



SMITHSONIAN INSTITUTION, WASHINGTON, D. C.

NO. 8 (NEW SERIES), SEPTEMBER 1965

BOTANY CURATOR RETURNS FROM FAR EAST

Mason E. Hale, curator-in-charge of the Division of Cryptogams, Department of Botany, has just returned from a year's leave of absence from SI, while he worked in Japan with the U.S.-Japan Cooperative Science Program. This program stems from an agreement reached between President John F. Kennedy and Prime Minister Ikeda in June, 1961, to promote cooperation in science between the two countries.



Mason E. Hale (2nd from left)
in Pagbilar, Philippines.

Mason E. Hale, in Pagbilar, Philippines.

Dr. Hale worked with Dr. S. Kurokawa, the Japanese curator who had already spent a year here with him in SI. They applied themselves together to the study of the distribution, taxonomy, and chemistry of parmelia.

Before reaching Japan, Dr. Hale did field work for his collection. He lived in the Philippines for three months and North Borneo for a month. He was in Malaya and Sarawak for three weeks. Dr. Kurokawa, Japanese partner, at the same time completed field work in Taiwan, Thailand, and Java.

In Japan they both shared information. "Just like working here," said Dr. Hale, "only I was over there."

Dr. Hale was happy to report he accomplished what he set out to do and returned with almost 4000 specimens to add to the collection. Since the program itself is to increase cooperation between Japan and U.S., he was also happy to relate how he had enjoyed the friendly Japanese people, and he particularly liked their restaurants; but he and his family are glad to be back in the U.S., where light bulbs, heat, showers, and bath tubs are no problem. However, Dr. Hale confesses to a continuing taste for green tea.

NEWS FROM SAO ON GRANTS AND COMETS

SAO has been awarded a grant from the National Geographic Society for special aerial surveys of two ancient stone monuments of Great Britain, Stonehenge and Callanish.

The aerial surveys will be used by Smithsonian astronomer Dr. Gerald S. Hawkins in studies of the relationship between the design of prehistoric sites and their possible astronomical usage.

The survey is among the first in a new scientific discipline called "astro-archeology."

While aerial photography is well established as a technique for archeological discovery, this may be the first time it has been used in the specific search for links between the design of these sites and some form of early astronomy.

Dr. Hawkins hopes that an aerial survey undertaken at the time of seasonal vegetation changes may reveal structural features used by prehistoric man as sighting tools, astronomical markers, or calculating devices.

Comets, perhaps the most spectacular of all celestial bodies, may actually be rotten to the core. Studies by Dr. Fred L. Whipple and Robert Stefanik of the Smithsonian Astrophysical and Harvard College Observatories show that the decay of radioactive material at the comet's core may so weaken the body's structure that it breaks apart upon entering the warmer region of the planets after a long orbital ride through the colder regions of the outer solar system.

This unusual theory, the breakup of the comet from its own structural defect, was presented on July 5 in a paper entitled "On the Splitting of Cometary Nuclei" read at the 13th International Astrophysical Symposium on the Nature and Origin of Comets at the University of Liege, Belgium. Dr. Whipple, Director of SAO, served as chairman of the symposium.

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This summer, the 15* area teenagers pictured above joined the Smithsonian staff as trainees in a cooperative program between the SI and the Neighborhood Youth Corps of the United Planning Organization. The program was so successful that it will be expanded next year. The youngsters profited through on-the-job training experience throughout the Smithsonian; the SI's labs, shops, libraries and offices profited from the good work of the trainees, many of whom will remain at the SI throughout the coming year.

*There are 26 in this program. Eleven were not able to be present.

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



Caryl P. Haskins

Caryl P. Haskins, president and trustee of the Carnegie Institution of Washington and Regent of the Smithsonian Institution, was born in Schenectady, New York. He received his Ph.B. degree from Yale University and the Ph.D. degree from Harvard University. He is also the recipient of the D.Sc. degree from Yale and Northwestern Universities, and Tufts, Union, and Hamilton Colleges; the LL.D. degree from the Carnegie Institute of Technology, the University of Cincinnati, Boston, and Washington and Jefferson Colleges, and the Sc.D. degree from George Washington University.

He is the author of *Of Societies and Men*, *The Amazon*, *Of Ants and Men*, and *The Scientific Revolution and World Politics*.

SI EMPLOYEES FIND WORLD SMALL

Here is another story on how small the world is if you work with SI, wherever you travel. When Dr. Oscar L. Cartwright, curator, Division of Coleoptera, Department of Entomology, took a terminal bus to the London Airport on his way to Paris, he was able to get the last seat, next to an elderly gentleman who greeted him in English. He asked if he was an American and he said "Yes, I'm from Washington. I work for the Smithsonian." So Dr. Cartwright shared adjoining seats to Paris with Axel A. Olsson, Department of Paleobiology!

ASSISTANT SECRETARY FOR SCIENCE NAMED

Sidney R. Galler has been appointed by Secretary Ripley to the position of Assistant Secretary for Science. Dr. Galler comes to SI from the Office of Naval Research, where he had been head of the Biology Branch since 1950. From that time, his career has been marked by a number of significant contributions to the nation's biological programs: his pioneering work in bio-instrumentation led to the development of the first U.S. orbiting biological satellite experiment, launched from Cape Kennedy on February 4, 1958; his designs in the field of bio-instrumentation led to the development of a series of radio telemetric devices used to monitor the movement of birds as well as terrestrial and marine animals; his further work in bio-instrumentation resulted in the construction of the first experimental underwater audiovisual observatory and he



designed the system of research ships to carry mobile laboratory trailers for oceanographic and biological measurements and samples.

Dr. Galler is a member of the American Institute of Biological Sciences, the American Association for the Advancement of Science, and the Research Society of America. He has received the Navy Superior Civilian Service Award. A native of Baltimore, Dr. Galler received his Ph.D. in hydrobiology from the University of Maryland in 1948.

SI EMPLOYEES IN THE NEWS

Dr. C. G. Holland, SI research associate and well-known expert on Eastern U.S. archeology, will direct the latest project for the SI Division of Cultural Anthropology: the salvaging of archeological sites near Cotton, Alabama. The contract of SI and the Georgia Kraft Co. of Rome, Georgia, funded voluntarily by this company, is the first of its kind in the southeastern part of the United States.

Dr. Clifford Evans, who heads the project, indicated a research expedition is scheduled for September for preliminary survey and field study. "Should significant material be discovered," Dr. Evans said, "further and more extensive studies and excavations will be made," providing for the salvage of invaluable archeological and historical data by the Smithsonian along the Chattahoochee River — which would otherwise be lost forever through the construction of a new papermill and its supporting services.

* * *

Kennedy Schmertz is now serving as Program Director, Foreign Currency Program, Office of International Activities. He will administer the SI program of grants for excavations or research in archeology and related sciences in nations where the United States has accumulated excess local currencies from the sale of surplus agricultural products. Mr. Schmertz served for 13 years in the State Department in assignments embracing cultural and educational exchange as well as foreign currency and other economic matters. These duties took him to Germany and Iraq and he subsequently came to Washington as adviser on U.S. information and cultural policies for Africa. Mr. Schmertz is a graduate of Princeton University where he studied European and American History.

Daniel J. Reed is now with the Smithsonian's National Portrait Gallery as historian. He has special responsibility for developing and maintaining a reference service for scholars, conducting research, and preparing scholarly manuscripts. Dr. Reed has been assistant chief of the Manuscript Division of the Library of Congress. Dr. Reed received his Ph.D. from the University of Chicago.

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Richard Berg has been appointed director of the new SI Office of Public Information. He was formerly with George Washington University as director of Public Relations for three years. He is a native of Los Angeles, California, and has his degree from Fresno State College, with his masters from Boston University.

SI SUMMER HISTORY—1965

SUCCESS FOR SUMMER EDUCATION PROGRAM

Among the summer successes for SI, the Education Program rated high. The college upper classman or graduate not only was provided a paying job but also was given an opportunity to engage in research in his major field of study.

Sixteen undergraduates in the sciences were appointed and were responsible for the completion of a specific project. "Although under the guidance of a SI staff member, the student was still expected to produce work of a high quality on his own," said Jerold Roschwalb, assistant director of Education and Training. These opportunities were provided by a National Science Foundation grant; students were placed in MNH, Radiation Biology Laboratory, and Oceanographic Sorting Center. Here are some typical reactions from student participants:

Saul Krotki, U. of Utah: "Here I have been introduced to research and science. Maybe I have even been introduced to questions I will be answering later in my career."

Christaine Seidenschnur, botany major, Michigan State senior: "The program itself has given me a chance to meet people, other than professors, who are actively working in the same field. . . ."

Jerold Grashoff, botany major, Michigan State junior: "The program is an excellent opportunity for college people to

get a working understanding of their field."

In addition to the NSF grant program, the Smithsonian itself provided funds for 37 research appointments, primarily to graduate students and upper classmen working toward degrees in Smithsonian subjects. The students were given definite assignments relating to their special fields of interest, and turned in a final report at the end of the summer's work.

Diane Alexander, U. of Maryland senior, majoring in home economics: "I was able to apply what I had learned at Maryland about fabric characteristics and with the aid of a high-powered microscope to pinpoint types."

Henry Hull, Georgetown University teaching assistant and member of the American Military Institute: "This project has certainly stimulated my interest in naval history. In addition to research, however, I have examined models, learned what makes a good exhibit, and gotten an excellent overview of history."

