

be given even wider circulation than in the past.

All the advisory committees are made up of prominent people (the science advisory committee includes three Nobel prize-winners among its 16 members), and the managers of the operation have been delighted to find some teachers using the material in their courses.

How much influence the pamphlets will actually have on a Kennedy administration is uncertain. But it seems obvious that the academic world would have a stronger voice in a Kennedy administration than it has had under Eisenhower. The same may well be true of a Nixon administration, but this is less clear, since the recommendations of such academic committees tend to add up to a program which would require a very substantial expansion of the role of the federal government and of governmental spending. And this is a course which to some extent Nixon, and to a much larger extent the Republican party, finds unacceptable.

A report from Chicago on the Republican convention will appear here in two weeks.—H.M.

News Notes

Medicinal Chemistry Study Group

A new study section within the National Institutes of Health has been set up to evaluate research grant applications in medicinal chemistry. The NIH announcement said that creation of the Medicinal Chemistry Study Section will serve to strengthen and emphasize research grant support related to the health sciences of chemotherapy, biochemistry, enzymology, endocrinology, pharmaceutical chemistry, and pharmacology. Applications for support of medicinal chemistry research often originate in departments of chemistry, pharmaceutical chemistry, and pharmacology and are submitted by investigators who also have an interest in natural products, in the relationship of chemical structure to biological activity, or in reaction mechanisms underlying biological processes.

Chairman of the Medicinal Chemistry Study Section is Norman H. Cromwell, department of chemistry, University of Nebraska. The study section is composed of nongovernmental scientists in the fields of chemistry, pharmaceutical chemistry, and pharmacology.

Nutrition Study in Colombia

At the request of the Government of the Republic of Colombia, a team of United States nutrition experts a month ago began a survey of the nutritional status of the Colombian people, the U.S. Public Health Service recently announced. The study was arranged by the Interdepartmental Committee on Nutrition for National Defense.

Walter G. Unglaub of the Tulane University School of Medicine, New Orleans, is head of the team of clinicians, biochemists, nutritionists, dentists, food technologists, and others who, together with Colombian personnel, are examining large sections of the civilian and military population to obtain information on current nutritional conditions. The team will formulate recommendations for nutritional improvement consistent with Colombia's resources and will provide assistance in the development of standard ration requirements and in the establishment of local nutrition services.

Laboratory equipment has been shipped to Bogotá. At the conclusion of the study, the equipment will be given to the Colombian Government, under provisions of the Mutual Assistance Program, for use in operating permanent nutrition services.

The interdepartmental committee, operating administratively through the National Institute of Arthritis and Metabolic Diseases, is headed by Frank B. Berry, assistant secretary of defense, with Arnold E. Schaefer as executive director. Cooperating U.S. agencies include the International Cooperation Administration and the Departments of State; Health, Education, and Welfare; Defense; and Agriculture.

Dartmouth Plans Convocation

A public convocation on "The Great Issues of Conscience in Modern Medicine" will be held in Hanover, N.H., 8-10 September. Rene Dubos will serve as chairman of the convocation, and other participants will include Mahomedali Currim Chagla (Indian ambassador to the United States and Mexico), Aldous Huxley, Sir Charles Snow, Sir George Pickering, Warren Weaver, George Kistiakowsky, Walsh McDermott, Brock Chisholm, Ralph Gerard, Wilder Penfield, and Sandor Rado.

The convocation, which will be of interest to the layman, will consist of

three panel discussions and four major addresses. Ward Darley, executive director of the Association of American Medical Colleges, will speak at the cornerstone ceremony for Dartmouth's new \$3.5 million medical sciences building.

The public is cordially invited. Arrangements for lodging and meals may be made through the Convocation Office, Dartmouth Medical School, Hanover, N.H.

Science Museum Proposed

Shortly before the Congress recessed a bill to provide for the construction of a permanent museum of science and industry at the New York World's Fair in 1964 was introduced by Representative Seymour Halpern (R.-N.Y.). The bill (H.R. 12729) would authorize the federal government to erect a world center for the exhibition of scientific achievements, with the help of contributions from the state of New York, the city of New York, and private sources.

