated in El Hatillo, Panama, in 1950-51, mounted by John Ott under Pearce's supervision, and the skull of *Diprotodon Opatum*, a giant marsupial, that he and Dr. Ray, Dr. Robert Emry, and others collected at Lake Callabonna, South Australia in 1970.

In retirement Pearce hopes to get caught up on 25 years of work around the house. But as soon as that's done, Dr. Ray says he hopes to coax him back to do some contract work on additional specimens from the Australian collection.

Cherkezian Is TV Coordinator For SI Series

Nazaret Cherkezian has been appointed Telecommunications Coordinator for the Smithsonian Institution.

Mr. Cherkezian will be responsible for developing and managing the Smithsonian's growing activities in television, film and radio for external purposes. One of his immediate duties will be the direction of liaison between Smithsonian and the David Wolper Organization which is producing a series of television documentaries for CBS.

Prior to this appointment, Mr. Cherkezian was Director of Programming for the National Public Affairs Center for Television. Under his direction, three ongoing series, "Washington Straight Talk," "Washington Connection" and "Washington Week in Review," were produced for the public television network. He was also responsible for six major documentaries and special events, from Presidential news conferences to major speeches.

In his new position at the Smithsonian, Mr. Cherkezian, who will report to the Assistant Secretary for Public Service, will be in charge of Smithsonian telecommunications policy, planning and programming. Under his direction, a wide range of projects from use of commercial and public television to cable systems will be reviewed and developed.

From 1965 to 1972, Mr. Cherkezian was executive producer of National Education Television, where he headed the production team which produced news and public affairs programs and series for the NET network. Before that he was director of public information for NET.

He also worked as producer with WCBS-TV in New York City and as associate director and producer of the Office of Radio and Television at New York University.

Mr. Cherkezian received his undergraduate degree in Journalism from New York University and has completed all course work for an MBA in economic history. He was awarded the Ford Foundation Leadership Fellowship for a study of the role television plays in museums and historical societies.

Mr. Cherkezian is married and lives in McLean, Va. He has a daughter who is a senior at the University of Bridgeport and a son who is with ABC News in New York City.