

generally are now able to obtain complete files of the scientific and technical journals received before the war.

As Continental Europe recovers from the war, and as more paper stock becomes available, scientific publishing should be resumed on a greatly increased scale. Avenues of communications are now being opened. The development of exchanges of scientific publications is most de-

sirable; closer relations between American scientists and those of foreign countries will make the international exchange of scientific information more widespread than would be possible if the exchanges were on an entirely commercial basis. American scientists, together with our academic institutions, can contribute much to the future peace of the world.

NEWS and Notes

On July 15 the steel ketch *Atlantis* sailed from Woods Hole, Massachusetts, its destination being the mid-Atlantic Ridge, some 1,200 miles east of Bermuda. On board were Maurice Ewing, of Columbia University, and a corps of assistants, who will survey the topography of the Ridge and attempt to discover the character of its rock and the nature and depth of its sedimentary covering. From the data accumulated by the expedition, which is sponsored by the National Geographic Society, Columbia University, and the Woods Hole Oceanographic Institution, these scientists hope to ascertain how and when the Ridge was formed.

The Ridge, with peaks rising over two miles above the ocean floor, stretches from Iceland almost to Antarctica. The depth of the portion under survey will be measured by echo-sounding—recording the time required for a sound wave produced at the ship to travel to the ocean floor and back, and utilizing the velocity of sound in water to calculate the distance to the bottom. In addition, cross sections of sediment will be collected by means of 10-foot-long steel tubes equipped with 850-pound lead weights, which will be dropped over the side. By this means the ages of the various layers may be determined and changes in the earth's magnetic field may be shown. But

these cores will sample only the most recent portion of the sediment. To determine the entire thickness sonic measurements will be used. Still another interesting piece of equipment is the Nansen bottle, which, when lowered, fills with water at any desired depth, water from other levels being kept out by a series of valves. These bottles enable the study of microscopic life and salinity far below the surface. A special under-sea camera perfected by Prof. Ewing and his students will also be used.

Reservations are available for several of the Chemical Research Conferences sponsored by the AAAS and being held this summer at Colby Junior College, New London, New Hampshire. Increase in facilities at the College has permitted a larger attendance than in previous years at Gibson Island.

Conferences for which reservations are available are: Medicinal Chemistry, July 21–25; Vitamins, July 28–31; Food and Nutrition, August 4–8; Cancer, August 11–15; and Instrumentation, August 18–22. Requests for attendance should be addressed to W. George Parks, Colby Junior College, New London, New Hampshire.

The final program for the Conferences was published in the May 2 issue of *Science*.

A National Science Foundation bill, H.R. 4102, introduced into the house by Rep. Wolverton of New Jersey on July 7 and reported out by the Committee on Interstate and Foreign Commerce, is scheduled for debate on the floor as *Science* goes to press. This bill, although carrying essentially the same provision as

S. 526, stipulates that the director shall be appointed by the Foundation of 24 members instead of being appointed by the President after consultation with the Foundation and approval by the Senate (see *Science* May 30). The bill omits specific mention of the social sciences and allotment of research funds to states. It authorizes establishment of special commissions on cancer research, heart and intravascular diseases, poliomyelitis, and such others as deemed necessary. Its patent provision prohibits individuals from obtaining patents for any invention resulting from their activities with the Foundation. Such individuals may, however, apply for patents to be assigned to the government or its nominee.

About People

E. A. Vuilleumier has resigned as dean of Dickinson College, Carlisle, Pennsylvania, in order to devote full time to his professorship of chemistry. Dr. Vuilleumier, who has been head of the Department of Chemistry since 1920 and dean since 1933, will be succeeded by **Russell I. Thompson** as dean.

Lorus J. Milne, who since 1942 has been working in the field of aviation medicine at the Johnson Research Foundation, University of Pennsylvania, has been appointed associate professor of zoology at the University of Vermont, effective in August.

J. H. Quastel, British scientist known for his work in enzyme chemistry, has been appointed professor of biochemistry at McGill University and associate director of the Montreal General Hospital Institute for Special Research and Cell Metabolism. Dr. Quastel will also serve as director of the enzyme research division of the Institute.

George W. Snedecor, director, Iowa State College Statistical Laboratory, since its establishment in 1933, and a member of the mathematics staff since 1913, retired from administrative duties July 1 but will continue as professor of statistics and as consultant to the Laboratory.

Grants and Awards

Iowa State College has been given a grant of \$300 from the China Foundation for reproduction of scientific articles for Chinese scholars, who have received almost no scientific publications from western countries since the beginning of the war. The Iowa State Library will direct the work of reproduction.

At the annual dinner of the **American Institute of Nutrition**, May 19, in Chicago, the Borden Award for 1947 was presented to **L. A. Maynard**, director, School of Nutrition, New York State College of Agriculture, Cornell University, for his significant contributions, both to the field of general nutrition and to the knowledge of the physiology of milk secretion, of factors affecting milk production and milk composition, and of the requirements of animals for dietary fats. The Mead Johnson and Company Award for Research on the Vitamin B Complex was given to **William J. Darby**, associate professor of biochemistry, Vanderbilt University School of Medicine, **Paul L. Day**, professor of physiological chemistry, University of Arkansas School of Medicine, and **E. L. R. Stokstad**, research chemist, Lederle Laboratories, for their discoveries and investigations in the field of the B-complex vitamins with special reference to their studies on the chemical nature and nutritional significance of folic acid.

