

NATO Proposes Establishment of International Science Institute

NATO has released for consideration and discussion a study calling for the establishment of an International Institute of Science and Technology.

The institute would be located in Western Europe, and would "provide a new stimulus to existing institutions and add to the scope and diversity of Western education at the highest academic level." The study was headed by James R. Killian, Jr., chairman of the Corporation, Massachusetts Institute of Technology.

As proposed in the study, the institute would be devoted exclusively to predoctoral and postdoctoral work "at the pinnacle of the university system," with no undergraduate student body. The study also contained a recommendation that the institute include a center for advanced study as well as interdisciplinary centers for applied mathematics and theoretical physics, technological processes and systems, materials research, earth sciences, and life sciences.

According to the study, the estimated capital needed to establish the institute would be about \$56 million and the annual running costs would be about \$17 million. Funds would be raised by contributions from the participating nations and also by private donations. The institute would grant its own doctoral degrees. When operating at capacity it would train about 1000 students a year.

Worldwide Hydrology Study, on IGY Pattern, Planned by UNESCO

Plans for an International Hydrological Decade, starting in 1965, are being developed by the United Nations Educational, Scientific and Cultural Organization (UNESCO).

The program, which would be patterned after the International Geophysical Year, will be discussed at a general conference at UNESCO's Paris headquarters in February or March. Preliminary plans call for a worldwide effort aimed at promoting and coordinating studies for the use and conservation of water resources. A budget of up to \$60,000 has been decided upon for the planning stages. American representatives have assured UNESCO that this country will provide strong support for the program.

Announcements

An experimental project to promote the use of broadcast television for **communications among scientists and engineers** will be initiated with a weekly TV series, "Science and Engineering Television Journal," to begin at 11:10 P.M. on Thursday, 6 December, over New York ETV channel 13 (WNDT). Administered by the AAAS and produced under the direction of John MacKenzie, former executive secretary of the Council for Medical Television, the 1-hour programs will be devoted to topics of professional interest and presented on a level comparable to that of professional journals and meetings. Techniques for developing two-way question-and-answer facilities between viewers and participants are being studied.

Participating in scheduling programs will be the American Chemical Society, American Institute of Biological Sciences, American Meteorological Society, American Psychological Association, Conference Board of Mathematical Sciences, Engineers' Joint Council, American Society of Mechanical Engineers, American Society of Civil Engineers, American Institute of Electrical Engineers, American Institute of Chemical Engineers, and American Society of Heating, Refrigerating, and Air Conditioning Engineers. Partial support for the project is provided by a \$60,800 grant from the National Science Foundation.

A 4-year **academic exchange program** was initiated this fall between Washington University, St. Louis, Mo., and Waseda University, Tokyo. The program calls for research projects, to be directed by exchange professors, intended to provide a body of comparative data which can be used by both institutions for purposes of instruction at the undergraduate and graduate levels. Also included will be joint expansion of language instruction and exchange of books and research materials. Shigeo Kawamoto, Waseda University specialist in language teaching, will direct the 1962-63 program at Washington University.

The **lipid distribution program** sponsored by the National Institutes of Health has been extended to include additional mixtures of saturated fatty acid methyl esters for research purposes. The new samples include 200

mg of each of two mixtures (E and F), ranging from 8 to 16 and 14 to 24 carbons in chain length, respectively. Packages of four other mixtures (A through D), and of eight unsaturated fatty acid methyl esters, are also available. Requests, to be submitted in duplicate, should include a brief description of the intended research purposes. (William H. Goldwater, Lipid Distribution Program, National Heart Institute, Bethesda 14, Md.)

The **Biophysical Society's placement service**, offered free of charge, will be in operation during the society's annual meeting (New York, 18-20 Feb.). Rooms for interviews will be available. Application forms for pre-registration with the service, as well as lists of positions and candidates, may be obtained upon request. (Biophysical Society Placement Service, Box 668, Frederick, Md.)

