the Board of Governors will be selected. Additional sponsoring and cooperating societies are welcome and it is expected that others will support the new journal in the future. The business management is being undertaken by the American Institute of Physics and the printing will be done at the University of Toronto Press.

Professor Chalmers will be advised and assisted in his editorial chores by the following associate cooperating editors in various countries: Harvey Brooks (North America); Alan Cottrell (United Kingdom); P. Laurent (France); P. Coheur (Belgium); W. G. Burgers (Holland); G. H. H. Wassermann (Germany); E. Rudberg (Sweden); W. Boas (Australia); Antonio Scortecci (Italy). Additional associate editors for other areas will be appointed by the editor in the near future.

Requests for further information should be addressed to *Acta Metallurgica*, 57 East 55th Street, New York 22, New York.

Michigan Mathematical Journal

A new medium for publication of mathematical research is to appear under the above title, also in January. The journal, which will be issued semiannually, is to be published in lithoprinted form by the University of Michigan Press, and since close cooperation between author and typist is called for, articles are in general expected to be contributed by authors living in or near Ann Arbor. All inquiries should be addressed to *Michigan Mathematical Journal*, Mathematics Department, 3012 Angell Hall, University of Michigan, Ann Arbor, Michigan.

A Cornell Experiment

Televised Physics Teaching

Cornell University has announced a program for the televising of laboratory experiments in freshman and sophomore physics courses, an innovation that is expected to give students a better view of experiments, and instructors more opportunity to explain them. The main lecture room in Rockefeller Hall has been equipped to permit experiments to be televised from the instructor's desk to a viewing screen visible from all corners of the room, according to Lloyd P. Smith, chairman of the Cornell physics department. The television setup will be used to demonstrate phenomena such as Brownian movement, light interference, surface tension, and the behavior of high-energy particles in a cloud chamber. Planned with the cooperation of the Radio Corporation of America, the program will be carried out with the help of a midget RCA television camera which has been made available on loan. Faculty members who will use the equipment are Guy E. Grantham, F. L. Moore, Jr., Herbert F. Newhall, and D. H. Tomboulian.

Miscellany

The National Science Foundation has contracted with the National Academy of Sciences for a broad survey to determine the nature and extent of research and of teaching in applied mathematics in the United States. The survey, to be carried out with the cooperation of the Office of Naval Research, the Office of Ordnance Research of the Army, and the Office of Scientific Research of the Air Force, is expected to take one year. As part of the study, a conference on training and research needs in applied mathematics will be held during the spring of 1953 to consider the findings of the survey and to examine the future of research and teaching in the field. Data and recommendations of the survey and the conference will be made available to all agencies.

The Atomic Energy Commission's committee of senior reviewers, established six years ago to advise the AEC on the classification and declassification of scientific and technical information, has been increased from four to six members. The new members are R. H. Crist (Carbide and Carbon Chemicals Company), J. R. Richardson (University of California at Los Angeles), Thomas B. Drew (Columbia University), and John P. Howe (Knolls Atomic Power Laboratory). Previous committee members Warren C. Johnson (University of Chicago) and J. M. B. Kellogg (Los Alamos) have been reappointed. The two other members of the original committee, W. F. Libby (University of Chicago) and R. L. Thornton (University of California), requested that their resignations be accepted because of the press of other duties.

Case Institute of Technology has accepted an Air Force contract to study causes of adhesion. The project, directed by Case chemists J. E. Rutzler, Jr. and R. L. Savage, will be carried out by a team of workers which includes one physicist, S. M. Skinner, former chief scientist with the Air Research and Development Command's Office of Scientific Research.

A soundproof and echo-free ("anechoic") chamber for determining and calibrating the performance of all types of radio communications equipment has been installed at the Air Research and Development Command's Wright Air Development Center at Dayton, Ohio. Modeled after the sound chamber in Harvard University's Cruft Laboratory, the new facility was built at a cost of $35,000 for use in the Center's communications and navigation laboratory.

Argonne National Laboratory's new sixty-inch constant-frequency cyclotron, intended for use in Argonne's chemistry division, is reported to be in operation. Designed, constructed, and installed and adjusted to full performance by the Collins Radio Company of Cedar Rapids, Iowa, the machine is designed to accelerate deuterons to an energy of 22 Mev.

Neptunium 237, the long-lived isotope of element 93, has been isolated in extremely small amounts from pitchblende, it was reported to the American Chemical Society at Atlantic City in September. Heretofore undiscovered in a natural state, the neptunium sample was obtained by researchers at the Argonne National Laboratory whose work was described in a paper presented by Donald F. Peppard of Argonne. The isotope was first discovered ten years ago at the University of Cali-

fornia, where it was artificially produced with the aid of the Berkeley cyclotron. Last year, another artificially-produced element, plutonium, was found to exist naturally in minute amounts.

Industry

The Atomic Energy Commission has accepted a proposal by a fifth industrial group, the Pioneer Service and Engineering Company of Chicago and the Foster Wheeler Corporation of New York, to conduct, during the next year, a survey of the feasibility of design, construction, and operation by private industry of power-producing reactors. AEC and Pioneer Service-Foster Wheeler are now negotiating on details of the agreement.

Industrial participation in nuclear research is also under discussion in Great Britain, presumably in connection with the possible development and operation of power reactors. British efforts in the direction of civil applications of atomic energy are at present the responsibility of the atomic energy establishment at Harwell, but it has been reported that government hearings have been held to explore the merits of an industrial program.

Nuclear Research and Development, Inc., of St. Louis, Missouri, has opened a branch laboratory and office in Long Island City, New York which will offer the same nuclear physics consultation and isotope service to hospitals and industry in the metropolitan New York area as the parent group provides in St. Louis.

Cornell University has announced a program designed to provide closer cooperation between the university and industrial concerns whereby the Avco Manufacturing Corporation, B. F. Goodrich Company, Chesapeake and Ohio Railroad, Johns-Manville Corporation, Philco Corporation, Raymond Concrete Pile Company, and the Tuller Construction Company will be able to benefit from research carried on at Cornell's nineteen academic divisions and seven interdepartmental research centers.

The University of Pittsburgh is expanding its cooperative program with local companies whereby graduate students are enabled to gain work experience in industry while completing their academic requirements. An increase was forecast both in the enrollment under the program and in the number of participating industrial concerns.

Education

Radio Corporation of America has awarded six RCA fellowships, two in physics and four in electrical engineering, to provide assistance for predoctoral graduate students, at designated universities, who display outstanding ability in fields of study related to radio, television, and electronics. Mitchell S. Cohen (Cornell) and Edgar Lipworth (Columbia) will do graduate work in physics. Those working toward a doctorate in electrical engineering are Peter H. Lord (Princeton), Hardy C. Martel (Caltech), Oscar Oliver, Jr. (NYU), and Edward W. Schwarz (Illinois).

Ten George Westinghouse four-year scholarships, valued at $3170 each, will be offered to outstanding high school seniors next spring for study at the Carnegie Institute of Technology in physics, chemistry, industrial management, or in several categories of engineering. Requests for application forms should be made before December 1st. The address is: Chairman of Admissions, Carnegie Institute of Technology, Pittsburgh 13, Pennsylvania.

Mandelein College, Chicago, has received a grant from Research Corporation for support of research on the determination of alkali metals in foods by means of the flame photometer, a project which is being undertaken this fall by Sister Mary Therese, B.V.M., chairman of the physics department.

New York University has announced a program to bring the sciences of meteorology and oceanography together under a single department in the NYU College of Engineering at University Heights. Formal curricula leading to the master's and doctor's degrees became effective at the opening of the academic year in September. Bernhard Haurwitz, head of the department, has pointed out that oceanographic research has been carried out at NYU for a number of years in cooperation with other research groups and under the sponsorship of various agencies of the Army and the Navy.

The University of Chicago is offering three $4000 post-doctoral fellowships in statistics to holders of the doctor's degree or its equivalent in research accomplishment in order to acquaint established research workers in the biological, physical, and social sciences with the role of statistics in the planning of experiments and in the analysis of empirical data. The closing date for applications is February 1, 1953; additional information may be obtained from the Committee on Statistics, University of Chicago, Chicago 37, Illinois.

The Rockefeller Foundation, during the period 1919–1951, provided funds totaling $4,267,539 for fellowships administered by the National Research Council for the advanced training of some 1100 natural scientists.

Leigh Page, professor of mathematical physics at Yale University for the past thirty years, suffered a fatal heart attack on September 14th while visiting at the Randolph, N. H. home of a fellow physicist, Percy Bridgman of Harvard University. Professor Page, who was sixty-seven years of age, received his doctorate at Yale in 1913 and served as a member of the physics department faculty continuously from that time until his death. He had been a full professor since 1922. Best known for his work in the fields of electrodynamics and relativity, Professor Page was a member of the American Association of Physics Teachers and fellow of the American Physical Society and of the American Academy of Arts and Sciences. His son, astrophysicist Thornton L. Page, is a member of the University of Chicago faculty.