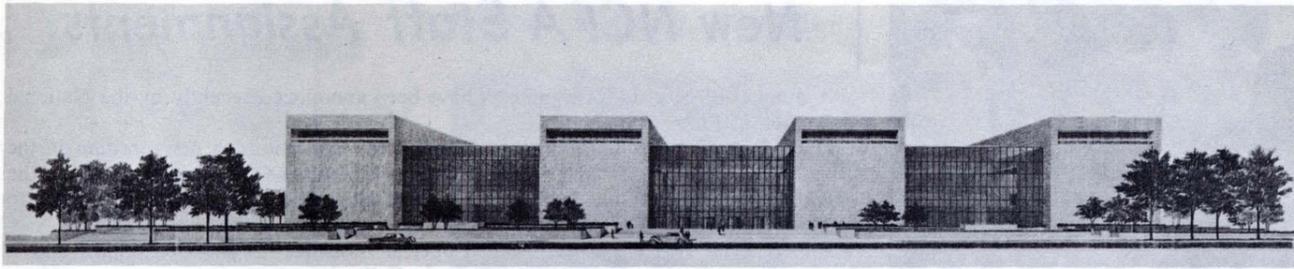
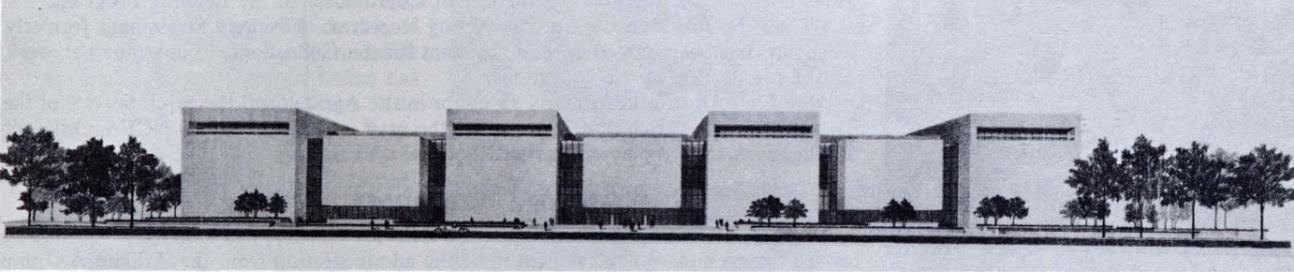


Construction Underway on National Air and Space Museum



Architect's drawings of Air and Space Museum show Mall side with glass bays (above) and Independence Avenue side (below).



Building Set For Opening July 4, 1976

Construction has begun on SI's long-awaited new home for its National Air and Space Museum.

The fourth major new Mall museum building to be erected over the past two decades, it will open to the public on July 4, 1976 as a national center for education about the science and technology of flight and its social, cultural and political meaning.

Like the National Museum of History and Technology (1964), the Joseph H. Hirshhorn Museum and Sculpture Garden (opening in 1974) and the National Gallery of Art's east building (opening in 1976), the building's architectural character will be decidedly modern.

Cleanly and simply proportioned by its designer, St. Louis architect Gyo Obata, it will combine seven marble and glass-curtained modular bays, forming an integrated symmetry intended to harmonize with its surroundings, especially the National Gallery of Art's classical building on the opposite side of the Mall.

The most striking individual features of the building's exterior will be three well-proportioned glass bays on the Mall side. Visitors outside will be able to look through their glass walls into three spectacular glass-roofed exhibit halls 60 feet high, 115 feet wide, and 120 feet deep.

Entering the building from the Mall, a visitor will step into the center glass bay where he will see in front of him the *Wright Flyer* rising into the air off the slope of a sand dune, a setting recreating man's first flight on a heavier-than-air craft, at Kitty Hawk, N.C. in 1903.

Spaced in a circle around the *Wright Flyer* will be other supremely famous air and space craft, among them the *Spirit of St. Louis*, the *X-1*, and the Apollo 11 command module.

As they walk through the more than 20 exhibit halls located throughout the two-level building, visitors will see other selected artifacts from the NASM collections incorporated into a progression of thematic exhibits documenting the technology and history of flight and conveying an understanding of its impact on man and his environment.

These exhibits are being planned by the NASM staff in collaboration with the Smithsonian Office of Exhibit Programs. The first two to be completed are the "Ballooning" and "World War I Aircraft" exhibits currently on view in the Arts and Industries Building.

Exhibits coming up in 1973-74 include "Life in the Universe," "Air Traffic Control," "Apollo," and "Barnstorming, Record Setting and Stunt Flying." All of these will be shown temporarily in A&I and then put in storage until they can be reconstructed in the new building.

The museum also will house an auditorium/film theater, and a 350-seat "Spacearium." The latter facility can be used to project conventional planetarium-star shows but is planned to serve primarily as a center for large audio-visual presentations of air and space flight.

"Between the two chambers, we hope to be able to create sights and sensations as diverse as an early balloon ascent in Paris, seen from Benjamin Franklin's balcony; an orbital rendezvous with Skylab; Lindbergh's landing at Le Bourget; and flights to other planets," says Michael Collins, Director of NASM.

Other museum facilities will include NASM staff offices, a large library-research center and conference area, a cafeteria seating 300 persons for staff and public, and an underground parking level accommodating approximately 500 cars.

The building site is between 4th and 7th Street, Independence Avenue and Jefferson Drive. "Tempo" buildings that occupied the location for many years

Col. Magruder, NAFMAB Head, Dies in Accident

Col. John Holmes Magruder III, Director of the staff of the Smithsonian's National Armed Forces Museum Advisory Board (NAFMAB), was drowned late Sept. 2, near Falmouth, Mass., after the dinghy in which he was going to his sailboat capsized. His wife, Jean, also aboard the dinghy, was saved.



Col. Magruder was responsible for development of a Bicentennial Outdoor Museum to be built near Washington for the U.S. Bicentennial celebration. The museum is planned to be a re-creation of a Revolutionary War encampment, with all its attendant activities.

"The Bicentennial Outdoor Museum will be a major part of this country's 200th birthday celebrations, and its existence will owe much to the dedicated work of John Magruder," said Secretary Ripley. "The Smithsonian will greatly miss him and his leadership in this project. The museum, which I am sure will bring both enjoyment and a new sense of their heritage to millions of Americans, will be a tribute to his efforts."

Colonel Magruder, who attended the U.S. Naval Academy, had been with the Smithsonian since 1963, on loan from the Department of the Navy. He joined the Institution's staff full time in 1969, upon his retirement from the Marine Corps. Before coming to the Smithsonian he had been Director of Marine Corps Museums, responsible for conceiving, planning and implementing a museum program for the Marine Corps. In this capacity he established the Marine Corps Museum at Quantico, Va.

An artist as well as a soldier, Colonel Magruder left the service in 1946 and spent six years as a self-employed designer, illustrator and writer. He designed fabrics, furniture and interiors, produced animated motion pictures, and operated a cattle farm in West Virginia. He was recalled to active duty in 1952 to establish Marine Corps exhibits for the Smithsonian's Hall of Naval History. At the time of his death he was President of the Company of Military Historians.

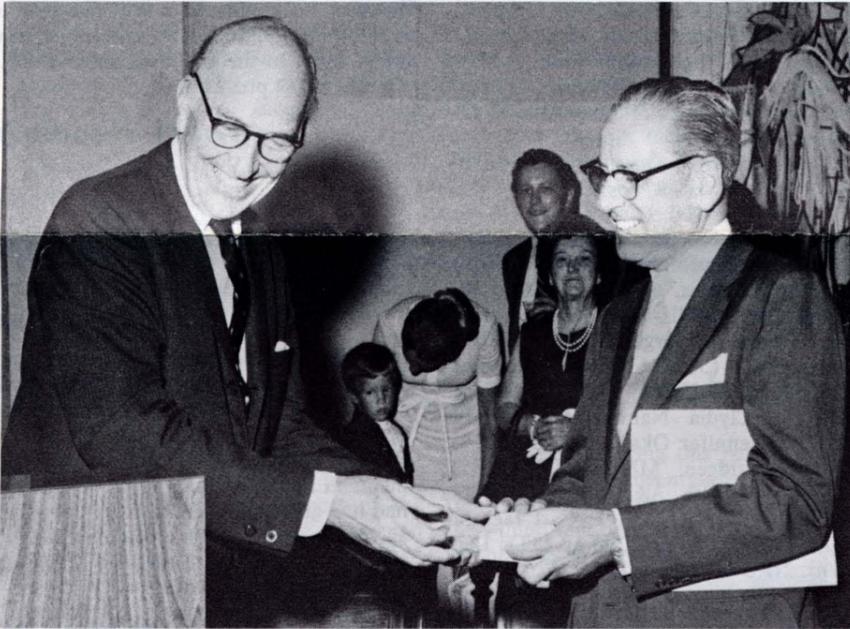
Colonel Magruder, 53, had residences in Washington, D.C. and Middleburg, Va. He is survived by his wife Jean Bowman, his mother, Mrs. John M. Magruder Jr. of Old Lyme, Conn., and sons John IV, of Marblehead, Mass., and Lee Malcolm, and two sisters, Mrs. Peter Brooks and Mrs. Agnes Magruder Phillips, both residents of Italy.



THE SMITHSONIAN TORCH

Smithsonian Institution, Washington, D.C.

September 1972



BRADLEY RETIRES—Under Secretary James Bradley, who retired June 30, received the Secretary's Exceptional Service Gold Medal, an honorarium, and a citation from Secretary Ripley (left) at a reception. Secretary Ripley announced that Mr. Bradley would continue to provide professional services to the Secretary as a consultant. Mr. Bradley received a number of special mementos and other gifts from bureau directors and SI staff members. In his remarks, Mr. Bradley said the Smithsonian generally may be epitomized by the word "knowledge" but to him personally it may also be epitomized by the word "opportunity." He said it had been rewarding to see the growth and strength of the Institution through the years.

