*Metrology* (W. Souder, chief): Basic length, mass, time, and capacity and density measurement, instrumentation, and standards problems constitute the bulk of activity. New secondary standards of mass, precision plain ring gages, and angle gage blocks, surface strain in plastic dentures, flow nozzles, precision ruling of circles, and thermal expansivity are some of the projects carried on.

*Chemistry* (G. E. F. Lundell, chief): A wide range of work in organic, analytical, and physical chemistry is performed, including carbon monoxide indicators, heats of formation of certain hydrocarbon compounds, fractionation and analysis of hydrocarbons in petroleum, standard samples of hydrocarbons, benzoic acid thermometric standard, and electrodeposition.

*Organic and Fibrous Materials* (A. T. McPherson, chief): High polymer research includes studies of the viscosities of dilute solutions of high polymers in solvent-precipitant mixtures, shape of long chain molecules, copolymerization reactions, and the interaction between polymers and liquids. Other typical projects include research on synthetic and natural rubbers, cellulose and cellulose derivatives, water-repellent fabrics, resin-bonded plywood, and performance of plastics.

*Mineral Products* (H. Insley, chief): Applied and fundamental research is conducted in porcelains, pottery, glass, refractories, enameled metals, concreting materials, masonry and reinforced concrete, lime and gypsum, and building stone. Specific investigations include ceramic coatings for high-temperature protection of low-carbon steel, concretes containing admixtures, exposure of concrete, new optical glasses, wool fibers, and the constitution of mineral products.

*Metallurgy* (J. G. Thompson, chief): Many studies in ferrous and nonferrous metallurgy are conducted, e.g. influence of boron on steels for armor plate, repair of porous castings, preparation of magnesium castings, resistance to corrosion of light metals for aircraft, stabilization of chromium-nickel steels, basic principles of powder metallurgy, X-ray metallography, and studies of gases in metals.

*Building Technology* (D. E. Parsons, chief): Simultaneous investigations of the properties of building materials, structural strength, fire resistance, acoustics and sound insulation, heating, ventilating, and air conditioning, durability and the exclusion of moisture, building and electrical equipment, and miscellaneous projects in the building field are carried on.

On Wednesday, September 15, those attending the Centennial Celebration will have an opportunity to tour the Bureau and other laboratories engaged in work in the physical sciences.

# *NEWS and Notes*

**Herbert R. Morgan** has been appointed associate professor of epidemiology in the Section of Public Health Laboratory Practice, School of Public Health, and assistant professor of internal medicine in the Medical School at the University of Michigan. Dr. Morgan has recently been working as senior fellow in virus diseases, NRC, at the Thorndike Memorial Laboratory of the Boston City Hospital.

**Hugh W. Terhune,** administrator of the Philippine Fishery Program of the Fish and Wildlife Service, has been appointed honorary adviser on fisheries to the Philippine Government by President Elipidio Quirino. In 1946 he was appointed to organize and administer the Philippine Fishery Rehabilitation Program.

**Robert J. Wherry,** vice-president of Richardson, Bellows, and Henry, consulting psychologists, has been appointed to the staff of Ohio State University's Psychology Department, effective October 1.

**Arthur Bevan,** principal geologist of the Illinois Geological Survey and chairman of the Division of Geology and Geography, National Research Council, is continuing during August his field research on the Pleistocene glaciation and geomorphic evolution of the northern Rocky Mountains. The customary field work in Montana will be supplemented this season by special studies in western Alberta and eastern British Columbia.

**William E. Gordon,** former research consultant for the Minneapolis Regional Office of the Social Security Administration, was recently appointed professor of research at the Nashville School of Social Work, graduate school for professional social workers which is operated cooperatively by Vanderbilt University and Scarritt and Peabody Colleges.

**Walton B. Sinclair,** staff member of the Division of Plant Physiology at the University of California Citrus Experiment Station, Riverside, for the past 15 years, was recently named head of the Division. Prof. Sinclair succeeds **E. T. Bartholomew,** head of the Division since 1935, who has retired.

**Victor A. Drill** was recently appointed professor of pharmacology at Wayne University College of Medicine. In his new position Dr. Drill is continuing his previous research in pharmacology and metabolic problems.

**Robert M. Chew,** of the University of Illinois, has been appointed to the staff of Lawrence College, Appleton, Wisconsin, as assistant professor of biology, effective in September.

**Nephi Albert Christensen,** dean of engineering at Colorado State College,

has been named director of the School of Civil Engineering at Cornell University, effective in September. Dr. Christensen will succeed **Carl Crandall,** who has served as acting director since the death of the late director, **William Lindsay Malcolm,** in January.

**Alfred H. Nadelman,** technical superintendent and chemist for the International Paper Company, will become head of the new pulp and paper technology curriculum to be inaugurated at Western Michigan College (Kalamazoo) in September.

**Jorgen M. Birkeland,** faculty member of Ohio State University since 1935, has been named head of the Bacteriology Department. Prof. Birkeland succeeds **William A. Starin** who has retired from his teaching duties after 38 years on the Ohio State staff.