At the 37th annual meeting of the **American Society for Pharmacology and Experimental Therapeutics**, held May 18-22 in Chicago, the John J. Abel Prize in Pharmacology was awarded to **George Sayers**, assistant professor of pharmacology, School of Medicine, University of Utah, in recognition of his paper, "The Pituitary-Adrenal System." The prize, of \$1,000 and a bronze medal, plus traveling expenses up to \$150, is awarded to a young man or woman working in a college or university by Eli Lilly and Company, for the purpose of stimulating fundamental research in pharmacology in the United States and Canada.

The **Order of the White Lion** was awarded to 17 Americans, June 3, in recognition of their services to Czechoslovakia last year. The awards were presented by Dr. Juraj Slavik, Czechoslovak Ambassador to the United States, on behalf of his Government, to the following members of the Unitarian Service Committee Medical Teaching Mission: Paul Dudley White, Harvard Medical School; Alexander Brunschwig, Cornell University College of Medicine; Ralph Waldo Gerard, University of Chicago; Emery A. Rovenstine, New York University College of Medicine; L. Emmett Holt, Jr., New York University College of Medicine; Leo M. Davidoff, Columbia Medical School; Colin Munro MacLeod, New York University College of Medicine; James E. M. Thompson, president, American Academy of Orthopaedic Surgeons; Joseph Charles Aub, Harvard Medical School; Joseph Francis Volker, Tufts College Dental School; Otto Krayner, Harvard Medical School; Joseph Peter Lazansky, Tufts College Dental School; Milan Alexander Logan, University of Cincinnati College of Medicine; Everett Dudley Plass, University of Iowa Medical School; Kenneth D. Miller, president, New York City Mission Society; and Mr. and Mrs. Waitstill H. Sharp, Boston.

The **Heyman Prize**, awarded every three years and alternating between literature and science, has this year been awarded to Docent **Börje Kullenberg** by the Göteborgs Högskola, in recognition of his distinguished work in constructing the piston core-sampler, which affords means for a new departure in submarine geology. The sampler was used very successfully during the *Skagerak* expedition to the western Mediterranean in the spring of 1946 and will be utilized also in the forthcoming Swedish deep-sea expedition with the *Albatross*. In 1941 the first science award was divided between Helge Backlund and Lennart von Post, eminent geologists.

Colleges and Universities

The **Agricultural and Mechanical College of Texas** has established a Department of Biochemistry and Nutrition which will include work and staff members that have previously been in three different departments. Paul B. Pearson, of the Nutrition Laboratory, has

been named head of the new department, which will become effective September 1.

New York University and **Stevens Institute of Technology** will jointly sponsor a new fluid dynamics program, to be opened in September. The course in fluid dynamics of aircraft, ships, and related bodies, inaugurated by the Graduate School of Stevens and the Graduate Division of the College of Engineering, New York University, will make possible a combination of theory and experimentation through the use of the wind tunnels at the Daniel Guggenheim School of Aeronautics and the towing tanks of Stevens.

Coordinated courses in mathematical methods, theoretical and applied hydro- and aerodynamics, experimental methods, and high-velocity gas dynamics will lead to a Master's degree. Enrollment in the course is limited for the first year to 15 students, chosen by the two colleges on the basis of the student's individual record.

The **Institutum Divi Thomae**, Cincinnati, Ohio, founded in 1935 as a graduate research school open to all scientists regardless of race, color, or creed, has recently received from the Donner Foundation, Inc., a \$150,000, 64-room building located in Palm Beach, Florida. The building, to be known as Donner Hall, will provide quarters for what is planned to be the largest marine biophysics laboratory in the world, for fundamental cancer research, and for visiting scientists who will be participating in various symposia.

At the 75th anniversary commencement of the **University of Arkansas** on June 9 Lewis Webster Jones, formerly president of Bennington College, was inaugurated president. Among those receiving the LL.D. degree was A. F. Blakeslee, of Smith College.

Summer Programs

The **Maxwell Graduate School of Syracuse University** has announced that during this summer it is sponsoring the Social Science Field Laboratory, conducted for over 10 years at Ukiah, California, by B. W. Aginsky, chairman, Department of Sociology and Anthropology, College of the City of New York, and Ethel Aginsky, Department of Anthropology, Hunter College. The program, sponsored by New York University

from 1938 to 1941, was suspended during the war. The full program, now resumed, includes special research training for eight selected advanced students from several universities. Although originally focused on the anthropological study of the Pomo Indians, it has now been broadened to include studies of the entire community of Ukiah and neighborhood, involving coordination and integration of all of the various social sciences. Its new official name is The Social Science Field Laboratory Institute Under the Auspices of the Maxwell Graduate School of Citizenship and Public Affairs. The director is B. W. Aginsky; the associate director, Ethel Aginsky; and the assistant director, Alfred P. Parsell, who teaches sociology at Hunter College.

Industrial Laboratories

Sharp & Dohme, Inc., announces that Karl H. Beyer, director of pharmacological research, Medical Research Division, sailed for England July 11 for a meeting with Sir Alexander Fleming, discoverer of penicillin, to discuss "Statin" Caronamide, his own discovery, and to attend the International Physiological Congress, Oxford University, July 21-25, where he has been invited to speak. Dr. Beyer also plans to attend the British Pharmacological Society Meeting, University of London, July 26.

Smith, Kline & French Laboratories have announced the association of Ivan H. Witt with the Organic Chemistry Section of their Research Department. Dr. Witt was formerly associated with the B. F. Goodrich Company.

G. H. A. Clowes, director emeritus, Lilly Research Laboratories, was honored by the American Diabetes Association at its annual meeting, June 7-8, at Atlantic City, New Jersey. Dr. Clowes delivered the annual Banting Memorial Address and was awarded the Banting Medal, given in recognition of distinguished service in the field of diabetes.

Eastman Kodak Company has offered to 16 educational institutions 22 fellowships in chemistry, physics, engineering, and business administration for the 1947-48 school year. The fellowships, established in 1939 to enable outstanding young scientists to do advanced work in scientific and engineering fields, have been offered each year except 1944-45. Of the

12 fellowships for doctoral work (\$1,200 each), one in physics and one in chemical engineering will go to Massachusetts Institute of Technology; one each in physical chemistry to Columbia, Rochester, and Yale Universities; to Harvard, Illinois, Nebraska, and Notre Dame Universities, in organic chemistry; to California Institute of Technology and the Universities of Michigan and Wisconsin, in physics. Ten fellowships for master's work, each of \$750, have been offered to Columbia, Michigan, Illinois, and Northwestern Universities (business administration); Carnegie Institute of Technology and Iowa State (mechanical engineering); Cornell University and Rensselaer Polytechnic Institute (electrical engineering); Cornell University and University of Michigan (chemical engineering). Six Tennessee Eastman awards include four at \$1,200 for doctoral work in chemistry at Brown University and the Universities of Tennessee, North Carolina, and Virginia, and two for master's work (\$750 each) in chemical engineering at Virginia Polytechnic Institute and in textile engineering at Georgia School of Technology. Selection of students is made by the recipient institution.

Meetings

The Purdue Section, American Society of Plant Physiologists, has announced that E. J. Lund, author of the recent *Bioelectric fields and growth*, will give a series of three lectures and additional round-table discussions on "Bioelectric Phenomena and Cell Correlations" at its summer meetings, which will begin with registration on the morning of July 24 and conclude with a botanical field trip through Turkey Run State Park, Friday afternoon, July 25. All those interested are invited to attend. Reservations and additional information may be secured from H. H. Kramer, Agronomy Department, Purdue University, Lafayette, Indiana.

The Australian and New Zealand Association for the Advancement of Science will hold its 26th meeting in Perth, August 20-27.

The 8th International Congress of Entomology will be held in Stockholm, Sweden, August 8-15, 1948. It is necessary that those planning to attend arrange for steamship passage early this fall,

since sailings are currently booked to capacity for months in advance. It is understood that the 13th International Congress of Zoology will be held in Paris in July 1948, and it is hoped that all entomologists going to Stockholm will plan to attend the Zoological Congress in order that the interests of the entomologists may be fully represented before the more comprehensive body. Those expecting to attend the Stockholm Congress should contact Prof. O. A. Johannsen, Comstock Hall, Cornell University, Ithaca, New York, as early as possible.

The American Association of Petroleum Geologists will hold its 33rd annual meeting in Denver, Colorado, April 26-29, 1948. The Rocky Mountain Association of Geologists will be the host for this occasion, and it is planned that the annual meetings of the Society of Economic Paleontologists and Mineralogists and the Society of Exploration Geophysicists will be held in Denver at the same time. T. S. Harrison and A. E. Brainerd, both consulting geologists of Denver, are in charge of arrangements.

Elections

At the Annual Election Meeting of the Czechoslovak Academy of Agriculture, May 7, 1947, several Czechoslovak and foreign agricultural scientists were elected to honorary membership. This is considered the highest distinction for services or scientific work in agriculture. The maximum number of living honorary members is limited to 40. Those elected include: H. C. Josef Opletal, professor, Agricultural College, Brno, Czechoslovakia; Edwin R. Henson, director, Agricultural Rehabilitation Division, UNRRA, Washington, D. C.; Nikolaj Vasiljevic Cicin, director, Plant Breeding Institute, Moscow; Trofim Denisov Lysenko, director, Lenin Academy of Agriculture, Moscow; Sir John Boyd Orr, director general, FAO, Warden Hill, Scotland; and Herbert C. Hanson, chief, Agricultural Division, UNRRA Mission, