

Fuel Research Laboratories. The latter will not only serve the corporation but will also do contract work for private industry and government agencies.

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Irvington House and New York University have signed a joint agreement to establish the Irvington House Institute for Rheumatic Fever and Allied Diseases as a part of NYU-Bellevue Medical Center. The institute will be housed in the new University Hospital. Irvington House will underwrite the cost of \$500,000 toward the construction of the treatment, research, and clinical facilities. Irvington House, at Irvington-on-Hudson, N.Y., is a hospital and research center for children afflicted with heart diseases. The establishment of the institute will create what is believed to be the largest research center of its type in the world.

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A dry-land "ocean" that duplicates the environment found two nautical miles deep in the sea is under construction at Chester, N.J., by the Bell Telephone Laboratories for long-term testing of underwater cables. The simulated ocean, an 8-foot wide concrete trough, is 315 feet long and buried 7 feet under the ground. This assures reasonably constant earth temperatures the year round. The trough will be filled with water maintained at an ocean-bottom temperature of 37°F.

### Grants, Fellowships, and Awards

*Arctic.* McGill University, Montreal, Canada, has announced the Carnegie Arctic Scholarships. Under a program supported financially by the Carnegie Corporation of New York, certain scholarships are offered to students possessing a bachelor's or master's degree or equivalent. These scholarships are tenable at McGill and are normally offered to students proceeding to a doctoral degree in a subject calling for active field research in Arctic or Subarctic North America. Candidates who do not intend to proceed to a degree are not necessarily disqualified. Such subjects as anthropology, bacteriology, botany, geography (including glaciology and meteorology), geology, genetics, parasitology, psychiatry, sociology, and zoology (including marine biology) will be considered, and successful candidates will be enrolled in one of these departments.

The scholarships are normally tenable for 1 year and renewable for a second year. Ordinarily they provide \$1500 for the academic session, and \$1250 for the expenses of a summer's field expedition. If renewed for a second session the scholarships are increased to about \$1750.

Applications should be submitted to

the Secretary of the Carnegie Arctic Program, McGill University, 539 Pine Ave. W., Montreal, P.Q., Canada, and should include a confidential recommendation of the candidate's qualifications in his or her selected field and a clear statement of the intended arctic or subarctic research project. No particular form is required when applying for these scholarships. Applications for session 1959-60 must reach Montreal by 1 March 1959.

*Educational testing.* The Educational Testing Service, Princeton, N.J., will offer two visiting associateships in test development for the summer of 1959, one in mathematics and one in science. The associateships will give experienced teachers an opportunity to study testing problems in relation to goals of instruction. The stipend will be \$700 and reimbursement for transportation to and from Princeton. Both associates will make critical analyses of existing test specifications and test questions, suggest improvements, and work on the preparation of new tests. They will work on tests at the college-entrance and higher levels.

The visiting associate in science should have a strong background in chemistry, physics, or biology. Training in more than one of these sciences is desirable. The associate should have four or more years of teaching experience in college or in secondary school, or in the two combined. The visiting associate in mathematics should have a strong background in modern mathematics. Four or more years of college teaching experience is required. Applications must be submitted by 27 February 1959. Requests for application forms and all inquiries should be addressed to: Mrs. W. Stanley Brown, Test Development Division, Educational Testing Service, 20 Nassau St., Princeton, N.J.

*Meteorology.* The University Committee on Atmospheric Research has announced the establishment of ten fellowships for graduate study in the atmospheric sciences. These fellowships are made possible by a grant from the Alfred P. Sloan Foundation, Inc., of New York City. The fellowships carry a stipend of \$4000 each and will be awarded for the 1959-60 academic year. The fellowships are tenable at any accredited institution that offers a graduate program in the physical sciences of the atmosphere—meteorology and closely related fields. Applicants should have a baccalaureate degree (or expect to receive their degree by August 1959) with a major in one of the physical sciences, meteorology, geophysics, mathematics, or engineering. Applications must be received by 28 February. Application forms and further information may be obtained from the University Committee on Atmospheric Research, P.O. Box 3297 MSS, Tallahassee, Fla.

