

Antonio, Tex.; 56; commandant of the Air Force School of Aviation Medicine; 17 Feb.

EDWIN A. LAWRENCE, Indianapolis, Ind.; 45; professor of surgery and cancer research at the Indiana University School of Medicine; 21 Feb.

JAMES B. MACELWANE, Saint Louis, Mo.; 72; geophysicist and dean of the Saint Louis University Institute of Technology; president of the American Geophysical Union; organizer of the Jesuit Seismological Association; vice president of AAAS section E in 1934; 15 Feb.

MEGHNAD SAHA, Calcutta, India; 62; nuclear physicist; director of the Nuclear Physics Institute; dean of science at Calcutta University; 16 Feb.

HANS J. SCHWARTZ, New York, N.Y.; 79; professor emeritus of dermatology at Cornell Medical School; 15 Feb.

MICHAEL M. WASSERMAN, New York, N.Y.; 73; assistant bacteriologist at Beth Israel Hospital; 20 Feb.

ROLLAND J. WHITACRE, Cleveland, Ohio; 46; president of the American Board of Anesthesiology and an internationally known specialist in that field; 16 Feb.

ALFRED M. WYMAN, Lebanon, Conn.; 78; retired civil engineer; 14 Feb.

## Education

■ DePaul University, in cooperation with Illinois Institute of Technology, has introduced a combined liberal arts-engineering program. The 5-year program, which will lead to the degrees of bachelor of arts and bachelor of science in engineering, begins next September.

■ Seven professional master's degrees in engineering have been authorized by the Cornell University trustees and will be offered by the Cornell Graduate School in a program beginning next fall. Through an engineering division in the Graduate School, Cornell will grant master's degrees in chemical, civil, electrical, industrial, mechanical, and metallurgical engineering, and in engineering physics. The university will continue to grant M.S. and Ph.D. degrees in engineering.

The professional programs are aimed especially at two groups—graduate engineers employed in industry, and outstanding students just finishing engineering school. For admission a student must hold a bachelor's degree from a recognized school of engineering or science, or have completed 4 years in Cornell's College of Engineering.

A newly created engineering division of the Graduate School, consisting of the graduate faculty in engineering, will have general control over the advanced pro-

fessional degree work. Each student will work out his program with a faculty adviser in his particular division of interest. Information on the program may be obtained from the Graduate School, Day Hall, Ithaca, N.Y.

■ Physicians from all over the United States are invited to attend an Armed Forces Institute of Pathology postgraduate course on diseases of the heart to be held in Washington, D.C., 14–17 May. The course will be open to a total of 425 civilian and armed services physicians. Civilians who desire to attend may apply to the Director, Armed Forces Institute of Pathology, Washington 25, D.C. Medical men in the armed forces should apply through normal military channels.

■ The American Chemical Society's Examinations Committee has announced two new tests for the 1956 testing program. A new test in organic chemistry, Form MB, has been prepared by the Organic Subcommittee under the chairmanship of Bernard A. Nelson, of Wheaton College. This is a test for the brief courses usually given in one semester.

The General Chemistry Subcommittee under the chairmanship of Donald D. Wright, of Brooklyn College, has prepared a new test in general chemistry, Form M. It consists of a section on information, one on application of principles, and one on equations and problems.

Further information and copies of all the tests may be obtained from Theodore A. Ashford, St. Louis University, St. Louis 4, Mo. These tests are available to members of the faculty of higher educational institutions. Please use official stationery and use the official channels of the college when making inquiries. A limited number of copies of older examinations is also available.

■ A tracer laboratory is being established in Cornell University's zoology department with the help of a \$20,000 grant from the National Science Foundation. William A. Wimsatt and his assistants will use the laboratory for detailed studies on the physiological make-up of bats and other mammals. The grant will contribute toward laboratory equipment and a 3-year research program.

One special piece of equipment, designed by Wimsatt, is a portable "cave" for hibernating bats that has a separate section for subjects that have been injected with radioisotopes. The insulated box will have the same 40-degree temperature and high humidity as the natural cave environment. Other laboratory equipment will include Geiger and scintillation counters, facilities for storing

radioactive material, and a darkroom for developing autoradiographs.

The Cornell laboratory will be used to study several problems concerning hibernating mammals that have never been thoroughly investigated. One project will be devoted to the connection between the bat's superior resistance to radiation damage and its low metabolic rate during hibernation. Other studies will be on the development of thyroid function in the unborn bat and on the way pregnant mammals transmit immunity against diseases to their offspring.

■ The University of Maryland has announced that the Institute of Acarology's summer session will be held 16 July–3 Aug. The course provides an opportunity for entomologists, parasitologists, zoologists, and advanced biology students to study mites and ticks. For information write to G. Anastos, Department of Zoology, University of Maryland, College Park, Md.

## Grants, Fellowships, and Awards

■ The Leukemia Society, Inc., will award grants to support research projects on leukemia for the year 1956–57. Various amounts will be awarded depending upon the requirements of the investigators.

Applications may be made throughout the year; however, in order to be reviewed at the meetings of the selection committee that will take place on 1 June and 1 Sept. they should be received *not later than 15 May and 15 Aug.*, respectively. For information, write to the Leukemia Society, Inc., 67 Wall St., New York 5.

■ The most serious difficulty encountered by the Russell Sage Foundation in its work for more effective collaboration between the social sciences and the professional services is the scarcity of trained personnel. In order to help meet this shortage, the foundation offers postdoctoral residencies in operating agencies or professional schools for the purpose of providing qualified sociologists, social psychologists, and anthropologists with specialized training and experience relevant to professional practice in health or welfare.