**Carl A. Lawrence,** who has been director of the Bacteriological Control and Research Division of Winthrop-Stearn, Inc., since 1938, has been appointed assistant professor of bacteriology in the Medical School of the University of Michigan for the University year 1948–49.

## Grants and Awards

**Eugene J. Houdry,** of Ardmore, Pennsylvania, will be the recipient of the 1948 Potts Medal from The Franklin Institute at the traditional Medal Day ceremonies in Philadelphia on October 20. Richard T. Nalle, president of the Institute, will present the medal to Mr. Houdry "in consideration of his leadership in the development of catalytic cracking of petroleum that bears his name."

**The Arctic Institute of North America** recently announced the availability of an increased number of senior grants-in-aid for scientific work in the North American Arctic and Subarctic during 1949. Conditions remain the same as for the original grants-in-aid offered (see *Science,* May 21, 107). The grants-in-aid, which stipulate field investigations either in Alaska, northern Canada, Labrador, Newfoundland, or Greenland, are open to anyone who has demonstrated his ability to do research of superior quality in some field of science. Applications must be received by November 1, 1948. Forms may be obtained from: The Arctic Institute of North America, 805 Sherbrooke Street West, Montreal, Canada, or Audubon Terrace, Broadway and 156th Street, New York 32, New York.

## Colleges and Universities

**The University of Nebraska Foundation** has received from Mrs. Marybeth N. Brown, of Niagara Falls, New York, a gift of $93,000 to establish "The Mortimer Jay Brown Memorial Fund," in memory of her husband, who died on April 7, 1945. Income from the fund will be used for any or all of three general purposes in the field of chemistry: (1) graduate fellowships for basic or industrial research; (2) strengthening faculty competence in chemistry where the usual means for obtaining competence are not adequate; and (3) purchase of specialized equipment. Dr. Brown, a native Nebraskan, graduated from Nebraska in 1905 with a B.Sc. degree. He joined the research staff of Roessler & Hasslacher Chemical Co. in 1911 and was vice-president in charge of research at the time of his retirement in 1932.

**The Department of Metallurgy, Massachusetts Institute of Technology,** under a recent grant from the AEC research division, is currently expanding its studies on the application of radioactive tracer techniques to mineral engineering problems. The new program, to extend over a period of years, is expected to be of special value to the mineral industry and in the training of engineers in the use of radioactive tracers.

The advisory board directing the new project will consist of Antoine M. Gaudin, acting as supervisor; Bruce Old, of Arthur D. Little, Inc., and the AEC; Reinhardt Schuhmann, Jr.; John Dasher, of the Division of Industrial Cooperation; Robley D. Evans, Department of Physics; John W. Irvine, Department of Chemistry; and Martin J. Buerger, Department of Geology. H. Rush Spedden will act as executive officer.

**Cornell University** recently named the herbarium of its Department of Botany "The Wiegand Herbarium of Cornell University," in honor of the late Karl M. Wiegand, formerly head of that Department.

**The Physics Department, Stanford University,** has announced a number of personnel changes for the new academic year. Leonard I. Schiff, formerly associate professor, has been made professor and acting executive head of the Department. Paul H. Kirkpatrick, on sabbatical leave, will do research work at Stanford and Southern California, later serving as visiting professor at Bowdoin College for the spring term. Myron A. Jeppesen, on leave of absence from Bowdoin, has been appointed visiting professor of physics. W. Carl Barber, University of California graduate, and Martin E. Packard, Oregon State University, have been named instructors.

## Meetings

**The U. S. Delegation** to the 8th General Assembly of the International Union of Geodesy and Geophysics, to be held in Oslo, August 17–28, has been announced by the Department of State to consist of the following: Walter D. Lambert, chief, Section of Gravity and Astronomy, U. S. Coast and Geodetic Survey (chairman); Leason H. Adams, director, Geophysical Laboratory, Carnegie Institution; K. Hilding Beij, assistant director, Hydraulics Laboratory, National Bureau of Standards; Francis W. Reichelderfer, chief, U. S. Weather Bureau; and Waldo E. Smith, executive secretary, American Geophysical Union. It is expected that approximately 31 countries will participate in the Assembly. Among the subjects to be covered by papers presented at the meeting are physical aspects of the influence of solar activity on terrestrial magnetism, the ionosphere, magnetic surveys and instruments, airborne magnetism, terrestrial magnetism, and aurora.

**The 1948 National Industrial Chemical Conference** and **National Chemical Exposition** will be held concurrently at the Chicago Coliseum, October 12–16. Sponsored by the Chicago Section of the American Chemical Society, the program will include papers by leading authorities on sub-

jects of interest to all industrial executive and technical personnel. Topics for discussion include "Chemical Markets," "Chemistry in General Industry," "Hazards From Chemicals," "Management of Research," "Frontiers of Chemistry," and "Pilot Plant Use by the Chemical Industry." Special exhibits of interest to chemical workers will also be included.