Meeting Notes

Papers on research and development topics pertinent to **mass spectrometry** are being solicited for the 11th annual conference on mass spectrometry and allied topics, to be held 14 to 19 May 1963 in San Francisco. Deadline for receipt of abstracts: 1 February.

In addition to contributed papers, the conference will include symposia on theoretical problems related to mass spectrometry, certain phenomena in collision mass spectrometry, applications of high resolution mass spectrometers, and mass spectral studies of high temperature inorganic processes. (N. D. Coggeshall, Gulf Research and Development Co., P.O. Drawer 2038, Pittsburgh 30, Pa.)

A workshop on the **social scientists' responsibility toward survival** will be held on 16 and 17 December in Palm Springs, Calif. Sessions will cover dimensions and directions of peace research, indicants of social change and its relevance for peace, anomie and alienation as barriers to survival, social scientists' role in disarmament, economics of peace, psychology of deterrence, mass media, and discrepancy between verbal and manifest behavior. Registration fee is \$20. Deadline: 7 December. (Gerhart Sommer, Social Scientists for Survival, 415 N. Camden Drive, Beverly Hills, Calif.)

An international conference on **elevated temperature mechanics**—the third of the symposia on naval structural mechanics sponsored by the Office of Naval Research—will be held in New York from 23 to 25 January. Sessions will cover the material aspect in elevated temperature design, heat conduction and stress analysis, and reliability and design criteria. Because of the limited space available, attendance will be by invitation and initially limited to those who are actively engaged in elevated temperature research or design. However, should space permit, persons not engaged in such research may also participate. (A. M. Freudenthal, 624 Mudd Bldg., Columbia University, New York 27)

The 5th annual **American Film Festival**, sponsored by the Educational Film Library Association, will be held from 1 to 4 May 1963 in New York. Entries may be 16-mm films or 35-mm filmstrips under the general headings of art and culture; business, industry, and public relations; education and information; health, safety, and medicine; and religion and ethics. Winners will be chosen at screening sessions open to the general public. Deadline: 25 January. (Educational Film Library Association, 250 W. 57 St., New York 19)

Grants, Fellowships, and Awards

Applications are being accepted for the 1963–64 Boris A. Bakhmeteff graduate research fellowship in **mechanics of fluids**. The \$3000 fellowship, intended to cover tuition, subsistence, and, if necessary, a portion of the research expenses, will be awarded for a definite and original research project to be undertaken at an institution of the fellow's choice. Deadline for receipt of applications: 15 February. (William Allan, School of Engineering and Architecture, City College of New York, New York 31)

Graduate fellowships and half-time research assistantships in **plastics** are available at Princeton University. Instruction covers basic theory and properties, evaluation, production, fabrication, design and application of materials, and chemistry. Candidates must have a B.S. degree in engineering or physical science. (Louis F. Rahm, Plastics Laboratory, Princeton University, Princeton, N.J.)

Candidates for the doctorate degree in **botany**, **zoology**, or **biology** are eligible to apply for the two \$5000 Turtox scholarships established by General Biological Supply House, Inc. Applicants must be U.S. citizens. Deadline for receipt of applications: 1 February. (Frank A. Brown, Jr., Department of Biological Sciences, Northwestern University, Evanston, Ill.)

Publications

Approximately 2000 scientists and engineers came to the U.S. from Hungary following suppression of the 1956 Hungarian revolution, according to a recent National Science Foundation report on **Scientific Manpower from Abroad**. The study, which contains statistics on the contributions made to the U.S. professional scientific manpower pool by foreign-born, foreign-trained scientists and engineers, also shows that from 1957 to 1961, the majority of immigrating scientists and engineers came from Canada, the United Kingdom, and Germany; 514 of the 2379 science doctorates conferred on students from foreign universities in 1957–60 went to scholars from Canada, and 463 to scholars from Afghanistan and India combined; the 171 scientists and engineers who immigrated from Cuba in 1961 was more than double the number from that country in any of the previous 5 years; and that of the 40 U.S. Nobel prize winners in physics and chemistry, only 25 were of U.S. origin. (Superintendent of Documents, Government Printing Office, Washington 25, D.C. 25¢. Order NSF 62–64)