The museum would be a part of the federal government's participation in the fair, but it would remain a permanent center of international science and invention, operated by a nonprofit organization. Its collection would be modern, not historic, except insofar as historical background is essential to explain an exhibit. A chief purpose of the museum would be to make available traveling exhibits for international circulation.

A 26-member advisory panel of scientists, engineers, and museum planners and administrators would be created to assist in the design and construction of the museum.

Founders' Committee Active

Representatives of the following organizations have been active on the Founders' Committee for the museum: New York Board of Education, Business-Industry Committee of the National Science Teachers Association, American Institute of the City of New York, Engineers Joint Council, American Rocket Society, New York City Council of the National Education Association, United Engineering Center Project, National Foundation for Infantile Paralysis, New York University, City College of New York, Queens College, Brooklyn College, Hunter College, Teachers College at Columbia

University, New York City and Bronx Community Colleges, and Cooper Union.

Among individuals who have been working on the committee is George E. Probst, executive director of the Thomas Alva Edison Foundation. Albert E. Parr, senior scientist at the American Museum of Natural History, has been serving as adviser to the committee.

Translation Program

The American Institute of Biological Sciences is translating and publishing seven Russian research journals in biology. This work is supported by the National Science Foundation, which is eager that the translated material be more widely distributed to biologists throughout the world to aid research, to prevent duplication of work, to give some idea of Soviet activity in biology, and also to bring about better international understanding among scientists.

Because of the NSF support, the AIBS can offer these translations at a fraction of their publication cost, with even further price reduction to AIBS members and to academic and nonprofit libraries. The journals being translated are *Doklady—Biological Sciences Section*; *Doklady—Botanical Sciences Section*; *Doklady—Biochemistry Section*; *Plant Physiology*; *Microbiology*; *Soviet Soil Science*; and the *Entomological Review*.

In addition, the AIBS has instituted a separate program of translation and publication of selected Russian monographs in biology. So far six monographs have been released, and another is in preparation.

Additional information may be obtained by writing to the American Institute of Biological Sciences, 2000 P St., NW, Washington 6, D.C.

News Briefs

Phoenician colony found. The remains of an early Phoenician colony have just been found under the ruins of a monumental Roman city. The archaeological discovery, at Leptis Magna on the North African coast, has been made by members of the Libyan Reconnaissance Expedition of the University of Pennsylvania Museum. Leptis Magna is about 75 miles east of Tripoli, in Libya.

Previous traces of the Punic culture

at Leptis Magna were found in graves under a great Roman theater. These discoveries were made several years ago by British archeologists.

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Biophysics congress. An International Congress of Biophysics will be held in Stockholm, 31 July–4 August 1961. Participants may include members of national societies of biophysics, medical physics, and related fields, and other scientists interested in pure and applied biophysics. The meeting will be divided between a series of symposia devoted to special topics in biophysics and to presentations of a number of contributed papers. Further information may be obtained from Dr. Bo Lindström at the Department of Medical Physics, Karolinska Institutet, Stockholm 60, Sweden.

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Memorial Fund. An Eric Ellenbogen Memorial Fund has been created by friends of the late associate professor of biochemistry at the University of Pittsburgh. The fund will be used primarily for the education of Ellenbogen's children. Contributions should be addressed to Mrs. Maria Fuld-Conderman, 4916 Bayard Street, Pittsburgh 13, Pa.

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Physics education. Approximately 100 delegates and observers from 27 countries will take part in the first International Conference on Physics Education, which will be held at UNESCO House in Paris from 28 July through 4 August. Sanborn C. Brown of the Massachusetts Institute of Technology is chairman of the organizing committee that planned the meeting. Sessions will cover the entire range of education in physics, from secondary school through graduate study.

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Weather satellite. The weather satellite Tiros I has reached the end of its operating lifetime after transmitting 22,952 film-strip frames since it was launched on 1 April. The National Aeronautics and Space Administration's 270-pound vehicle, orbiting at altitudes averaging 450 miles, has given meteorologists unprecedented opportunity to study the earth's cloud cover and relate it to our weather.

Scientists of the U.S. Weather Bureau and other cooperating meteorological groups will be analyzing Tiros data for many months to come. The data already studied have been of great significance to the field of meteorological research.