Applicants are eligible for consideration for appointment if they (i) have received the doctorate or will have completed all requirements for the doctorate in sociology, social psychology, or anthropology before the date on which the requested residency is to begin; (ii) are not more than 35 years of age; (iii) have records that clearly indicate superior ability; and (iv) are definitely interested in careers involving behavioral

science and professional practice in either health or welfare.

Appointments are made for one year with the possibility of renewal for one additional year. Awards may be made at any time during the year. Stipends range from \$3500 to \$5000.

The letter of application should explain in some detail the nature of the candidate's interests in a career of the kind indicated and the experience and training desired. The details of the work program and location of the residency requested need not be specified in the letter of application but will be arranged in the case of successful candidates in consultation with the foundation staff.

A brief biographical statement that includes the candidate's place and date of birth, marital status, educational record, employment experience, and titles of his published writing should be enclosed with the letter of application. The names and addresses of three to five persons from whom the foundation may request letters of reference should be given. Applications and requests for further information should be addressed to the Russell Sage Foundation, 505 Park Ave., New York 22.

■ Opportunities for training in the field of biostatistics leading to degrees up to the doctorate have become available through grants awarded by the National Heart Institute of the Public Health Service to departments of biostatistics in several schools of public health. With these grants the departments of biostatistics are able to offer stipends covering tuition and subsistence to acceptable candidates. The amounts of the stipends will vary with the qualifications and circumstances of the applicants.

Recipients of the awards will be expected to complete a course of study concerned with the application of statistical theory to research in biology, medicine, and public health. The background and interests of the student will determine the nature of the courses to be taken.

Additional information may be obtained from the departments of biostatistics in the schools of public health of the University of California, Berkeley; Columbia University; Harvard University; Johns Hopkins University; University of Michigan; University of Minnesota; University of North Carolina; University of Pittsburgh; and Tulane University School of Medicine.

■ The Menninger Foundation, Topeka, Kan., has available several postdoctoral fellowships in psychology. Stipends range from \$3900 to \$4800. In some cases \$350 dependency allowances are also offered. The application deadline for the clinical research fellowships is 1 May.

■ A special course on "Recent developments in physical science," with a correlated course on "The teaching of science," will again be offered for secondary-school science teachers by the Harvard Summer School and Graduate School of Education. Twenty DuPont fellowships of \$400 each are available for these courses, which will last from 2 July to 15 Aug. The courses are open to any interested and qualified teachers, whether or not they receive one of the fellowships.

In addition to these courses for secondary-school teachers, there will be a course on "Science in the elementary school" for teachers and supervisors on the elementary level. Teachers interested in applying for one of the fellowships may obtain an application blank from the Harvard Summer School, 2-N Weld Hall, Cambridge 38, Mass.

■ The American Chemical Society's division of history of chemistry has announced the establishment of the first national award for outstanding service in the field of the history of chemistry. The annual prize, which initially will comprise \$250 and a scroll, will be known as the Dexter Chemical Corporation Award in the History of Chemistry.

Selection of the recipient will be made by a three-member committee appointed by the chairman of the division. Among the types of contribution to the field that will be considered are the publication of a book or article on chemical history or furtherance of the teaching of the history of chemistry.

### In the Laboratories

■ The Corning Glass Works has announced establishment of a refractories division. The new division will consolidate the development, manufacture, and sale of conventional refractories, special high-temperature refractories and Corning Glascast mold material for precision casting of metal alloys.

■ An industry-Government commercial evaluation program of an irradiated food product for civilian and military markets is being directed jointly by the Army Quartermaster Corps and AMF Atomics, Inc., subsidiary of American Machine and Foundry Company, under a joint-agreement contract with the Quartermaster Food and Container Institute (Chicago) for the Armed Forces. Under the program several groups, coordinated by AMF Atomics Inc., will evaluate the application of gamma radiation to potatoes.

Some 70,000 pounds of potatoes, comprising a selection of several varieties from both Maine and Idaho, will be ir-

radiated at the Atomic Energy Commission's materials testing reactor at Idaho Falls, Idaho. The potatoes, before and after irradiation, will be shipped, handled, and stored under normal commercial conditions.

■ Completion of a new office building and test laboratory for research in gas turbine engines has been announced by Solar Aircraft Company, San Diego, Calif. The expansion was necessary because Solar has increased its engineering staff by 50 percent in the last year. Still more engineers are needed for the company's growing design and development programs.

■ A series of technical data bulletins on several classes of molybdenum chemicals is being prepared by Battelle Memorial Institute, Columbus, Ohio, under commission from the Climax Molybdenum Company. These bulletins will report the properties, methods of preparation, and applications of the following compounds: organic complexes of molybdenum, molybdenum disulfide, heteropolymolybdates, cyanomolybdates, and halides and oxyhalides of molybdenum.

### Miscellaneous

■ *The American Journal of Digestive Diseases*, which has been published since its founding in Fort Wayne, Ind., has been sold to Paul B. Hoeber, Inc., medical book department of Harper and Brothers. The new publishers began issuing the monthly clinical journal in January. It has appeared in a new format, under the supervision of a new editorial board that is headed by Henry Janowitz, chief of gastroenterology, Mount Sinai Hospital, New York, and Maxwell H. Poppel, chief of radiology at Bellevue Hospital, New York.

■ *International Atomics*, a bulletin service on commercial atomic energy developments, has recently been introduced by Whaley-Eaton Service, news analysts of Washington, D.C. The new report is issued twice monthly to business and Government clients. Information about *International Atomics* may be obtained from Whaley-Eaton Service, Munsey Bldg., Washington 4, D.C.

■ The Research Committee of the American Sociological Society has available a *1956 Census of Research* that lists all current projects reported, together with the names of the members of the society working on each project. The 65-page document may be obtained for \$1 a copy from the American Sociological Society, New York University, Washington Square, New York 3.