### Scientists in the News

DON K. PRICE, dean of the Graduate School of Public Administration, Harvard University, and former vice president of the Ford Foundation, has been elected to the AAAS Board of Directors, effective 15 January. He will complete the term of Chauncey D. Leake, who has been voted president-elect of the Association.

MAURICE BENDER, assistant chief, standards inspection and certification unit, U.S. Bureau of Commercial Fisheries, has joined the Division of General Medical Sciences at the National Institutes of Health as a public health research program analyst. He will be concerned with the administration of the research grant program of the division.

AMOEZ I. CHERNOFF, formerly associate professor of medicine at the Duke University School of Medicine and chief of the hematology section, Veterans Administration Hospital, Durham, N.C., has joined the staff of the University of Tennessee Memorial Research Center as research professor.

DAN YUN LEE, formerly an electronic design engineer at the University of California Radiation Laboratory, Livermore, has recently joined the Systems Engineering Program, Nucleonics Division, U.S. Naval Radiological Defense Laboratory, San Francisco, Calif.

HENRY KRITZLER, resident naturalist, has left the Fort Johnson Marine Biological Laboratory, Charleston, S.C., to be resident naturalist of the Lerner Marine Laboratory, Bimini, Bahamas, British West Indies.

At the Harvard School of Dental Medicine, JAMES T. IRVING has been appointed professor of anatomy and ALEXANDER C. KERR has been named associate in physiology in the Forsyth Dental Infirmary. Irving joins Harvard from the University of the Witwatersrand, Johannesburg, Union of South Africa, where since 1954 he has been professor of experimental odontology and director of the Joint Dental Research Unit of the Council for Scientific and Industrial Research. Kerr has served for the past 2 years as honorary junior lecturer in physiology at Guy's Hospital, London, England.

WILLIAM K. LINVILL, project leader for the Institute for Defense Analysis, Washington, D.C., has joined the staff of the Rand Corporation, Santa Monica, Calif., where he will serve as a member of the senior staff of the Engineering Division's electronics department. From 1947 to 1956, Linvill was

associate professor of electrical engineering at Massachusetts Institute of Technology.

LAWRENCE E. BRENNAN has also joined the senior staff of the Rand electronics department. Since November 1956 he had served as a member of the senior systems staff with the Systems Laboratories Corporation in Sherman Oaks, from which he was on loan to the Office of Naval Research, Washington, D.C., as a consultant on the Marine Air Defense Project.

OTTO STRUVE, chairman of the department of astronomy at the University of California, Berkeley, has been elected a corresponding member of the French Academy of Sciences in Paris.

HERBERT J. MUELLER, formerly a physicist at the University of Vienna, Vienna, Austria, has joined the staff of the Basic Research Group at the U.S. Army Engineer Research and Development Laboratories, Fort Belvoir, Va. He will serve as assistant chief of the Group, which makes laboratory determinations of general, special, and chemical properties of selected metastable substances in the solid, liquid, and gaseous states. The Group also determines the influence of controlled electric magnetic, electromagnetic, and particle field conditions on these properties.

JOHN C. BAILAR, JR., professor of inorganic chemistry at the University of Illinois, took office on 1 January as president of the American Chemical Society. He succeeds CLIFFORD F. RASSWEILER, vice president for research and development of the Johns-Manville Corporation, New York. The new ACS president is widely known for his contributions to chemical education and to inorganic chemistry.

ARNOLD V. WOLF, chief of the renal section of the department of cardiorespiratory diseases at the Walter Reed Army Institute of Research in Washington, D.C., has been appointed head of the department of physiology, University of Illinois College of Medicine. He succeeds GEORGE E. WAKERLIN, who resigned last April to become medical director of the American Heart Association. Wolf is noted for his research in the physiology of thirst and in artificial kidneys.

FRANK C. HAPPOLD, professor of biochemistry and chairman of the department, Medical School, University of Leeds, England, is serving until April as visiting research professor in the department of bacteriology, University of Florida. He is participating in research on tryptophane metabolism of marine bacteria and in various graduate activi-

ties. During his stay in the United States he will be visiting other institutions, including the University of Pennsylvania and Rutgers University.

ROBERT L. BLACKWELL was appointed director of the U.S. Sheep Experiment Station and Western Sheep Breeding Laboratory, Dubois, Idaho, effective 5 January. He succeeds JULIUS E. NORDBY, who retired recently. Blackwell has been an associate professor of animal husbandry at New Mexico Agricultural and Mechanical College, where his research has been in animal breeding with sheep and beef cattle.

MERVIN J. KELLY, chairman of the board of Bell Telephone Laboratories, has been named by the National Security Industrial Association to receive its 1958 James Forrestal Memorial Award. Kelly will deliver an address at the NSIA Forrestal Dinner on 29 January at the Sheraton-Park Hotel, Washington, D.C., when he will receive a gold medal and citation. In World War II Bell Laboratories was converted almost completely to military research and development and carried out more than 1200 projects for the Armed Forces.

FRANK M. CARPENTER, chairman of the biology department at Harvard University, is the new president of Sigma Xi, national scientific honorary fraternity. Carpenter is an entomologist whose studies on the comparative structure of living and fossil insects has helped to reconstruct the past 250 million years of insect life. He is curator of fossil insects at Harvard's Museum of Comparative Zoology.

ALLISON K. SIMONS, director of engineering and research for the Bostrom Corporation of Milwaukee, Wis., has received the national gold medal award of Pi Tau Sigma, honorary engineering society, for the most outstanding achievement in mechanical engineering within 10 years of graduation. The award was presented on 4 December in conjunction with the annual meeting of the American Society of Mechanical Engineers. Simons has specialized in the man-machine relationships affecting the comfortable, stress-free seating of drivers of trucks, tractors, and earth-moving equipment. With A. H. Easton of the University of Wisconsin, Simons developed electronic instrumentation that permitted the study of vibration and shock transmission to the human body through vehicular seating.

ELLISON C. SHUTE has been appointed manager of the Atomic Energy Commission's San Francisco Operations Office at Oakland, Calif. Shute, who has been deputy manager of the San Fran-

cisco office since January 1956, will succeed HAROLD A. FIDLER, who will accept a position as assistant to the director of the Ernest O. Lawrence Radiation Laboratory, University of California, Berkeley.

ALBERT L. ELDER, director of research of the Corn Products Company, Argo, Ill., and a specialist in medicinal chemicals, proteins, and starches, has been chosen president-elect of the ACS. He will head the society in 1960.

LAUCHLIN M. CURRIE has been elected a vice president of the Babcock & Wilcox Company and placed in charge of the Atomic Energy Division. To accept the new post, Currie retired as a vice president of the Union Carbide Nuclear Company, a division of the Union Carbide Corporation.

## Recent Deaths

HOWARD C. ARNOLD, Pittsburgh, Pa.; 67; engineer with the Federal Enameling and Stamping Company from 1934 until his retirement this year; ceramic engineer with various firms from 1919 to 1930; 27 Sept.

DAVID C. GRAHAME, London, England; 46; professor of chemistry at Amherst College, who was spending a year on a Guggenheim fellowship at the University of Bristol, England; instructor in chemistry at the University of California, Berkeley, before joining Amherst College in 1939; staff member of Massachusetts Institute of Technology's Radiation Laboratory in 1945; taught summer school at Harvard University in 1948; 11 Dec.

MARTIN S. MAIER, Lancaster, Pa.; 64; nuclear physicist and since 1949 head of the physics division, research and development department, U.S. Asbestos Division of Raybestos-Manhattan, Inc., Manheim, Pa.; was engaged in a study of radiation effects on asbestos and asbestos products at the time of his death; head of the physics department at Sterling College (Kansas), 1933-39; research assistant with the Battelle Institute, Columbus, Ohio, 1940-44; and a senior physicist with Eastman Kodak Company, Rochester, N.Y., 1944-49; 23 Dec.

WILLIAM SCHRIEVER, Norman, Okla.; 64; professor of physics at the University of Oklahoma and chairman of the physics department, 1942-52; had been a faculty member since 1919; first president of Sigma Xi at the university; 20 Nov.

PERCY H. WILLIAMS, New York, N.Y.; 83; gynecologist and obstetrician; chief of staff at Lenox Hill Hospital, 1927-45; director of gynecology at Lincoln Hospital, 1924-34; 31 Dec.