Grants, Fellowships, and Awards

Endocrinology. The University of Wisconsin Graduate School has initiated a postdoctoral training program in endocrinology. The training consists of an integrated program of laboratory research, seminars, colloquia, workshops, and teaching. Candidates for the program will be chosen on the basis of professional promise and career interest. Appointments carry a yearly stipend of \$6500. Requests for applications should be directed to W. H. McShan, Birge Hall, University of Wisconsin, Madison 6.

Geography. The National Academy of Sciences–National Research Council will conduct, in 1961, its sixth Foreign Field Research Program for American geographers. The program includes all branches of geography as well as closely related fields. Applications in the fields of physical geography are specially encouraged.

The program is designed primarily for graduate students working on doctoral dissertation research, but recent recipients of the doctorate are also eligible.

Financial assistance, which varies according to the project, will provide for travel, field, and living expenses; a stipend is not usually provided. A preference will be shown for field investigations of at least six months' duration. Recipients must submit a detailed report of their field investigations. Applications for field work to be initiated before 1 April 1962 must be submitted before 1 December 1960. Inquiries and applications should be addressed to the Foreign Field Research Program, Division of Earth Sciences, NAS–NRC, 2101 Constitution Avenue, NW, Washington 25, D.C.

Travel. As a result of the joint efforts of the American Society of Biological Chemists and the Division of Biological Chemistry of the American Chemical Society, it is expected that substantial funds will be available from various governmental sources for support of travel of a number of qualified biochemists to the 5th International Congress of Biochemistry, to be held in Moscow, 10–16 August 1961. These funds will be available for use without restrictions as to age.

In addition, approximately \$9000, raised by assessment of members of the two societies, is available for support of young American biochemists who wish to attend this congress.

Application forms are available from

the Travel Awards Committee, 5th International Congress of Biochemistry, 9650 Wisconsin Ave., Washington 4, D.C. Completed application forms must be submitted by *1 October 1960*.

Scientists in the News

Bernard Lovell, director of the Jodrell Bank Experimental Station, Jodrell Bank, England, has been honored for his services in connection with the American deep space probe, Pioneer V. On 14 July he was received by President Eisenhower at the White House, where, through the National Aeronautics and Space Administration, he was presented with a music-box model of Pioneer V. A chart showing how Lovell and his staff have tracked the satellite for 23 million miles through space was prepared by NASA for the President.

The University of Puerto Rico has announced the appointment of **John C. Bugher** as director of the Puerto Rico Nuclear Center, which is operated by the university for the U.S. Atomic Energy Commission. Bugher joins the center from the Rockefeller Foundation, where he has been serving as consultant on nuclear energy affairs. He is a former director of the AEC's Division of Biology and Medicine and at present is chairman of the commission's Advisory Committee for Biology and Medicine.

The Puerto Rico Nuclear Center was established in 1957 as part of the United States' Atoms-for-Peace program, and its work is conducted in both Spanish and English. The Center's programs, open to students from any part of the Americas, include training and related research in the application of nuclear energy in the fields of medicine, agriculture, and the biological and physical sciences.

E. L. Reynolds, research associate and head of the physical growth department at the Fels Research Institute, Antioch College, has a year's appointment as guest professor of anthropology at Hiroshima Jogakuin (Women's College), Hiroshima, Japan.

Clifton C. Doak, chairman of the biology department of the Agricultural and Mechanical College of Texas, has been appointed to head the department of biology at Trinity University, San Antonio, Tex.

Thomas N. Blumer, research scientist and professor in the department of animal industry of North Carolina State College, Raleigh, is the recipient of the 1960 Frank C. Vibrans Senior Scientist Award of the American Meat Institute Foundation. The award was established to permit a scientist, selected because of his outstanding record in research and teaching, to work during the summer months in the foundation's laboratories in Chicago.

Mac V. Edds, Jr., became chairman of the department of biology at Brown University following the retirement from that position of **J. Walter Wilson** on 30 June. Wilson will remain active as the Frank L. Day professor of biology.

S. D. S. Spragg, professor of psychology at the University of Rochester, has been appointed chairman of the university's department of psychology. He succeeds **G. Richard Wendt**, who has been chairman since 1945 and who will continue his teaching and research activities.

Gioacchino Failla, professor of radiology at Columbia University's College of Physicians and Surgeons, has retired, as professor emeritus. After spending the summer at the Marine Biological Laboratory, Failla will join the Division of Radiological Physics of Argonne National Laboratory in the capacity of senior physicist emeritus.

D. Franklin Milam, chief of the division of urology at Charleston (W. Va.) General Hospital, has been appointed associate professor of urology at West Virginia University, Morgantown.

Douglas H. K. Lee, former chief of the research program of the Army Quartermaster Corps, is now chief of the research headquarters of the Occupational Health Program of the Department of Health, Education, and Welfare, at Cincinnati, Ohio.

Geoffrey Edsall, director of the Division of Communicable Diseases at the Walter Reed Army Institute of Research, Washington, has been appointed superintendent of the Institute of Laboratories for the Commonwealth of Massachusetts and professor of applied microbiology at the Harvard School of Public Health. He succeeds **Johannes Ipsen**, who resigned on 1 July to ac-

cept the post of professor of epidemiology and medical statistics at the University of Pennsylvania School of Medicine.

The following members of the U.S. Geological Survey have received distinguished service awards, the highest honor conferred on employees of the Department of the Interior: **Charles A. Anderson**, **Arthur A. Baker**, **Robert H. Lyddan**, **John C. Reed**, **Robert L. Moravetz**, all from the D.C. area; **Robert O. Davis**, Palo Alto, Calif.; and **Eugene H. Herrick**, Rangeley, Me.

Herbert McKennis, Jr., professor of pharmacology at the Medical College of Virginia, is visiting professor at the Instituto de Fisiología in Santiago, Chile, until September. He is giving a series of lectures on special topics in chemical biology in the school of graduate studies of the medical school at the University of Chile.

Robert B. Voight, chief of the Field Division of the Bureau of the Census, Washington, D.C., became assistant to the director of the University of Michigan's Institute for Social Research on 1 July.

The U.S. Department of Agriculture has conferred Distinguished Service Awards on the following.

Henry L. Ahlgren, director, Wisconsin Extension Service.

Edward C. Crafts, assistant chief, Forest Service.

Gladys G. Gallup, director, Extension Research and Training.

Herbert L. J. Haller, assistant to the administrator, Agricultural Research Service.

Edward F. Knipling, director, Entomology Research Division.

William D. Termohlen, retired agricultural attaché to Japan.

Harry C. Trelogan, assistant administrator, Agricultural Marketing Service.

Nicholas V. Feodoroff, of the School of Engineering of Manhattan College in New York, lectured on the hydraulics of broad-crested weirs at the Technological University in Delft, Holland, during June.

Martin Lessen, professor of applied mechanics and chairman of the Division of Engineering Mechanics at the University of Pennsylvania, will become chairman of the mechanical engineering department of the Univer-

sity of Rochester in September. **Helmut D. Weymann**, assistant research professor at the Institute for Fluid Dynamics and Applied Mathematics of the University of Maryland, has been named associate professor of mechanical engineering at Rochester.

John Gordon Torrey, associate professor of botany at the University of California, Berkeley, became professor of botany at Harvard University on 1 July.

Allan M. Butler and **Felix G. Fleischner** will retire from the faculty of medicine and from their hospital positions at Harvard University, on 31 August. Butler, chief of the Children's Medical Service at Massachusetts General Hospital, will become professor of pediatrics, emeritus; Fleischner, radiologist-in-chief at the Beth Israel Hospital, will become clinical professor of radiology, emeritus.

Six specialists in polar exploration and research shared the first incentive award of the National Science Foundation. The award was made to the following in recognition of their efforts in administering the foundation's post-IGY program in the Antarctic.

Henry S. Francis, Jr., executive assistant to the chief scientist, Antarctic Research Program.

Thomas O. Jones, head of the chemistry department of Haverford College, Haverford, Pa.

Kendall N. Moulton, administrator in the Antarctic for the foundation and for the Polar Operations Project of the U.S. Weather Bureau.

Philip M. Smith, foundation representative on the Bellinghausen Sea penetration by Navy ships in the Antarctic.

George R. Toney, program officer with the U.S. National Committee for the IGY.

