

Announcements

The **National Association of Manufacturers** (NAM) has begun a program of awards for people in industrial research and development who have made significant contributions to the improvement of living standards. Nominations

for the "Modern Pioneers in Creative Industry" awards are invited from industrial organizations, whether or not they are members of NAM. Individuals or teams may be nominated for work on a project that meets at least one of the following criteria: satisfies human needs, increases employment, provides

a new article of commerce or service, or significantly improves the quality or reduces the cost of an existing product. Nominations will be judged by a committee chaired by Frederick L. Hovde, president of Purdue University. The award medals and scrolls will be presented during the NAM congress of

International Gathering to Mark Smithsonian Bicentennial

One of the great ceremonial occasions of the international scholarly community will take place 16–18 September in Washington when some 3000 persons from 90 countries take part in the bicentennial celebration of the birth of James Smithson, founder of the Smithsonian Institution.

The celebration will open Thursday afternoon, with the Smithsonian regents leading an academic procession of some 500 robed participants, starting from the century-old Smithsonian Building and concluding at the Museum of Natural History across the Mall. The procession will be led by Chief Justice Earl Warren, who is chancellor of the Institution, and Vice President Hubert Humphrey, who is a member of the board of regents. President Johnson has been invited, but it is not certain whether he will be able to participate. Major addresses at the opening ceremonies will be given by the Chief Justice and by Leonard Carmichael, immediate past secretary of the Smithsonian. A reception will follow in the pavilions to be constructed on the Mall.

During Friday and Saturday, the guests—and the public as far as seats are available—will attend scholarly sessions where participants from the United States, Canada, and Europe will read papers and lead discussions centered around the bicentennial theme, the unity of knowledge.

Among those who will speak are Fred Lawrence Whipple, director, Smithsonian Astrophysical Observatory; Claude Lévi-Strauss, professor, Collège de France, and director, Institut d'Ethnologie, University of Paris; Ian McTaggart Cowan, dean of Faculty of Graduate Studies, University of British Columbia; J. Robert Oppenheimer, professor of physics, and director, Institute of Advanced Study at Princeton; Herbert Butterfield, master of Peterhouse, regius professor of modern history, Cambridge University; and Lewis Mumford, author of numerous articles and books on urban problems and president, American Academy of Arts and Letters.

Also included will be G. Evelyn Hutchinson, Starling professor of zoology, Yale University; Sir Kenneth Clark, former director of the National Gallery, London, and former chairman of the Arts Council of Great Britain; Arthur Koestler, author of *Darkness at Noon*, *The Act of Creation*, and other works; Jerome S. Bruner, professor of psychology, and director, Center for Cognitive Studies, Harvard; and Stephen E. Toulmin, professor of the history of ideas in philosophy, Brandeis University.

A newly established award, the Smithson Medal, will

be presented at the closing dinner meeting, in recognition of outstanding contributions in science, technology, history, and art. The Hodgkins Medal for outstanding contributions to the knowledge of the nature and properties of atmospheric air also will be given. Addresses will be made by Thomas Boylston Adams, president of the Massachusetts Historical Society, and by S. Dillon Ripley, secretary of the Smithsonian.

History is somewhat vague about the origins of James Smithson. It is believed that he was born in France in 1765, the illegitimate son of Elizabeth Keate Macie and Hugh Smithson, who later became Duke of Northumberland. Smithson was brought to England for his education and was naturalized. He was graduated from Pembroke College, Oxford, with an M.A. in 1786 and admitted as a Fellow of the Royal Society of London the next year. He first used the Smithson name in 1794 (8 years after his father's death) in a paper to the Royal Society. The next record of James Smithson is a paper written by him in Paris. Historians gather that Smithson lived the rest of his life in Paris, though he died in Genoa and was buried there in the little English cemetery on the heights of San Benigne. (In 1900 it was learned that city authorities intended to abolish the cemetery, and early in 1904 Smithson's remains were removed to Washington, where they now lie in a small mortuary chapel in the entrance of the old Smithsonian building.)

Upon his death in 1829, it was found that he had bequeathed his property "to the United States of America to found at Washington under the name of the Smithsonian Institution an establishment for the increase and diffusion of knowledge among men."

It wasn't until 1846, and after years of debate, that Congress accepted the bequest and created the Smithsonian Institution as a private research and educational corporation administered by a board of regents composed of six private citizens, three senators, three representatives, the Chief Justice, and the Vice President of the United States.

Apart from its scholarly aspects, the bicentennial celebration will include special showings of the museum collections, lunch at the National Zoological Park (which is a part of the Smithsonian), and a White House reception. The Institution will also provide buffet luncheons—as well as the reception on opening night—on the Mall in four giant, colorful pavilions that will be raised near the Museum of History and Technology.

—J. A.

American industry in New York, 1-3 December. Deadline for receipt of nominations: *1 October*. Nomination forms are available from the chairman, Committee on Awards, Modern Pioneers in Creative Industry, P.O. Box 2273, Grand Central Station, New York 10017.

The **Drug Information Association** has been formed to act as a central agency for its members in the processing and exchange of drug information. The Food and Drug Administration, American Medical Association, and the pharmaceutical industry are sponsoring the organization. Its members include personnel active in information activities. Eric W. Martin, of Lederle Laboratories, is president of the association. The organization plans to hold a national meeting 9 October in Washington. Information on the program can be obtained from D. E. Frank, 2215 Constitution Avenue, Washington, D.C. 20037.

The University of Arizona, Tucson, and the University of Sonora, Mexico, have established a cooperative **international marine research station** in the northern Gulf of California. Construction of the station began in June at Puerto Penasco, Sonora. The objective of the station's program is to collate all faunal, floral, and oceanographic information on the Gulf of California to lay the foundation for extensive ecological, oceanographic, and fisheries investigations. Manuel Puebla, director of the Center for Scientific and Technological Research of the University of Sonora, and Donald A. Thomson, of the University of Arizona, are coordinating their schools' participation in the project.

Duke University plans to initiate a program to train "**physicians' assistants**" to take over, under supervision, many of the routine tasks performed by doctors, nurses, and technicians. The purpose is to free the physician to care for more patients. High school graduates may enroll in a 2-year program which will give training similar to that of medical corpsmen in the military services. Their course work will include anatomy, physiology, surgery, and nursing principles, aimed at providing a background for further on-the-job training in selected clinical areas. Eugene Stead, chairman of the department of medicine, will be in charge of the project.

Meeting Notes

The Chemical Institute of Canada will present its 15th **chemical engineering** conference, 25-27 October in Quebec. Symposia will be presented on chemical engineering problems in atomic energy; digital simulation of a contact sulfuric acid plant using PACER; fluid-particle systems; high temperatures and their applications; mass transfer, and mass transfer in chemically reacting systems; mixing in chemically reactive and nonreactive systems; and waste disposal and water pollution. (C.I.C., 48 Rideau Street, Ottawa 2, Ontario)

The first Middle Atlantic regional meeting of the American **Chemical Society** will be held in Philadelphia 3-4 February. Papers are invited in the following areas: analytical, industrial, engineering, medical, inorganic, organic, petroleum, physical, and polymer chemistry, and chemical education, and in biochemistry. Deadline for receipt of abstracts: *29 October*. (Philadelphia Section Office, American Chemical Society, 212 Harrison Laboratory, 34th and Spruce Streets, Philadelphia)

The fourth annual meeting of the Society for **Psychophysiological Research** will be held 15-17 October in Houston, Texas. It will include scientific papers on instrumentation, methodology, experimental results, and theory. (N. R. Burch, Department of Psychiatry, Baylor University College of Medicine, Houston 77025)

The American **Translators Association** and the Society of Federal Linguists will hold their convention 5-7 November in Washington. The program will include workshops in scientific, technical, and literary translation, and panels on translator accreditation and professional standards, translator education in the U.S., and the U.S. government's translation activities. (B. Bierman, 630 Fifth Avenue, New York)

Grants, Fellowships, and Awards

The Arctic Institute of North America invites applications for grants in aid to support individuals in any aspect of **scientific research in the Arctic** and Subarctic, and in Antarctica. Proposals which include field studies are welcomed. Special opportunities for research exist at several facilities in Arc-

tic North America. Deadline for receipt of applications for work next year: *1 November*. (Director, Montreal Office, 3458 Redpath Street, Montreal 25, Quebec, Canada; or Director, Washington Office, 1619 New Hampshire Avenue, NW, Washington, D.C. 20009)

A 15 October deadline has been set for receipt of applications for next year's **White House Fellows** program. Candidates may be in any occupation, but they must be U.S. citizens, 23 to 35 years old on 1 September of next year, and graduates of accredited colleges. They may apply on their own behalf or be nominated by others.

The program, offered this year for the first time, provides a year's experience in federal government: of this year's 15 fellows, four will be assigned to the White House, one will work with Vice President Hubert Humphrey, and one with each of the ten cabinet officers. This year's stipends are provided by the Carnegie Corporation. They range, based on age, from \$7500 to \$12,000, plus an additional \$1500 for married persons and \$500 for each child. Nominations, inquiries, and requests for application blanks should be addressed to the Commission on White House Fellows, The White House, Washington, D.C.

Publications

The National Science Foundation has released a new guide to **scientific manpower resources**. The publication is intended as both a source book and as a guide to more detailed information in the original sources. (*Scientific and Technical Manpower Resources: Summary Information on Employment, Characteristics, Supply, and Training*. Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. 184 pages. \$1.25)

English translations of foreign documents and journals in the **social sciences** are offered by the Commerce Department's Clearinghouse for Scientific and Technical Information. They will be announced as they become available, in the semimonthly *Technical Translations*, a clearinghouse publication, and may be ordered from the clearinghouse, Springfield, Virginia 22151. The cost will cover reproduction and handling. The Joint Publications Research Service, a part of the

clearinghouse, is the government's main producer of social science translations. It provides federal agencies with translations of foreign documents in all areas of science, on a contract basis.

New Journals

Meteoritica; translation of vol. 23, 1963, МЕТЕОРИТИКА, Committee on Meteorites, U.S.S.R. Academy of Sciences. R. W. Bower, translation editor. The publication is an "irregular annual digest of Soviet research and theory in meteoritics" edited by V. G. Fesenkov and Ye. L. Krinov; the translation was released in April. (Taurus Press, Inc., 207 East 37 Street, New York 10016. \$15 per copy)

Scientists in the News

The Smithsonian Institution has appointed **Helmut K. Buechner**, former professor of ecology at Washington State University, assistant director (ecology). **Charles Blitzer**, formerly executive associate of the American Council of Learned Societies, has been named to direct the Smithsonian's education and training program and to establish cooperative research projects between the Smithsonian and U.S. universities.

Eliot Stellar, professor of physiological psychology in anatomy at the University of Pennsylvania, has been appointed director of the university's Institute of Neurological Sciences, to succeed Louis B. Flexner.

Kelso B. Morris, professor of chemistry at Howard University, Washington, has been named chairman of the department, succeeding Lloyd N. Ferguson.

W. Lewis Hyde, associate dean of the college of engineering and applied science and professor of optics at the University of Rochester, has been named director of the university's Institute of Optics.

Albert E. Sobel, formerly a molecular biologist at Beth Israel Hospital, New York, has become associate professor and director of biochemistry at the University of Pennsylvania, graduate hospital.

The University of Arizona has appointed **A. R. Kassander, Jr.**, director of the water resources research center.

He will retain his position as director of the Institute of Atmospheric Physics at the school.

James B. Wyngaarden, former professor of medicine and associate professor of biochemistry at Duke University Medical Center, has become chairman of the department of medicine at the University of Pennsylvania.

The Institute for Defense Analyses has appointed **Milton U. Clauser** director of its research and engineering support division.

Harold Laufman, former professor of surgery at Northwestern University medical school, has been appointed director of the Institute for Surgical Studies at Montefiore Hospital and Medical Center, New York, and professor of clinical surgery at Albert Einstein College of Medicine.

Joel W. Hedgpeth, director of the Pacific Marine Station, Dillons Beach, California, has become resident director of the Marine Science Center, operated at Newport, Oregon, by Oregon State University.

Raymond L. Bisplinghoff will not become president of Case Institute of Technology as he had previously announced. According to a NASA statement, he will continue as associate administrator for advanced research and technology, until October when he is to be succeeded by **Mac C. Adams**, now vice president and assistant general manager for space systems at AVCO. Then he will join the office of NASA Administrator James E. Webb as special assistant. He will work on "a number of high level NASA problems" in advanced research and technology.

The new president of the Chemical Institute of Canada is **Hugh S. Sutherland**, president of Shawinigan Chemicals, Ltd., Montreal.

E. L. Powers, formerly senior biologist in the division of biological and medical research, Argonne National Laboratory, has been appointed professor of zoology at the University of Texas.

The new president of the International Federation for Information Processing is **Ambrose P. Speiser**, director of the IBM Research Laboratory, Zurich, Switzerland. He will serve for a 3-year term.

Jay Burns, former director of the laboratory of applied sciences at the University of Chicago, has been appointed associate professor of astronomy at Northwestern University, effective 1 October.

Chien-Shiung Wu, physics professor at Columbia University, has been named to receive Formosa's Chi-Tsin Culture Foundation award. The \$10,000 prize is presented biennially for achievement in science.

The new president of the American Veterinary Medical Association is **Don H. Spangler**.

Recent Deaths

Ralph C. Benedict, 82; retired professor of biology at Brooklyn College; 5 August.

H. Boris Burns, 65; president and board chairman of the United States Vitamin and Pharmaceutical Corporation; 3 August.

William C. DeVane, 67; dean emeritus of Yale College; 16 August.

Jay Pearson, 64; chancellor of the University of Miami; 8 August.

Everett S. Wallis, 65; Hepburn professor of organic chemistry at Princeton and active in the development of cortisone; 10 July.

Major Contracts and Grants

The following have been announced by the Department of Health, Education and Welfare, under the federal program to help establish or expand noncommercial **educational television** facilities:

Educational Television Council of Central New York: \$300,000, activate channel 43, Syracuse.

Twin City Area ETV Corp., St. Paul, Minn.: \$168,719, activate channel 10, Appleton, Minn.

Oregon State Board of Higher Education: \$103,029, expand signal range of KOAP-TV, Portland; \$212,387, expand signal range of KOAC-TV, Corvallis.

Erratum: The meeting note on the 18th gaseous electronics conference sponsored by the American Physical Society, to meet 20-22 October (6 August, p. 619), erroneously stated that papers are invited on engineering applications and specific devices. The conference will deal with basic atomic processes and phenomena associated with the physics of ionized gases.

Erratum: The book review by R. N. Varney on *Principles of Electron Tubes: Including Grid-Controlled Tubes, Microwave Tubes, and Gas Tubes* (2 July, p. 48), was mistakenly headed "Transistor Devices."