

## Announcements

A survey of factors governing **birth defects** has been instituted by the national Commission on Drug Safety. The study aims to outline current knowledge on infant malformation and to determine new areas for investigation. Recommendations made by the panel are to be used in a Commission report on factors governing drug safety. Joseph Warkany, a fellow at Children's Hospital Research Foundation, Cincinnati, Ohio, has been appointed head of the study group. Further information can be obtained from the Commission (221 N. LaSalle St., Chicago 1, Ill.)

Cerro Tololo, a 7400-foot mountain in northern Chile, will be the site of an **astronomical** research center supported by the National Science Foundation. The Association of Universities for Research (AURA) has received a \$1-million NSF grant to build and operate the observatory, which will house a 60-inch telescope—the largest in the southern hemisphere to be regularly available for North American scientists. Plans also call for a 36-inch telescope, and a cooperative teaching agreement by which astronomers and students at the University of Chile will receive special consideration in observing time and training. The observatory will be linked by radio with the AURA-operated Kitt Peak National Observatory, Tucson, Ariz. Director of the Cerro Tololo facility will be **Jurgen Stock**, formerly with the McDonald Observatory, Ft. Davis, Tex.

The National Registry of Deaths from **Mycetism** maintains a file of deaths from ingestion of wild mushrooms, since 1957. Physicians are requested to notify the Registry of such deaths, including the patient's age, sex, date of death, and locality. (R. W. Buck, Massachusetts Medical Society, 22 The Fenway, Boston 15)

The American Society for Testing and Materials now requires inclusion of metric equivalents for **standards specifications** in all its publications. The Society advocates publication of both present units and their metric equivalents, and, in developing new standards, the use of quantities or tolerances that can be converted conveniently into metric values.

The National Academy of Sciences has organized a panel to estimate the probable needs for major **astronomical facilities** within the next decade. The eight-member committee, headed by Albert E. Whitford, director of Lick Observatory, Mt. Hamilton, Calif., is to recommend to the federal government a set of general principles and estimates of cost for promoting the advance of all branches of astronomy. The panel's scope will cover possible imbalances in federal support of astronomy of independent and university-connected observatories and the needs of astronomy in terms of manpower and the use of new devices.

U.S. astronomers are invited to contribute their comments on the subject of the inquiry. (Albert E. Whitford, Committee on Government Relations, NAS, 2101 Constitution Ave., NW, Washington 25)

### Meeting Notes

A symposium on **stochastic models in medicine and biology** is scheduled for 12–14 June at the University of Wisconsin. The conference is sponsored by the Mathematics Research Center, U.S. Army, at the university. It will present developments and comparisons of stochastic models, relative to biological and medical investigation. (J. Gurland, Mathematics Research Center, U.S. Army, University of Wisconsin, Madison 6)

Approximately 200 technical papers will be presented at the international symposium on **humidity and moisture**, scheduled for 20–23 May, in Washington, D.C. The conference will cover fundamentals, standards, detectors, and applications and control of humidity in science, industry, agriculture, and medicine. It is sponsored jointly by the National Bureau of Standards, the Weather Bureau, the Instrument Society of America, the American Meteorological Society, and the American Society of Heating, Refrigerating and Air-Conditioning Engineers. (A. Wexler, National Bureau of Standards, Washington 25)

An international conference on biochemical and immunological aspects of **host-parasite relationships** is scheduled for 23–25 April, in New York. The program, under the auspices of the New York Academy of Sciences, will

include 30 invited papers on adaptation of parasites to the host, factors governing growth, and host responses to the parasites. Reservation forms and copies of the program are available. (T. C. Cheng, Department of Biology, Lafayette College, Easton, Pa.)

The **AAAS Laurentian Hormone Conference** is scheduled for 1–6 September, in Mont Tremblant, Quebec, Canada. Deadline for receipt of applications to attend: *10 May*. (Committee on Arrangements, 222 Maple Ave., Shrewsbury, Mass.)

### Summer Institutes

Kansas State University, 1–26 July, **radiation shielding**. The program is in cooperation with the U.S. Department of Defense, Office of Civil Defense. Includes shielding against residual radiation from nuclear weapons, and initial neutrons and gamma rays. Topics will be covered in theory and experimentation. (W. R. Kimel, Department of Nuclear Engineering, Kansas State University, Manhattan)

Fisk University, 13–23 August, **infrared spectroscopy**, including fundamentals, interpretation, and techniques. (Director, Fisk Infrared Institute, Fisk University, Nashville 8, Tenn.)

Winona State College, Minn., 17–26 July, **chemistry and physics** for secondary school teachers; includes introduction to modern physics and principles of chemical reactivity. (R. Wendland, Winona State College, Winona, Minn.)

American University, 24 June to 9 August, recent advances in **chemistry and physics**, for secondary school teachers. Lectures and laboratory work will be on campus, and research, at neighboring laboratories. (L. Schubert, chairman, Chemistry Department, American University, Washington 16)

Columbia University, 1 July to 9 August, in **space research**, for students with 3 years of college work in mathematics or physical sciences. The course will discuss fundamental concepts in theoretical physics and their applications to current problems in astronomy and geophysics. A maximum of 40 participants will be selected, in national competition. They will receive

grants from Columbia, in cooperation with NASA, that will include tuition, a \$60 subsistence allowance, and cost of round-trip travel from the student's residence to New York. (Robert Jastrow, Department of Geology, Columbia University, New York 27)

Pratt Institute, 8 July to 16 August, **chemistry** for high school teachers. Forty teachers will be selected for the program, on the basis of previous education and training. (John Michael O'Gorman, 1963 Summer Institute in Chemistry, Pratt Institute, Brooklyn 5, N.Y.)

### Courses

Iowa State University's preventive psychiatry committee will sponsor the fourth institute on **preventive psychiatry**, 26-27 April at the university, Iowa City. Topics to be covered include influences during the fetal and neonatal periods, achievement motivation in adolescence, personal interactions, and marriage and family conflicts. Emphasis will be on "recent investigations in creative approaches to environmental stress." (W. D. Coder, State University of Iowa, Iowa City)

Tulane University now offers a graduate program in **biostatistics**, leading to the Ph.D. degree. The program, headed by Robert F. Lewis, biostatistics professor in the university's medical school, is designed to offer training in the application of mathematics and statistics to biology, medicine, and public health.

The University of North Carolina will offer a cooperative training program on **statistics in the health sciences**, 17 June to 26 July, under an NIH grant. Courses will be offered at various academic and experience levels. Stipends are available for qualified persons. (Summer Session, Department of Biostatistics, School of Public Health, University of North Carolina, Chapel Hill)

A seminar on **pictorial data processing** and pattern recognition is scheduled for 19-26 August at Yeshiva University, New York. It will include lectures and workshops on pictorial image quality, redundancy, encoding, analysis, and synthesis. (A. Rosenfeld, Belfer Graduate School of Science, Yeshiva University, New York 33)

Teachers College, Columbia University, will train teachers, under the **Afro-Anglo-American program**, for service in African secondary schools and teachers' colleges. The course consists of one academic year of graduate study, divided between Columbia and the University of London Institute of Education. Academic credit will be given at Columbia for work completed during this program.

Applicants must hold the bachelor's degree. Prior teaching certification is helpful, although not a prerequisite for acceptance into the course. Costs will include approximately \$775 for tuition; \$1250, living expenses; and \$275, travel from New York to London. Twelve fellowships are available through Carnegie Foundation support. (K. W. Bigelow, Teachers College, Columbia University, New York 27)

### Films

**Harvest**; 28 minutes, color; free loan. Experiences of scientists and governments in developing a practical technical assistance program in agriculture. Sponsored by the Rockefeller Foundation, the film sketches both background of the foundation's program and the long-range needs, especially in Mexico and other parts of Latin America. (Office of Publications, Rockefeller Foundation, 111 West 50 St., New York 20)

**Pioneers of Space** (27 minutes; 16 mm; free loan). The Glenn-Carpenter space flights; records the astronauts' reactions, crucial moments in flights, and previews of future space explorations. (Regional Libraries, Association Films, Inc., Ridgefield, N.J.)

**Operation Freeze-Up** (25 minutes; 16 mm; color). Freezing of lakes in a zone extending from Manitoba, Canada, to southern Wisconsin. Shows the climatological implications, and changes within the "transition zone," of cloud form and distribution, surface albedo, and atmospheric turbulence. (Bureau of Audio-Visual Instruction, 1312 W. Johnson St., University of Wisconsin, Madison 6)

**What Is Ecology?** (11 minutes, color; No. 1916, \$120; black and white, No. 1917, \$60). Introduces the study of ecology by illustrating the interrelationships between plants, animals, and their environment. (Encyclopaedia Britannica Films, Inc., 1150 Wilmette Ave., Wilmette, Ill.)

### Grants, Fellowships, and Awards

The Institute of Electrical and Electronics Engineers has issued a call for papers for the 10th international symposium on **reliability and quality control**. The meeting is scheduled for 7-9 January 1964, in Washington, D.C. Applicants must submit ten copies each of their paper's abstract and a brief biographical sketch of the author or authors. Deadline: 15 May. (L. S. Gephart, Lockheed Missiles and Space Co., Dept. 64-01, Bldg. 104, Sunnyvale, Calif.)

Grants are available for university **lecturing or research** in Australia, New Zealand, and Latin America for the 1964-1965 year, through the U.S. government's Fulbright-Hays Act. Applicants must be U.S. citizens. Lecturers must have taught in a college at least 1 year; researchers need a Ph.D. degree or recognized professional standing. Deadline for receipt of applications: 15 April. (Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Ave., NW, Washington 25)

Traineeships for research and development in **biomedical communication** are available through the Institute for Advancement of Medical Communication. Applicants should have a background in the biological, physical, or social sciences, or extensive experience with information services for scientists or physicians. Stipends are flexible. (Richard H. Orr, IAMC, 9650 Wisconsin Ave., Bethesda 14, Md.)

Travel and subsistence grants are available for attendance at a summer program in **marine microbiology** at the University of Miami, 17 June to 26 July. The program is under sponsorship of the university's institute of marine science, and supported by the National Science Foundation. Applicants must be teachers of science. (C. H. Oppenheimer, Institute of Marine Science, 1 Rickenbacker Causeway, Miami 49, Fla.)

The National Association for Retarded Children is accepting nominations from medical school deans for the first **Grover F. Powers award**. The 5-year, \$25,000 research grant will be presented to a senior member of a medical college clinical department

who is "an outstanding clinician, teacher, and scholar with a deep interest in the problems of mentally retarded children and their families."

The grant is in honor of the first chairman of the Scientific Research Advisory Board, NARC. Deadline for receipt of nominations: *1 May*. (G. Dybwad, NARC, Inc., 386 Park Ave. S., New York, N.Y.)

Grants are available for individual **fundamental research in petroleum**, under an experimental program initiated by the American Chemical Society's Petroleum Research Fund. Applicants must have been on the regular teaching staff of a college or university for not more than 3 years, and have no outside research support at the time the PRF grant is accepted. They must have completed all requirements for the Ph.D. degree, although the grant may be awarded before the receipt of the degree. Recipients of the grants must have the opportunity to carry out research at their institutions and must do so individually.

Grants are \$1500, not renewable, and are intended primarily for supplies, apparatus, and analyses. Deadline for receipt of applications: *1 July*. (K. Dittmer, Petroleum Research Fund, American Chemical Society, 1155 16 St., NW, Washington 6)

## Scientists in the News

The U.S. Atomic Energy Commission citation has been presented to **Eric Jette** for his work as leader of the chemistry and metallurgy division, Los Alamos Scientific Laboratory. He was cited for "meritorious contributions to the mission" of the AEC, while he was at Los Alamos between 1945 and 1956.

**Melvin W. First**, formerly at M.I.T., has been named associate professor of applied industrial hygiene at Harvard University's school of public health.

**Louis H. Muschel**, chief, department of serology at Walter Reed Army Institute of Research, has been appointed associate professor of microbiology at the University of Minnesota.