A new feature of the Exposition this year will be a Technical Bureau manned by Ward V. Evans, retired chairman of the Chemistry Department at Northwestern University and now professor of chemistry at Loyola University. The Bureau is designed to assist firms which find it profitable to use industrial chemistry in their production and operation. Chemical Trail Blazers, which has been a popular feature of past Expositions, is to be repeated this year on an even larger scale.

**Advancing Textiles Through Research** will be the theme of the 27th national convention of the American Association of Textile Chemists and Colorists, to be held at the Sheraton Bon Air Hotel in Augusta, Georgia, October 21–23. In addition to a general technical meeting, which will take the form of a Cotton Symposium under the chairmanship of R. W. Philip, of the Research Division, Callaway Mills, LaGrange, Georgia, a series of technical papers will be presented at meetings of the Testing and Auxiliaries Group, the Textile Printing Group, the Noncellulosic Fibers Group, and the Hosiery Group. The presidential address will be given on the evening of October 23 by Henry F. Herrmann, of the General Dyestuff Corporation, New York City.

## Deaths

**James Alexander Miller,** 74, authority on tuberculosis and former professor of clinical medicine at the College of Physicians and Surgeons, Columbia University, died at his Black Point, Connecticut, home on July 29, following a brief illness. At one time Dr. Miller served as president of the National Tuberculosis Association and had also headed the American College of Physicians.

**John Marcus Evvard,** 63, research scientist and author, well known for his work in the development of iodized salt, died in Phoenix, Arizona, on July 30. Dr. Evvard had served for many years as a consultant on animal nutrition and production. He was at one time a special assistant in the Office of the Secretary of Agriculture and later became professor and head of the Department of Agriculture at Arizona State College.

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**A complete copy of the 2,500-year-old carved order of King Darius of Persia,** known as the "Rosetta Stone of Western Asia," will be made starting in October by George G. Cameron, leading an archaeological expedition sponsored by the University of Michigan and the American Schools of Oriental Research. Dr. Cameron, an associate of the Oriental Institute of the University of Chicago for 15 years, joins the University of Michigan faculty in September in an on-leave capacity until the completion of the Iranian project.

Two previous expeditions have made partial examinations of the Mount Behistun inscriptions. Dr. Cameron plans a re-examination of all the doubtful passages in these Elamite, Old Persian, and Babylonian inscriptions, together with a study of four additional columns of inscriptions which have never been read due to their inaccessibility. Expedition members will be lowered from a natural shelf, 300 feet above this sculptured panel, by means of steel cable and a scaffold. The cable and scaffold will also be used while a cast of the relief is prepared for a permanent replica to be housed in the Museum of Archaeology at the University of Michigan.

**The Office of Education,** Federal Security Agency, recently made available a 28-page directory of 600 sources of 16-mm films for teachers and school administrators. The directory, entitled "A Partial List of 16-mm Film Libraries," is available without cost from the Visual Aids Section of the Office of Education, FSA, Washington 25, D. C.

**The National Registry of Rare Chemicals,** 35 West 33rd Street, Chicago 16, Illinois, is currently interested in obtaining the following chemicals: 2,2-difluorohexane, oleanolic acid, samogenin, gitogenin, ethionic acid, bicyclo(2,2,1)-2-heptene, D-lupanine hydrochloride, titanium dichloride, boron sulfide, benzyl fluoride, petroselinic acid, uridine, xanthylic acid, inosinic acid, scandium, smilagenin, mexogenin, isopelletierine, and tungsten carbonyl.

**Correction:** It has been called to our attention that our announcement of the granting of the Third Intermediate Sugar Research Foundation Award to Leslie F. Wiggins (*Science*, May 14, p. 502) was incorrect in several respects. The Imperial College of Tropical Agriculture, mentioned in the item as being located in Kingston, Jamaica, and as having been "recently created," is actually located in Trinidad, B.W.I., and has been in existence for 27 years. We learn that it was founded as the West Indian Agricultural College in 1921 and that its name was changed to its present one in 1924. It was also stated in the announcement that Dr. Wiggins had been appointed research director at the College. His appointment was as director of sugar research under a new Sugar Research Scheme launched in 1947. We regret that these misstatements occurred.

## Make Plans for—

**American Society of Agronomy** and **Soil Science Society of America,** annual meetings, August 24–27, Fort Collins, Colorado.

**American Association of Blood Banks,** first annual meeting, August 26–28, Hotel Statler, Buffalo, New York.

**7th International Congress of Applied Mechanics,** September 5–11, Imperial College of Science and Technology, South Kensington, London, England.

**Mathematical Association of America,** 30th summer meeting, September 6–7, University of Wisconsin, Madison.

**Meteoritical Society,** September 7–8, Institute of Meteoritics, University of New Mexico, Albuquerque.

**International Rheological Congress,** organizational meeting, September 21–24, Scheveningen, Holland.