

Announcements

The National Bureau of Standards and the University of Colorado have established a **Joint Institute for Laboratory Astrophysics** at Boulder, Colo., which will concentrate on advanced research and training in areas of physics and astrophysics considered vital to the U.S. space program. Initial emphasis in astrophysics will be on stellar atmospheres, gaseous nebulae, and the interstellar medium. Basic principles in atomic physics, statistical physics, fluid mechanics, and gas dynamics will also be emphasized. In fluid physics, the primary objectives will relate to aerodynamics through the area of hypersonic aerodynamics treated from the microscopic point of view.

Lewis M. Branscomb, chief of the NBS Atomic Physics Division, is chairman of the council that will direct the institute's activities until January 1964.

The **American Institute of Electrical Engineers** and the **Institute of Radio Engineers** have announced plans to merge, effective in January. The merged organization, totaling 160,000 members, will be known as the Institute of Electrical and Electronic Engineers.

Information on marine, freshwater, desert, and other **zoological laboratories** located in North America is being solicited for inclusion in a special issue of the *American Zoologist*. This issue, to be devoted exclusively to such laboratories, is planned in connection with the 15th International Congress of Zoology (Washington, D.C., 20-27 Aug. 1963). (Secretariat, International Congress of Zoology, National Academy of Sciences, 2101 Constitution Ave., Washington 25, D.C.)

Meeting Notes

A symposium on advances in **radio-isotope scanning** will be given from 22 to 26 October in Oak Ridge, Tenn. Enrollment is limited to 40 participants. (Ralph M. Kniseley, Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tenn.)

A symposium on the **"living state,"** encompassing the major fields of medicine, biology, physics, chemistry, geology, and mathematics will be held

from 10 to 12 October in Cleveland. Jointly sponsored by Western Reserve University and the University Hospitals of Cleveland, the symposium will take place in conjunction with the dedication of the John Schoff Millis Science Center and the Joseph Treloar Wearn Laboratory for Medical Research at University Hospitals. (Dedication Committee Office, Allen Memorial Library, Room 305, 11000 Euclid Ave., Cleveland 6, Ohio)

A 3-day unclassified symposium on **physics and nondestructive testing** will be held from 2 to 4 October in San Antonio, Tex. Papers will cover any physical research which may be adapted to the determination of material properties by nondestructive methods, including ultrasonic transducers, ultrasonic imaging and propagation in rods and wires, neutron radiography, scintillation and absorption-edge spectroscopy, Hall effect, and material properties. (Warren J. McGonnagle, Dept. of Electronics and Electrical Engineering, 8500 Culebra Rd., San Antonio 6)

Publications

The following series of reports on the **effects of nuclear radiation** on various materials and devices are currently available:

Electronic components (PB 171 965, \$2)

Semiconductor devices (PB 171 964, \$1)

Protective coatings (PB 171 962, \$1.50)

Elastomeric and plastic materials (PB 171 960, \$1.50)

Lubricants and hydraulic fluids (PB 171 957, \$2)

Silicone elastomeric and plastic materials (PB 171 967, \$2.50)

Semiconductor materials (PB 171-955-1, \$1)

They may be obtained from the Office of Technical Services, U.S. Department of Commerce, Washington 25, D.C.

Results of 1962 **geologic, hydrologic, and topographic findings** by the U.S. Geological Survey have been published by the Department of the Interior. The 59-paper volume, similar to others published in 1960 and 1961, presents research results promptly after completion of the investigations. Other chapters will be released at about 3-month in-

tervals during the remainder of the year. (Superintendent of Documents, Government Printing Office, Washington 25, D.C. \$1.25. Order professional paper 450-B)

A quarterly newsletter on activities directed toward improving the **public understanding of science** is being published by the AAAS in collaboration with the Council for the Advancement of Science Writing. The newsletter, titled *Understanding*, will cover science activities of professional societies, government organizations, educational institutions, mass media, industry, and museums. (E. G. Sherburne, AAAS, 1515 Massachusetts Ave., NW, Washington 5, D.C.)

Courses

A course on theoretical and instrumental **optical emission** and **x-ray emission spectroscopy**, as related to direct-reading instrumentation, will be offered from 1 to 5 October in Dearborn, Michigan. The main topics of instruction include origin of spectra, excitation sources, spectrometer design concepts, data recording and detectors, equipment details and maintenance, methods and techniques, and related laboratory experiments. Tuition is \$200. (Applied Research Laboratory, 20200 W. Outer Drive, Dearborn 8, Mich.)

An advanced course in **interpretation of complex arrhythmias**, intended for experienced electrocardiographers, will be given from 3 to 8 December in Chicago. (Secretary, Cardiovascular Institute, Michael Reese Hospital and Medical Center, 29th Street and Ellis Ave., Chicago 16, Ill.)

Recordings

Dr. Edward Teller; 12-inch, long-play, \$5.95 (order No. SAR 13). Discussions on "the size and nature of the universe" and "relativity."

The Conquest of Space; 12-inch, long-play, \$5.95 (order No. SAR 14). William L. Lawrence, Pulitzer-prize winning science editor of the *New York Times*, discusses the interdependence of science and technology. (All of the above records are available from Curriculum Materials Center, 5128 Venice Blvd., Los Angeles 19, Calif.)