R. A. Brooks Assumes Post Of The Assistant Secretary

Dr. Robert A. Brooks, who has been a member of the Smithsonian senior staff for the past year, became The Assistant Secretary of the Institution on July 1.

Dr. Brooks has taken over the office on the second floor of the SI building formerly occupied by Under Secretary James Bradley, who retired June 30.

Dr. Brooks has a diversified background in academe, business and government. He had served as Deputy Under Secretary at the Institution since July 1971.

As The Assistant Secretary, Dr. Brooks will assist Secretary Ripley in the formulation of programs in the fields of science, history, art, culture and education and in the executive direction of their performance. He will participate in the analysis and solution of problems involved in the determination of policies; in the development and maintenance of an effective management and administrative system to support the Institution's programs; in the development of financial, program, legislative, and policy

issues for consideration by the Secretary and the Board of Regents in representing the Secretary before congressional committees, commissions, advisory boards, and other federal and non-federal agencies, in all official matters including budgetary and legislative reviews and public ceremonial functions.



Dr. Brooks In an announcement, Mr. Ripley stated: "Dr. Brooks has demonstrated outstanding ability and leadership in the

(Continued on Page 4)



Equal Employment Opportunity Counselors are (front row, left to right): Jennifer Oka, Nancy Kirkpatrick, Antoinette Smith, Gwendolyn Baker, Virginia Beets, Dorothy Lewis; (back row) Frank Mathis, Cliff Books, Rodney Evans, Archie Grimmett, Mike Stahl, Carl Jackson, C. G. Pridgen, Mansfield Coates, Rudolph Dale.

Equal Employment Counselors Named for Smithsonian

Part-time Equal Employment Opportunity Counselors have been appointed to serve the Smithsonian.

These counselors, who are permanent employees with other assigned duties, are required by the Institution's EEO action plan and by Civil Service Commission regulations. They are available for use by all Smithsonian employees and applicants for employment who feel they have been, or are the victims of discrimination within the Institution because of their race, color, religion, sex or national origin.

EEO counselors are required to attempt to resolve complaints informally. They are presently undergoing extensive training to prepare them for their roles. In an effort to find solutions, each counselor will make inquiry into a problem, advise the employee of the merits of the case and of the EEO complaint system and rights thereunder.

Although an EEO counselor reports regularly to the Director of Equal Employment, Archie D. Grimmett, the relationship between counselor and employee is confidential. An employee's

name will be used in discussions only if the employee has given permission.

To provide ease of access for employees, the counselors have been assigned areas of responsibility. However, an employee may use any counselor listed below. At-large counselors are responsible for those areas of the Institution not listed, such as the Sorting Center at Navy Annex or National Portrait Gallery/National Collection of Fine Arts. Counselors may be called directly.

The counselors, areas of responsibility and telephone extensions are:

Gwendolyn Baker, at large, (Extension 6581); Virginia Beets, MHT (5126); Roland Brown, MNH (5781); Mansfield Coates, at large (6217); Rudolph Dale, MNH-MHT (6481); Rodney Evans, at large (6179); Sterling Jones, MHT (5561); Nancy Kirkpatrick, A&I-SI (6344); Frank Mathis, at large (5232); Clydia Nahwooksy, at large (6114); Jennifer Oka, at large (5014); Charles Pridgen, MNH-MHT (5285); Antoinette Smith, A&I (6244); Jeraldine Whitmore, MNH (5464); Carl Jackson, NZP (265-1868, Ext. 280 or 233); Lucy Witt, NPG-NCFA at large (5764).

Employees Invited for Volunteer Work

Smithsonian employees and members of their families (including teenagers) who are interested in doing volunteer work in the Resident Associates program are invited to a sherry/coke hour at 5:15 p.m., Wednesday, October 3, in the Lounge of the SI Building.

The volunteer program will be described, and those interested may sign up for the volunteer service they would like to perform.

"The program offers many opportunities for volunteers—men, women and teenagers—to help with a great variety of activities that are culturally rewarding and, at the same time, of tremendous service," said Mrs. Janet W. Solinger, program director.

Volunteers may monitor on day tours and field trips. The tours and trips include visits to places of historic, cultural and scientific interest. Volunteers receive free admission and free refreshments.

Volunteers also act as hosts and hostesses at exhibition openings. This service allows ample time for enjoyment of the opening. They also may transport scholarship students to and from the Institution on Saturday mornings. Volunteers are also needed to perform light manual labor. This service is particularly requested of teenagers and usually is needed after school on weekdays and Saturday mornings. A scholarship to a course is a fringe benefit.

Persons who are unable to attend October 3 but who are interested in par-

ticipating may contact the Associates Reception Center by telephone, 381-6264.

Magazine Now Resident Benefit

Smithsonian magazine is now a benefit of the Smithsonian Resident Associates.