William Taylor, Brown U. doctoral candidate: "In order for the program to continue to be successful, the student must be placed in his specific field of interest, but he must also possess some background in the field to eliminate the time spent on orientation and guidance."



Washington Ballet performing on MHT Terrace. Mary Day, Director.



Smithsonian Tower Musicians

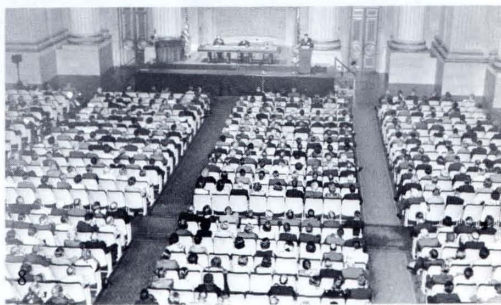
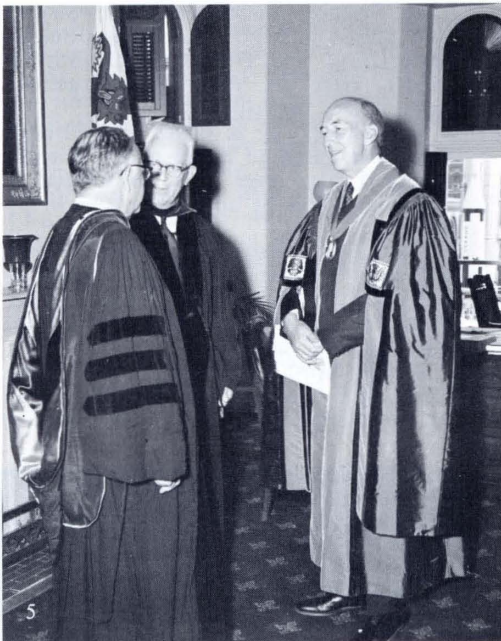
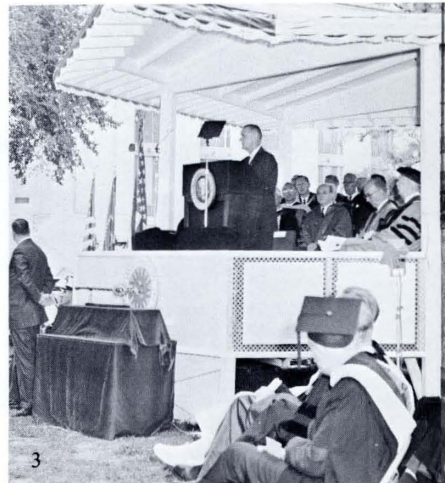
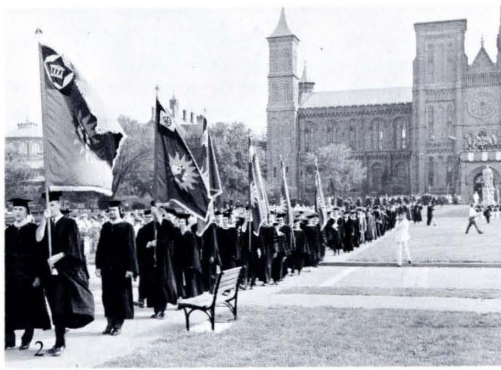


Fife and Drum Corps,
First Maryland Regiment



MHT's new terrace on the Mall, where one may now drop into a chair and nibble on his lunch sandwich or just watch the tourists around him, is the latest concept in outdoor pavilion designing. The slatted canopies intended to intercept the sun without cutting off the filtered light and breeze, were designed by Victor Lundy of Guilford, Conn., and New York. The canopy is arranged in six 40-foot-square sections, three on each side of the Mall entrance. Benjamin Lawless, chief of exhibits at MHT reports: "It creates a graceful pattern of swooping cables and lines and will soften the contour of the buildings and put some life in the area between the building and the trees." The Mall is slowly losing its bleakness!

SMITHSON BICENTENNIAL IN PICTURES



1—Great Hall in SI during Registration. / 2—Procession on Mall. / 3—President Johnson. / 4—Tents for visiting scholars set up near MHT. / 5—Secretary Ripley with Chief Justice Warren and Bishop Moore. / 6—President Johnson and Secretary Ripley. / 7—Betsy Brown, Mrs. Wetmore, Dr. Wetmore, Mrs. Judith MacWilliams, examining golden mace. / 8—Scholarly session, Friday. / 9—Relaxing before A & I Bldg. morning of Convocation. / 10—Lord Florey of England; Dr. Abbot. / 11—Mrs. Johnson with Secretary Ripley and family at White House tea for Bicentennial Guests. / 12—Bob Wood and Tong-Chin Rhee, NAM; Jim Cornell, SAO; Tom Witherspoon, SI; Nancy Powars, Meredith Johnson, and Eloise Edelen of SI.