Scientists in the News

William S. Rodney, research administrator in the Air Force Office of Scientific Research, has been appointed acting program director for regional science support in the National Science Foundation's Office of International Science Activities.

Robert S. Carlson, of North American Aviation's autonetics division, Anaheim, Calif., has been appointed director of space and weapon systems at Ford Motor Company's Aeronutronic Division, Newport Beach, Calif.

Recent staff additions at Internuclear Company, Clayton, Mo.:

William W. Baber, formerly an engineer with General Atomic, appointed acting head of the instrumentation group.

Charles G. Long, formerly a mechanical engineer with the U.S. Atomic Energy Commission, appointed an associate mechanical engineer.

Thomas G. Gerding, former professor of pharmacy at Purdue University, has been appointed senior development pharmacist at Pitman-Moore Company, a division of the Dow Chemical Company, in Indianapolis, Indiana.

At Harvard University:

Benjamin D. Paul, associate professor of social anthropology, will be on leave during the 1962-63 academic year as a fellow at the Center for Advanced Study in the Behavioral Sciences, Stanford, Calif.

George G. Simpson, Alexander Agassiz professor of vertebrate paleontology, has received the gold medal of the Linnaean Society of London.

Elkan R. Blout, vice president and general manager of research for Polaroid Corporation, has been appointed professor of biological chemistry. He will continue to serve as a consultant to the firm's research program.

Eugene Wall, technical director of Documentation, Incorporated, has been appointed director of information for the Engineers Joint Council, New York.

George F. Metcalf, of the General Electric Company, has been named vice-president for engineering at the Martin Company, Baltimore, Md.

Kenneth R. Veraska, formerly with Eastman Kodak Company, Rochester, N.Y., has joined the Research Analysis Corporation, Bethesda, Md., as an analyst in the computing laboratory.

Dean E. Seefeld, of the Chemstrand Corporation, Pensacola, Fla., has joined the inorganic and high temperature materials research division of Bjorksten Research Laboratories, Madison, Wisconsin.

J. W. Chamberlain, associate director of Yerkes Observatory and professor of astronomy at the University of Chicago, has been appointed associate director, space division, of the Kitt Peak National Observatory, Tucson, Arizona.

Recent staff appointments at Electro-Optical Systems, Inc., Pasadena, Calif.:

Robert Munk, of Ryan Aeronautical Corporation, San Diego, has been named chief scientist in the advanced electronics and information systems division.

Richard W. Ziemer, of Northrop Corporation Plasma Laboratory, has been named senior scientist in the fluid physics division.

Leland G. Cole, vice president for research at Beckman Instruments, Inc., Fullerton, Calif., has been named board director and vice president for research and engineering at Telecomputing Corporation, Los Angeles.

Loyal V. Bewley, dean of Lehigh University's College of Engineering, has resigned to return to the General Electric Company, Schenectady, N.Y.

Recent faculty additions at the University of Kentucky College of Medicine:

Helmut A. Gordon, previously with the University of Notre Dame's Loubund Laboratories, appointed professor of pharmacology.

Thomas C. Moore, associate professor of surgery at Indiana University Medical School, appointed professor of surgery.

Benjamin F. Rush, assistant professor in surgery at Johns Hopkins Medical School, appointed associate professor of surgery.

Henry Tesluk, associate director of laboratories at Virginia Mason Hospital, Seattle, appointed associate professor of pathology.

Gilberto Bernardini, directorate member for research at CERN, Geneva, has been appointed to the chair of physics at the University of Rome, effective next spring. He is succeeded by **G. Puppi**, director of the Institute of Physics, University of Bologna, Bologna, Italy.

Richmond S. Paine, of Harvard Medical School, has been appointed professor of pediatric neurology at George Washington University and director of the Children's Hospital Birth Defects Center, Washington, D.C.

Julio C. Davila, research director of Presbyterian Hospital, Philadelphia, has been appointed clinical professor of surgery and chief of the newly created thoracic and cardiac surgical section at Temple University School of Medicine.

Recent Deaths

Robert A. Arens, 72; director of the x-ray department at Michael Reese Hospital, Chicago; 31 May.

Richard O. Belkengren, 49; associate professor of plant physiology at Oregon State University; 9 June.

S. M. Dietz, 69; emeritus professor and former head of the department of botany and plant pathology at Oregon State University; 6 May.

John Van N. Dorr, 91; chemical engineer and founder and emeritus chairman of Dorr-Oliver Incorporated, Stamford, Conn.; 29 June.

Cecil C. Fletcher, 58; health engineer in charge of the U.S. Public Health Service's shellfish program; 2 July.

Ruth Howorth; textile chemist and associate editor of Applied Publications of the American Chemical Society; 1 July.

Edwin G. Kerans, 52; chief of dental service at Mount Alto Hospital, Washington, D.C.; 23 Apr.

Frederick G. Krauss, 92; emeritus professor of agronomy at the University of Hawaii; 4 June.

George E. Morin, 38; associate professor of oral surgery at the Georgetown University School of Dentistry; 2 July.

Jean Vrydagh, 57; entomologist and subdirector of the laboratory at the Royal Institute of Natural Sciences, Brussels; 30 May.