Employees who are now Resident members and who paid an extra \$5 to receive the magazine will be credited with an extension of their membership based on the unexpired period of the subscription.

Employees who are Resident members and who did not subscribe to *Smithsonian* will receive the magazine as a new benefit when they renew. The magazine also continues to be available to employees as part of the reduced National membership rate of \$5.

Reduced Resident membership rates for employees as of September 1 are: Single memberships, \$12; double memberships, \$15; family memberships, \$20.

Employees may also make gifts of memberships at the same rates, even if they are not members of the Associates. For additional information call 381-6264.

About SI People New NCFA Staff Assignments

A number of new staff assignments have been announced recently by the National Collection of Fine Arts.

Harry Lowe has become Assistant Director for Operations, a new position in the office of the Director. In addition to assisting Dr. Joshua C. Taylor generally in the operation of the museum, Lowe will supervise all operational matters pertaining to exhibition, whether in the galleries or for circulation.

Robert Tyler Davis has been named Special Assistant for the Collections, and is concentrating at the moment on the Gellatly Collection.

David Keeler has been named Acting Chief of the Office of Exhibition and Design.

Donald McClelland has taken on the responsibility of the program of loans to government offices and now has the title of Coordinator of the Lending Program.

William R. Johnston has become Acting Registrar. **Elisabeth Strassman**, formerly Registrar, has been named Special Assistant for the Collections, to continue her work on the registration of the collections.

Mrs. Carrol S. Clark, formerly an editor in the Agricultural Research Service of the Department of Agriculture, has joined the staff as Editor in the NCFA Office of Publications. She replaces **Georgia Rhoades**, who retired.

Herman Receives Award

Lloyd E. Herman, administrator of the Renwick Gallery, has received a meritorious award for exemplary achievement in public administration from the William A. Jump Memorial Foundation. The citation to Mr. Herman reads in part: "For outstanding leadership, initiative, tact and imagination in the successful preparation and launching of the Renwick Gallery." He was nominated by Secretary Ripley for the honor.

Mrs. Hamilton Is Coordinator

Mrs. Susan Hamilton has been appointed Bicentennial Coordinator for the Smithsonian. She will be responsible for assisting in the development and realization of the Institution's plans for the celebration. She will work closely with a Smithsonian-wide Bicentennial Committee soon to be appointed, and with John Slocum on coordination of Smithsonian representation on Bicentennial organizations outside the Institution. Mrs. Hamilton served for three years as Program Director of the Smithsonian Associates before being appointed to the new position.

Gibbs Succeeds Watson

Dr. Robert H. Gibbs, Jr., is the new Chairman of the Department of Vertebrate Zoology in the National Museum of Natural History. He replaces **Dr. George E. Watson** who has served a full five-year term as Chairman. Dr. Watson will return to full-time research with birds, their distribution, and ecological relationships. Dr. Gibbs came to the Smithsonian in 1963. He is also biological coordinator for the "Ocean Acre" program.

Vogel Heads MHT Department

Robert M. Vogel has been appointed as Chairman of the Department of Science and Technology at the National Museum of History and Technology. Mr. Vogel began his career at the Institution in the Division of Mechanical and Civil Engineering in 1957, and became Curator and Supervisor of the Division in 1967. He will continue as supervisor.

Grant Succeeds Kier

Dr. Richard E. Grant became chairman of the MNH Department of Paleobiology July 1, when he replaced **Dr. Porter M. Kier**, who had served the full five-year term as chairman. Dr. Grant had been employed since 1961 as a research paleontologist by the U.S. Geological Survey. Dr. Kier received the first Director's Award from Dr. Richard Cowan, MNH director, who praised Dr. Kier for his outstanding achievements in scientific research as well as his skills at management. He said few people had had greater influence on the course of the museum's development during his years as chairman. In a statement, Secretary Ripley noted that Dr. Kier had given five years of outstanding leadership to the department. Dr. Kier will return to full-time research on echinoids.

Mullins to Direct RIF

William B. Mullins has been named president of Reading Is Fundamental, and will be directing its activities from the national RIF office in the Arts and Industries Building. Mr. Mullins formerly was with the National Center for Voluntary Action which he helped found in 1970, and prior to that was assistant to Sargent Shriver in the Office of Economic Opportunity.

NPG Education Curators

Dennis O'Toole, a doctoral candidate and instructor in the history department of Brown University, Providence, R.I., has been named Curator of Education for the National Portrait Gallery. Among his other accomplishments, he helped establish an experimental school in urban Providence in 1968. **Lisa Wilson Strick** has been appointed Associate Curator of Education at the NPG. She formerly was employed by the Philadelphia public school system.

Women's Committee Offers Calendar

A limited edition of the 1973 Appointment Calendar published by the Women's Committee of the Smithsonian Associates is being offered to Smithsonian employees and Associates at a reduced price of \$2.50.

The attractive, illustrated calendars are boxed for mailing. They may be purchased at the museum shops, at the Associates Reception Center in the Great Hall of the SI Building, or by mail. To order by mail, make checks payable to the Smithsonian Institution, and mail them to "Calendar, Smithsonian Institution, Washington, D.C. 20560." Include 25 cents to cover mailing.

Funds raised by the Women's Committee are used to help support Smithsonian programs and activities.

SI Sponsors

Astronomy Talks

The National Air and Space Museum and the Smithsonian Astrophysical Observatory are sponsoring a series of nine hour-long lectures in astronomy for the Washington academic and professional community.

To be given at 7:30 p.m. on consecutive Wednesday evenings in the MHT auditorium, the series will provide a comprehensive and current survey of man's past, present, and future concepts of the solar system, with particular emphasis on the results of space science research during the past decade. A. G. W. Cameron of Yeshiva University delivered the first lecture September 20 on the "History of the Solar System."

Rules Reviewed For Employees' Political Activity

Each time a major election approaches, questions arise as to the restrictions on the political activity of government employees. There has been much in the papers lately concerning the Hatch Act and its status now that it has been challenged in the courts.

The Hatch Act is still in force and being enforced. To help to determine what kinds of activities are permissible under the law, the Personnel Office has listed below some "You Mays" and "You May Nots." If you have additional questions concerning whether an activity is permitted, you may call your Personnel consultant on extension 5226.

YOU MAY

- register and vote as you choose
- assist in voter registration drives
- express your opinion about candidates and issues
- participate in campaigns where none of the candidates represents a political party
- contribute money to a political organization or attend a political fund-raising function
- wear or display political badges, buttons, or stickers (except that employees whose jobs require that they wear uniforms may not wear badges or buttons while in uniform)
- attend political rallies and meetings
- join a political club or party
- sign nominating petitions
- campaign for or against referendum questions, constitutional amendments, municipal ordinances, etc.

YOU MAY NOT

- campaign for partisan candidates or political parties
- work to register voters for one party only
- make campaign speeches or engage in other activity to elect a partisan candidate
- be a candidate or work in a campaign if any candidate represents a national or State political party
- collect contributions or sell tickets to political fund-raising functions
- distribute campaign material in a partisan election
- organize or manage political rallies or meetings
- hold office in a political club or party
- circulate nominating petitions
- campaign for or against a candidate or slate of candidates in a partisan election.

News From the Office of Personnel Administration

Vincent J. Doyle, Director

Brenda Howell, Reporter



OFFICE SKILLS WORKSHOP—Secretaries who have completed the "Better Office Skills and Services" workshop conducted by Brenda Howell, of the Office of Personnel Administration are (top photo seated left to right) Marjorie Munson, Office of Registrar; Margaret Frank, Conservation Analytical Lab; Marlayne Liwski, Buildings Management Department; Sandra Weinberg, Archives; Jean Smith, Protection Division; standing left to right: Anna Anders, Performing Arts, (guest speaker) Anastasia Hagood, Office of Personnel Administration; Myrna Byrd, Office of Registrar; Charlotte Cherry, Buildings Management Department; Brenda Howell (instructor); Ann Auman, National Zoological Park; Barbara Faison, FA&PG, Suzanne Jenkins, FA&PG and Mary Ann Sedillo, Office of The Assistant Secretary, (guest speaker). Bottom photo, standing, Brenda Howell, Undine Johnson, MHT; Helen Tatum, Buildings Management Department; Rose Marie Dugan, Museum Programs; (seated) Gwendolyn Walton, Buildings Management Department; Frances Norfleet, Protection Division; Hazelene Evans, Anacostia Neighborhood Museum; Elizabeth Clark, Buildings Management Department.

Red Cross Goal Exceeded at SI

Sincere appreciation and gratitude is extended to those employees who have responded generously in support of the National Red Cross. The Smithsonian exceeded its FY '72 goal set by the Red Cross; it reached 103 percent.

Over the last several years a special effort has been made to increase blood donations by employees in the National

Capital Area. During this period, significant progress has been made in establishing the blood donor program as a regular and important part of the voluntary community service of each agency and its employees. The Smithsonian wholeheartedly endorses this program. We encourage and welcome new donors. As a benefit to you, on the day you donate you are allowed up to four hours administrative leave.

If you wish further information and wish to become a Smithsonian volunteer blood donor, please call Brenda Howell on extension 5226; or, if you are a Buildings Management Department employee, call Cheryl Price on extension 5484.



BARGAINING AGREEMENT—A collective bargaining agreement was signed recently by members of the SI management negotiating team and members of the American Federation of Government Employees, Local 2463, negotiating team. Participating in the signing ceremony were (seated at left) Andrew Michaels, Director of the Buildings Management Department, and Dale Streicker, President of Local 2463. Standing, from left, are Joyce Regan, secretary to Director, BMD; Thomas A. Smith, Jr., mason at SI; Rodney G. Evans, Assistant Director of Personnel; Frank Mathis, First Vice President, Local 2463; John Blackwell, Assistant Director, BMD; Roger Thomas, Vice President for Guards, Local 2463; Richard Toye, Personnel Consultant; Ralph Anderson, Administrative Officer, BMD; Vincent J. Doyle, Director of Personnel Administration; Andrew J. Girolami, Chief, Management Services Division; Arthur L. Gauth, Director of Photo Services; William Waldenmaier, national representative, AFGE; Ralph Biser, National Vice President, AFGE; Eleanor B. Goldsmith, secretary to Assistant Director, BMD.

17 Employees Retire From Staff

Farewell and good luck to 17 employees who recently retired after working many years for government and/or as private employees of the Smithsonian Institution!

We sincerely trust that they will find their retirement enjoyable and rewarding. We also want these former employees to continue to think of the Smithsonian as a "home away from home" and visit their many friends whenever the opportunity arises.

Recent retirees are Cutler E. Allred, Buildings Management Department; Robert L. Blackwelder, Exhibits; Margaret C. Blaker, National Museum of Natural History; James Bradley, Under Secretary (see page 1); Nathan R. Briscoe, BMD; Mabel A. Byrd, MNH; Aubrey L. Canter, National Zoological Park; Alice E. Crawford, BMD; Nash P. Cubero, BMD; Mario Deprato, NZP; Leonard I. Dixon, BMD; James A. Jumper, BMD; Theodore D. Lewis, BMD; Elizabeth Roberts, Cooper-Hewitt Museum; Armitt J. Spohn, Library; John W. Taylor, BMD; Raymond B. Tillery, BMD.

Employees Use SI Learning Lab

The Office of Personnel Administration opened a new training center for Smithsonian Institution employees last December 6. The primary impetus for establishing the center, called the Smithsonian Learning Lab, has been to provide one source of training for those who want to upgrade their present skills or to acquire new skills which will enhance their opportunities for upward mobility.

Listed are Smithsonian employees who have successfully completed programs in the Lab. If you are interested in enrolling in the various programs scheduled, please refer to Office Memorandum 760 for registration procedures.

Basic Statistics—Joseph Benedik, Charles Gearhart, Robert Hacker, Michael Harman, William Levin, Albert Polky, Cyril Speizman, Virginia Fleishman, Karen Ullrich.

Beginning Typing—Anita Banks, Nicola Barthen, Audrey Clayborne, Helen E. Foreman, Beatrice Hipp, Kenneth Walker, Victoria Garfink, Florence Stebbins, Marjorie Munson.

Gregg Speedbuilding—Gwendolyn Avery, Eileen Hall.

Beginning Shorthand—Carol Horn, Constance Ferguson, Anastasia Hagood, Catherine Jackson, Vashti Hill, Betty Grier, Sandra Tilghman, Luwan Thompson, Cynthia Olsen, Judith King, Bonnie Morgan, Marjorie Jones, Hazel Fermino, Priscilla Hensley, Brenda Howell, Gwendolyn Walton, Sandra L. Jones, Margaret Schrader, Evelyn Tucker, Mary A. Harrison, Margaret Cunningham, Marlayne Liwski.

Blue Print Reading and Shop Math—Cecil Howze, Douglas Leudwig, Karl Kerwath, Robert Wallingford, Joseph B. Brown, Harvey McElhenny, Charles Collins, Curley Harper, John Baines, John Kirkley, Marvin Joy, Harrison Trout, William Cole, Leroy Thompson, Gene Thompson.

SI Employees Receive Awards

The Smithsonian encourages individual achievement and the pursuit of excellence. You, as an employee, should work to your fullest capabilities and look beyond the limits of your own position to consider how the Institution can more effectively pursue its goals. Individuals below have been recognized and rewarded for their exceptional efforts since July 1. We wish to express appreciation for their outstanding performance or contributions.

Sustained Superior Performance—Samuel W. Gordon, Wade A. Faircloth, Percy D. Hines, Othello Jones, Frank Mathis, Ronald P. Morris, James E. Pearson, Jesse B. Batts, Donald L. Muddiman, Michael J. O'Brien, Robert F. Ogilvie, James A. Brooks, Betty J. Schaad, Harold F. Pfister.

Outstanding Performance—Huestis Smith, Claude Free, Albert C. Severson.

Suggestion Award—Francis J. McGrath.

Guard of the Month

Pvt. David Tucker of the Smithsonian guard force has been named the outstanding guard for July in a citation praising him for his performance while

on duty in the Arts and Industries Building July 6. While patrolling the ballroom exhibit hall at 5:30 p.m. that day, Private Tucker smelled burning paper and after investigation discovered a trash container on fire in the men's room at the southeast corner of the building. He immediately doused the blaze with an extinguisher. Col. Carl E. Grimley, Chief of the Protection Division, praised Private Tucker for his prompt action in preventing a serious fire.



Conrad Morton, Senior Botanist At MNH, Dies

Conrad Vernon Morton, 66, senior botanist at the Smithsonian National Museum of Natural History and an authority on ferns, died of a heart ailment on July 29 at his home in Washington.

Mr. Morton was born in Fresno, Calif. He received a bachelor's degree with honors in 1928 from the University of California at Berkeley.



Mr. Morton joined the Smithsonian staff as a temporary aide in the Division of Plants in 1928. His unusually retentive memory and scientific abilities were quickly recognized, and he was soon made a permanent employee. He was assistant curator and later associate curator during the period 1938 to 1948. In 1948, he became curator of the Division of Ferns, the position he held at the time of his death.

During the 44 years he studied and added to the plant collections, he became an internationally known authority on ferns and fern allies and on the potato and African violet families of flowering plants. He was an honorary member of both the American Fern Society and the American Gloxinia and Gesneriad Society. He made collecting trips to Mexico, Honduras, St. Vincent, Cuba, and Argentina, and studied extensively in the museums of Europe. He wrote more than 250 articles for technical publications.

Mr. Morton was associate editor of the *American Fern Journal* from 1940 to 1947. He served as editor-in-chief of the publication from 1948 to 1961 and was currently its associate editor.

He was a Guggenheim fellow in 1954, a member of Phi Beta Kappa, Sigma Xi, and Phi Sigma fraternities.

Besides his professional interests, Mr. Morton was an accomplished pianist and painter. He was active in the Washington Arts Club drama and painting sections and served as its corresponding secretary. His other interests included philately, drama and stagecraft, and the history of the cinema.

NASM

Continued from page 1

were torn down in the middle 1960's and the area has been in use since then as a government employee parking lot.

The Smithsonian has been actively involved since its earliest days in the development of flight technology. SI's third Secretary, Samuel P. Langley, conducted pioneering investigations from 1887 through 1903 on the practicability of mechanical flight and in 1917 SI, through the efforts of Dr. Charles Greeley Abbot, granted Dr. Robert H. Goddard funds for his rocket researches. The Institution's aeronautical collections date back to the close of the 1876 Philadelphia Centennial Exposition when a group of kites was acquired from the Chinese Imperial Commission. The NASM collection now numbers over a million items.

To display articles from these collections, the Smithsonian in 1920 took over a World War I temporary building, the present Air and Space Building, and, as growth continued, began to fill areas of the A&I Building with exhibits.

In 1946 Congress officially established the National Air Museum as an SI bureau. Twenty years later the founding act was amended to include the field of space flight, and the museum is now charged with responsibilities that include memorializing the national development of aviation and space flight and serving as a repository of air and space flight equipment and data of historic interest and significance.

'Hand and Spirit' Show at NCFCA

"The Hand and the Spirit: The Religious Impulse in American Art, 1700-1900," showing at the National Collection of Fine Arts from September 29 through November 5, is believed to be the first exhibition ever to document the religious theme in American art.

The show contains more than 120 paintings and sculptures representing Biblical events and characters, classical subjects thought to be morally elevating for their beauty and refinement, and the nineteenth-century American notion of man's spiritual oneness with nature.

Displayed are both the "high" art of Allston, Copley, Eakins, West, and other trained professionals, and the "naive," or folk, art of self-taught nonprofessionals such as Edward Hicks and Erastus Salisbury Field, students of genteel arts in young women's seminaries, and anonymous folk artists.

The show was organized by Jane Dillenberger, Associate Professor of Art History at the Graduate Theological Union in Berkeley, who personally unearthed many works in the show. The catalog she prepared contains an essay by Dr. Joshua C. Taylor, NCFCA director, which was praised by a newspaper art critic as "one of the very few fresh, vital, and absorbingly interesting things that has been written about American art in recent years."

A companion print exhibition at the NCFCA is "The Way of Good and Evil: Popular Religious Lithographs of Nineteenth-Century America." It will continue through November 12.



"Our Lady of the Rosary" by Jose Aragon is one of many works in NCFCA exhibition showing religious impulse in American art.

Brooks

Continued from page 1

administrative, educational, and professional management fields. He brings to this position experience and competence which will contribute most effectively to the future public service and educational programs of the Smithsonian."

Dr. Brooks was born in Calcutta, India, of American parents, Milton and Mabel (Spence) Brooks, on October 16, 1920. He received his early education in Dundee and Edinburgh, Scotland. After coming to the United States in 1934, he completed his secondary education at Roxbury Latin School, West Roxbury, Mass. He received his A.B., summa cum laude, from Harvard, 1940; his M.A. in 1941, and his Ph.D. in 1949.

Entering the Army in 1942, he was assigned to the U.S. Army Air Corps where he was commissioned a second lieutenant in 1943. He served on the faculty of the Air Intelligence School during 1943 and 1944, and was assigned to the Ninth Photo Intelligence Detachment, Seventh Air Force, Pacific Ocean Area, 1944-1945, and saw service in Hawaii, Saipan, Guam, Iwo Jima, and Okinawa. He reverted to inactive status in 1946 as a captain.

Dr. Brooks was a Junior Fellow, Society of Fellows, at Harvard, 1942, 1946-1948; and instructor in classics, Harvard, 1949-1951. He served successively as Research Associate, Vice President, and Director of Harbridge House, Inc., Boston, 1951-1965, where he participated in and directed numerous research, educational and consulting projects for government and commercial organizations, with particular emphasis on military logistics. Dr. Brooks was sworn in as Assistant Secretary of the Army (Installations and Logistics) on October 16, 1965, and served in that position until February 28, 1969. He then returned to Boston and was President of Harbridge House, Inc., from April 1, 1969 until he came to the Smithsonian.

Since 1951, Dr. Brooks also has maintained an interest in classical and humanistic studies, with intermittent publication of notes, articles, translations, and verse.

Dr. Brooks married the former Jane Sheila Kochmann in 1943. They have two daughters, Alison Spence and Camilla Jane, and one son, Roger Angus. He is a Phi Beta Kappa and a member of the American Philological Association and the Episcopal Church. He is a member of the Harvard Club at Boston.

Science Group Plans Ways to Use Collections

A new organization, the Association of Systematic Collections, was formed at a symposium at the National Academy of Sciences on July 6, 7, and 8.

Attended by representatives of systematic collections centers from all over the United States, the announced purpose of the open meeting was to come to an agreement on a first edition of a national plan for the management of systematic resources.

The Smithsonian, because of its historic interests in supporting and expanding the role of systematic biology, was one of the sponsors of the meeting and Secretary Ripley delivered the opening address. Co-sponsor was the National Science Foundation, which expects to provide assistance to systematic collections centers, but feels that this will be most effective if it is made available on the basis of a national plan that will integrate the combined resources of systematic centers.

Six working groups had been formed prior to the conference, and they made reports and recommendations at the symposium bearing on the development of a national program. SI participants in those groups were NMNH Director Richard S. Cowan, James F. Mello, George E. Watson, Paul D. Hurd Jr., Porter Kier and Richard S. Boardman.

The new association will coordinate the work of drawing up a national plan which is expected to be presented in preliminary form at the annual Conference of Systematics Collections in April 1972. Among the recommendations debated at the conference was that a system of National Systematic Centers be established, comprising the institutions that house the principal natural history collections of the United States. It was recommended that these centers receive substantial federal support to supplement what is available to them locally. The suggested criteria for their selection as centers would include (1) size of collections; (2) historical importance of collections, especially in terms of type material; (3) number of major specimen groups well represented; (4) role of the institution in graduate education; (5) size of available staff; and (6) location, with respect to centers of population and also in terms of geographic spread.

Nine institutions were nominated for initial designation as National Systematic Centers: American Museum of Natural

SI Represented At Conference On Environment

The Smithsonian was well represented among the United States delegation to the United Nations Conference on the Human Environment in Stockholm June 5 through 16.

Secretary Ripley served as a member of the U.S. delegation and participated in several committee and plenary sessions during the final week of the conference. At the request of Russell Train, Chairman of the U.S. delegation, Mr. Ripley attended several of the daily press briefings sponsored by the delegation, responding to questions on scientific and ecological subjects.

Among the 550 non-governmental organizations participating in the conference was the Society for International Development, which was represented by William L. Eilers, Director of the Office of Environmental Sciences. Eilers and Robert Citron, Director of the Smithsonian's Center for Short-Lived Phenomena, conferred with UN environmental officials and members of the U.S. Delegation on the role of Smithsonian in the Global Environmental Assessment Program (Earthwatch) which was approved by the conference delegates. Over 100 recommendations for Earthwatch were approved, involving establishment of comprehensive environmental monitoring, research, assessment and information exchange efforts carried out by governments and UN agencies in cooperation with non-government groups. The program deals with oceanic, atmospheric, and terrestrial parts of the environment as well as human health and natural disasters, and will link existing and planned national and international efforts in the first integrated worldwide activity of its kind.

Mary Anglemeyer, librarian for the Woodrow Wilson International Center for Scholars, concentrated on the information aspects of the conference. Environmental studies represent one of the four subject areas of emphasis at the Center. John Milton, a new Fellow at the Center, working on environmental studies, consulted principally with experts on development and environment. Milton is co-author of *The Careless Technology: Ecology and International Development*, published in 1972.

Dr. Lee M. Talbot, on leave from the Ecology Program of the Smithsonian to serve as Chief Scientist for the Council for Environmental Quality, also served on the U.S. delegation. One of Dr. Talbot's major concerns was coordinating the American-initiated resolution for a ten-year moratorium on the killing of whales, which won resounding approval from the delegates.

Dr. Hedia Baccar, Associate Director of the Smithsonian's Mediterranean Marine Sorting Center in Tunisia, served as scientist member of the Tunisian Delegation and was one of six women delegates to the conference. Dr. Baccar, a cytogeneticist, spearheaded efforts of her delegation to draft an intergovernmental convention against further pollution of the Mediterranean.

History, California Academy of Science, Field Museum of Natural History, Harvard University, Los Angeles County Museum, University of Michigan, Missouri Botanical Garden, the New York Botanical Garden, and the Smithsonian. It was recommended that another 10 to 15 institutions ultimately be added to this list.

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