

ard Courant, director of the Institute. Located in a nine-story building near Washington Square, the Institute operates in three interlocking divisions concerned respectively with mathematics and mechanics, mathematics research (mainly electromagnetic field phenomena), and numerical analysis (including AEC contract work carried on with the UNIVAC computing machine and a research and training program in new computing techniques). The Institute also issues a quarterly journal, *Communications on Pure and Applied Mathematics*, put out by Interscience Publishers, Inc. Future plans call for expansion of the Institute's interest in probability and mathematical statistics and a strengthened program of mathematical physics.

The Boulder Laboratories of the National Bureau of Standards were formally dedicated on September 14, with President Eisenhower doing the honors. The \$4 million laboratory, under the over-all direction of Frederick W. Brown, houses two major NBS activities, the Central Radio Propagation Laboratory and the Cryogenic Engineering Laboratory. The CRPL consists of three divisions, devoted to radio propagation physics, radio propagation engineering, and radio standards, directed by Ralph J. Slutz, Kenneth A. Norton, and Harold A. Thomas, respectively. The cryogenics laboratory, sponsored jointly by NBS and the Atomic Energy Commission, is headed by Russell B. Scott and includes liquid hydrogen and nitrogen plants. Two conferences accompanied the dedication of the new NBS facility, one dealing with radio propagation and standards and the other with cryogenics.

Education and Research

The University of Delaware has announced the establishment of a curriculum leading to a doctoral program in physics. The Delaware physics department staff of seven includes specialists in microwave and radio-frequency spectroscopy and in theoretical nuclear physics. The latter field has been strengthened by the addition this year of Sydney Meshkov, who holds a PhD from the University of Pennsylvania, as an assistant professor. The department chairman is William V. Smith.

Formal dedication of the recently established Andre Meyer department of physics at New York City's Mount Sinai Hospital took place November 8th. Paul C. Abersold, director of the AEC's isotopes division at Oak Ridge, was the principal speaker. The department has been active since last spring.

Johns Hopkins University has announced that the recently constructed engineering building, which completes the group of major buildings on the main Quadrangle of the campus, has been named Ames Hall in honor of the late Joseph S. Ames, a noted physicist who served as president at Hopkins for five years prior to his retirement in 1935. He died in 1943 at the age of 78. A former president of the American Physical Society (1919-20), he received his PhD in physics at Hopkins in 1890, joined the faculty the following year,

became a full professor in 1899, was director of the physics laboratory for a quarter of a century until his appointment as provost in 1926. He became president in 1929. According to University spokesmen, the astrophysics and electrical engineering departments had already moved into the new Ames Hall by November and it was anticipated that all departments would be completely installed before the first of the year. Formal dedication of the building, which cost \$1.5 million, will be held sometime in the spring.

A graduate program of study and fundamental research in plastics has been announced by Princeton University. The curriculum covers the properties, evaluation, production, fabrication, design, and application of materials, and the chemistry of plastics. Contact with industrial plants representing various interests of the plastics industry is included in the program. Fellowships with stipends of from \$1500 to \$2500 (plus tuition and fees) and research assistantships with stipends of \$1500 per academic year are available. For further information write to Louis F. Rahm, Director, Plastics Laboratory, 30 Charlton Street, Princeton, New Jersey.

A research participation program at the Oak Ridge National Laboratory under which university faculty members will conduct research in physics, chemistry, metallurgy, biology, mathematics, and engineering has been announced by the Laboratory and the Oak Ridge Institute of Nuclear Studies. Faculty members may perform their research for periods ranging from three months to a year, with stipends approximating their university salaries. Applications should be submitted six months prior to the proposed time of starting work. Forms and further information may be obtained from the University Relations Division, Oak Ridge Institute for Nuclear Studies, P.O. Box 117, Oak Ridge, Tennessee.