Mortimer D. Turner, geological researcher and scientific program planner for antarctic research.

Gustave J. Dammin, professor of pathology at the Harvard Medical School and director of the commission on parasitic diseases of the Armed Forces Epidemiological Board, became president of the board on 1 July. **Harry Most**, professor and chairman of the department of preventive medicine of New York University's School of Medicine succeeded him as director of the commission.

Robert W. Cahn, a metallurgist at the University of Birmingham (England), has been named visiting professor of physics at Temple University, Philadelphia. Cahn will conduct a seminar for graduate students and will also collaborate with **Ralph Feder**, research physicist at Frankford Arsenal's Pitman-Dunn Laboratories, on a metal alloy project.

Edwin E. Moise, professor of mathematics at the University of Michigan, has been appointed the James Bryant Conant professor of education and mathematics at Harvard University.

Rudolph L. Minkowski, astronomer at Mt. Wilson and Palomar observatories, retired on 1 July after 25 years as a member of the two staffs. His recent research has centered on attempts to locate optically objects in space that emit radio waves. Minkowski, who had over-all charge of the Palomar Sky Survey, is a member of the National Academy of Sciences. In the fall he will be visiting professor of astronomy at the University of Wisconsin, Madison.

Henry W. Harris, chief of medical service at the Veterans Administration Hospital in Salt Lake City, will become professor and chairman of the department of medicine at the Women's Medical College of Pennsylvania on 1 September.

George P. Vennart, assistant professor of pathology at Columbia University, is now associate professor of pathology in the School of Medicine of the University of North Carolina.

Ralph M. Dreger, director of the Duval County (Fla.) Child Guidance and Speech Correction Clinic, has been named professor of psychology at Jacksonville University.

Chauncey G. Goodchild, parasitologist and chairman of the department of biology at Emory University in Atlanta, has been appointed Charles Howard Candler professor of biology at Emory.

Frank H. Westheimer, organic chemist and chairman of the chemistry department at Harvard University, became Morris Loeb professor of chemistry on 1 July. Westheimer succeeded **R. B. Woodward**, who has been named Donner professor of science.

Henry B. Linford, professor of chemical engineering at Columbia University, has been named to receive the 1960 Edward Goodrich Acheson gold medal and \$1000 prize of the Electrochemical Society.

Douglas M. Surgenor, assistant professor of biological chemistry at Harvard Medical School, has been appointed professor and head of the department of biochemistry at the School of Medicine, University of Buffalo.

Esther M. Conwell, physicist at the General Telephone and Electronics Laboratories in Bayside, N.Y., received the achievement award of the Society of Women Engineers at its 1960 convention in Seattle. She was cited for her solid-state research, which began in 1943 when she worked out the theory of scattering of electrons by ionized impurities with Victor F. Weiskopf.

Recent Deaths

Hal T. Beans, Palisades, N.J.; 83; professor emeritus of chemistry at Columbia University; 8 July.

Hugh H. Bennett, Burlington, N.C.; 79; former chief of the U.S. Soil Conservation Service; conservation pioneer who retired in 1952 after 50 years of government service; 7 July.

James E. Church, Reno, Nev.; 90; internationally known meteorologist and professor at the University of Nevada; originator of snow survey techniques and the inventor of the snow sampler; late 1959.

Carroll E. Cox, College Park, Md.; 49; professor of plant pathology, department of botany, University of Maryland; researcher and writer on the mechanism of action of fungicides; 24 June.

Eric Ellenbogen, Marseilles, France; 39; associate professor of biochemistry in the Graduate School of Public Health, University of Pittsburgh; on leave, 1959-60, to conduct polypeptide research at the Weizmann Institute, Rehovoth, Israel; 29 May.

Wilfred H. Manwaring, Palo Alto, Calif.; 88; professor emeritus of bacteriology and experimental pathology at the Stanford University School of Medicine; 3 July.

Erratum: In column 1 of Table 1 of the report "Osmotic pressure and aqueous humor formation in dogfish" by R. F. Doolittle, C. Thomas, and W. Stone, Jr. [*Science* 132, 36 (1960)], the parenthetical statement after osmotic pressure should have been milliosmoles instead of mm-Hg.