**Theodore J. Wachowski**, clinical professor of radiology, University of Illinois, has become president of the American College of Radiology.

**Walter Barton**, superintendent of Boston State Hospital, has been named director of the American Psychiatric Association, effective 1 April.

**Howard J. Teas**, head of the agricultural biosciences division, University of Puerto Rico Nuclear Center, has become program director for metabolic biology in the National Science Foundation's division of biological and medical sciences. He is on a 2-year leave of absence from the university.

**William M. Mullins**, metallurgical engineering professor at Carnegie Institute of Technology, has received the Mathewson gold medal from the Metallurgical Society, American Institute of Mining, Metallurgical and Petroleum Engineers.

At the University of Chicago, **Eckhard H. Hess** has become chairman of the psychology department. **Donald W. Fiske** has been named associate chairman of the department.

**Jerry Donohue**, chemistry professor at the University of Southern California, has been appointed chairman of the department of chemistry.

**Daniel Swern**, chemist at the U.S. Department of Agriculture, has been named "Federal Civil Servant of the Year" by the Federal Business Association of Philadelphia. He was honored for his "contributions to the fundamental chemistry of fats, and for products and processes widely used throughout the plastics industry which have stemmed from his research."

**Jack Matthews**, head of the speech department and director of the graduate program in audiology and speech pathology, University of Pittsburgh, has been elected president of the American Speech and Hearing Association.

**Augustus Gibson**, formerly with the Merck Sharp and Dohme Research Laboratories, Rahway, N.J., has become director of research at the Schering Corporation, Bloomfield, N.J.

**Leon H. Schmidt**, director of the Christ Hospital Institute of Medical Research, Cincinnati, Ohio, and research professor of biological chemistry, University of Cincinnati, has become director of the primate center at the University of California, Davis.

**Frederick N. Andrews**, head of Purdue University's department of animal sciences, has been named vice president for research, and dean of the graduate school, effective 30 June. He succeeds **Ernest C. Young**, who will retire at that time.

**Ko Kuei Chen** this month became professor of pharmacology at the Indiana University School of Medicine, Indianapolis, upon his retirement. He had been director of the pharmacological research division at Eli Lilly and Co.

## Recent Deaths

**Harry A. Allard**, 83; retired scientist at the Department of Agriculture and co-discoverer of photoperiodism; 25 Feb.

**Gordon A. Alles**, 61; pharmacology professor at UCLA; 21 Jan.

**Lourens G. M. Baas-Becking**, 68; former director of the Botanical Garden, Bogor, Java, and later, member of CSIRO, Canberra, Australia; 6 Jan.

**Lionel F. Brady**, 83; research associate, geochronology laboratories, University of Arizona, Tucson; 25 Feb.

**Gilbert Christenson**, 45; assistant chief of the NIH Clinical Center's anesthesiology department; in a crash of a private plane, near Greenville, S.C., 1 Mar.

**Essie White Cohn**, 61; 1961 chairman of AAAS section on chemistry; 5 Mar.

**Jerome H. Ely**, 38; vice president of Dunlap and Associates, Inc., Stamford, Conn.; 26 Feb.

**Alexander Geiger**, 62; neurophysiology professor, University of Illinois medical college; 14 Jan.

**Ludwig J. Mayer**, 52; scientist at General Mills and developer of the electron mirror microscope; 11 Feb.

**Rawley M. Penick**, 64; professor of surgery at Tulane University and senior surgeon at Ochsner Clinic, New Orleans; 21 Feb.

**Wilbert E. Stevenson**, 63; chairman of the board, Machlett Laboratories, Springdale, Conn.; 6 Mar.

**Stephen Taber**, 80; former head of the geology department, University of North Carolina; 9 Feb.

**Erratum:** In the report "Potassium-argon dating of plutonic bodies in Palmer Peninsula and southern Chile" by M. Halpern [*Science* 138, 1261 (1962)], the age calculated for sample 2 (H-62-14) was  $100 (\pm 20) \times 10^6$  years, rather than  $100 (\pm 20) \times 10^5$  years, as indicated on page 1262 (column 1, line 27).