Plans for the International Geophysical Year, scheduled for 1957-58, have already produced a tangible result in the embarkation of a Navy icebreaker on a five-month expedition to the Antarctic for preliminary scientific measurements. Besides making observations in meteorology, cosmic rays, oceanography, radio communication, and glaciology, the personnel of the USS *Atka* will examine sites for research stations in the Antarctic to be occupied during IGY. It is hoped that information obtained during the expedition will provide a realistic basis for the detailed IGY program in that region.

Publications

A new style guide, *Mathematics in Type*, has been issued for the use of "authors, editors, and others concerned with the preparation and economical production of books and articles containing mathematical expressions". Written "from a printer's viewpoint", the 58-page booklet includes sections on monotype and other methods of composition, mathematical symbols and

rules for their setting and spacing, preparation and marking of manuscripts and proof, styling suggestions, and kinds and sizes of type. An introductory section summarizes those characteristics of mathematical material which most often are responsible for difficulty and expense of composition (i.e., variety and nature of symbols, requirements for justification of type, and condition of the original manuscript). *Mathematics in Type* is published by The William Byrd Press, Inc., 1407 Sherwood Avenue, Richmond, Virginia, and is priced at \$3 per copy (50% discount to educational institution staff members).

A new quarterly, *The Journal of Nuclear Energy*, is being published by the Pergamon Press of London with J. V. Dunworth, J. Guéron, and G. Randers as editors. The journal is intended to contain papers dealing with the scientific, engineering, biological, and economic aspects of nuclear engineering, and the first issue, which has already appeared, contains articles from the establishments at Harwell (England), Kjeller (Norway), and Saclay (France). Annual subscriptions are 90s., and single issues are 25s.

Another new British journal is *Communications and Electronics*, a monthly publication designed "to show other specialists what telecommunication and electronic systems can do, rather than how they work". One of the early issues demonstrates this thesis by dealing with such diverse subjects as aviation navigational aids, color television, transistors, automatic computers, and safety at sea. The journal is published by Heywood and Co., Ltd., Drury House, Russell Street, London, W. C. 1. The annual subscription is \$6.00.

The Atomic Energy Commission, in an effort to help industry judge its interest in technological developments in the atomic energy program, has issued a series of unclassified background bibliographies of selected AEC reports. Titles and abstracts of some 800 unclassified research and development reports were chosen from the nearly 9000 unclassified AEC reports released prior to July 1953 and have been grouped in convenient categories. The entire set can be purchased (cost: \$2.25) from the Office of Technical Services, Department of Commerce, Washington 25, D. C., or the following individual sections can be ordered separately: Part I, *Metallurgy and Ceramics* (35¢); Part 2, *Chemistry and Chemical Engineering* (45¢); Part 3, *Nuclear Technology* (35¢); Part 4, *Electronics and Electrical Engineering* (35¢); Part 5, *Mechanics and Mechanical Engineering* (25¢); Parts 6 and 7, *Construction and Civil Engineering and Mining and Geology* (25¢); and Parts 8 and 9, *Industrial Management and Health and Safety* (25¢). Current unclassified reports likely to be of interest to industry are now listed in a series of separate AEC releases entitled "Nuclear Notes for Industry" rather than being included in *Nuclear Science Abstracts* as was formerly the case. Organizations wishing to receive these current listings should write to the Industrial Information Branch, U. S. Atomic Energy Commission, Washington 25, D. C.

*To those qualified
in the techniques of*

PLASTICS

*as applied to the
field of advanced*

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ENGINEERS or
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familiar with non-metallic materials are required to plan, coordinate, and conduct special laboratory and field test programs on missile components. These men should have experience in materials development, laboratory instrumentation, and the design of test fixtures.

RESEARCH CHEMIST

The Plastics Department of the Microwave Laboratory has need for an individual with a Ph.D. Degree, or equivalent experience in organic or physical chemistry, to investigate the basic properties of plastics. The work involves research into the properties of flow, the mechanisms of cure, vapor transmission, and the electrical and physical characteristics of plastics.

HUGHES

Scientific and Engineering Staff

RESEARCH AND DEVELOPMENT LABORATORIES
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