Abstracts of foreign publications on **radioisotope technology** developments in Japan, Eastern and Western Europe, and the U.S.S.R. are available on a subscription basis from the Library of Congress. One thousand abstracts on 3- by 5-inch cards, supplied on a monthly basis, will be provided at annual rates of \$50. Checks should be made payable to Treasurer of the United States. (Chief, Science and Technology Div., Library of Congress, Washington 25, D.C.)

The International Atomic Energy Agency has published a catalog listing 167 films on the **peaceful uses of atomic energy**, currently available on loan to organizations in the agency's

71 member nations. Films are listed under subject headings, with descriptive information including country of origin, date of production, educational level, length, and languages available. Copies of the catalog may be obtained free of charge. (Film Library, IAEA, Kärntnerring 11, Vienna 1, Austria)

A Federal Statistics Program for the 1960's—a 69-page report prepared by the Bureau of the Budget for the Joint Congressional Economic Committee—reviews recent innovations in federal statistics programs and discusses changes and new programs under consideration in various fields, including health and education. The Bureau invites statistics users to examine the report and offer comments, especially on needs for new data and improvements in existing series. (Superintendent of Documents, Government Printing Office, Washington 25, D.C. 25¢)

Scientists in the News

Edward Teller, professor-at-large at the University of California, will receive the Atomic Energy Commission's 1962 Enrico Fermi award of \$50,000 for his "contributions to chemical and nuclear physics, . . . leadership in thermonuclear research, and for efforts to strengthen national security."

Francis X. Wazeter, formerly with the Merck Institute for Therapeutic Research, West Point, Pa., is president and director of the newly formed International Research and Development Corporation, Kalamazoo, Mich., an independent firm engaged in the basic and applied aspects of studies in life sciences. **John G. Keller**, former chief of toxicology and pharmacology at Hazleton Laboratories, Falls Church, Va., is vice president and associate director.

Carey B. Joynt, professor and head of the department of international relations at Lehigh University, has been appointed visiting research professor at University College, London.

Roger W. Wescott, associate professor of foreign languages at Michigan State University's African Language and Area Center, has been appointed professor of anthropology and chairman of the social science department at Southern Connecticut State College.

William J. Corcoran, assistant to the technical director of the Navy Special Projects Office, Washington, D.C., has been appointed director of the research and advanced technology division at United Technology Corporation, Sunnyvale, Calif.

Hugh H. Hussey, dean of Georgetown University's school of medicine, will resign early next year to become director of the American Medical Association's division of scientific activities, Chicago. He plans to be associated with the university as consultant and adviser for medical education.

Urner Liddel, assistant director of the Hughes Research Laboratories, Malibu, Calif., has been appointed chief of sciences for lunar and planetary programs at the National Aeronautics and Space Administration.

Charles E. Smith, dean of the University of California's School of Public Health (Berkeley) and president of the California State Board of Public Health; **Jose Alvarez Amezcuita**, Mexico's secretary of health and welfare; and **Theodore F. Hatch**, professor of industrial health engineering at the University of Pittsburgh, have each received a \$5000 Bronfman prize of the American Public Health Association. The awards are presented annually for "international accomplishment in applying new knowledge to the betterment of human health."

Francis S. Johnson, manager of space physics research at Lockheed Missiles and Space Company, has been appointed head of the recently established upper atmosphere and space sciences division at the Southwest Center for Advanced Studies, Dallas, Tex.

John D. Spikes, professor and head of the department of experimental biology at the University of Utah, has relinquished his administrative duties in order to devote full time to research and teaching. He is succeeded by **Ivan M. Lytle**, a member of the department.

Harry D. Goode, assistant district geologist with the U.S. Geological Survey's branch of ground water office, Salt Lake City, has been appointed associate professor of geology at the University of Utah. He succeeds **Ray E. Marsell**, who has retired.

Recent staff appointments at Hazleton Laboratories' primate and gnotobiotic colonies, Falls Church, Va.:

Herman G. Brant, technical director of laboratory animal production and development at Taconic Farms, Germantown, N.Y., as supervisor of the colonies.

William T. Kerber, veterinary laboratory officer in the Virus-Rickettsia Division, Fort Detrick, Md., as a veterinarian.

C. W. Asling, professor of anatomy at the University of California (Berkeley), is on leave until the summer of 1963 at the Institut de Médecine Dentaire, Université de Genève, Switzerland, under the auspices of the Gugenheim Foundation.

R. B. Woodward, Donner professor of science at Harvard University, is the third recipient of the medal for creative research in organic chemistry, presented annually by the Synthetic Organic Chemical Manufacturers Association, New York.

Saul Kit, of the University of Texas M.D. Anderson Hospital and Tumor Institute, has been named professor of biochemistry and head of the new division of biochemical virology at Baylor University College of Medicine, Houston, Tex.

Gene M. Nordby, head of the University of Arizona's department of civil engineering, has resigned to become dean of the University of Oklahoma's engineering college. He is succeeded by **Emmett M. Laursen**, professor of civil engineering at Arizona.

Robert Austrian, professor of medicine at the State University of New York's College of Medicine, has been named professor and chairman of the John Herr Musser department of research medicine at the University of Pennsylvania.

Louis P. Gerber, biochemist formerly with the William T. Thompson Chemical Company, Los Angeles, and **S. I. Dulkan**, physiological chemist and former technical director of Chem-Tech Laboratories, have established Indag Laboratories, Inc., Beverly Hills, Calif. It will serve as an industrial, agricultural, food, and pharmaceutical consulting firm.

Recent Deaths

Niels H. D. Bohr, 77; Nobel laureate in physics and head of the Institute of Theoretical Physics at the University of Copenhagen; 18 Nov.

Bohr, born in Copenhagen, received his M.S. and Ph.D. degrees at the University of Copenhagen, where his father was a professor of physiology. He then went to Britain to work with Ernest Rutherford, who had established that the atom has a dense nucleus with a positive charge and is surrounded by negatively charged electrons in sufficient numbers to make the charges balance. In a series of papers in 1913, Bohr laid the theoretical foundation for spectroscopy with his concept that excited atoms radiate energy in the form of light. He later helped to clarify the basic principles of quantum theory. In 1916 Bohr returned to the university as professor of theoretical physics and was made director of the new Institute of Theoretical Physics in 1920. In 1922, he received the Nobel prize for his research on the structure of the atom and nuclear radiation.

During the early part of 1939, Bohr worked with John A. Wheeler at Princeton and drafted a theory of nuclear fission that remains the basis for much work in atomic energy. After the war, he concentrated on promoting international cooperation to harness atomic energy for peaceful uses, and in 1955 was instrumental in setting up the first Atoms for Peace Conference in Geneva.

He was chairman of the Danish Atomic Energy Commission, and a leader in creating CERN, the European Center for Nuclear Research. He was the first recipient of the Ford Foundation's Atoms for Peace award in 1957.

Sara E. Branham, 74; retired chief of the U.S. Public Health Service's bacterial toxins section; 16 Nov.

Kenneth A. Clendenning, 47; research biochemist at the Institute of Marine Resources, University of California, La Jolla; 12 Oct.

Robert H. Coleman; retired professor of mathematics at the College of Charleston (S.C.); 5 Nov.

Paul L. Errington, 60; professor of zoology at Iowa State University; 5 Nov.

L. Lahut Uzman, 39; Bronson Crothers professor of neurology at Harvard University; 7 Nov.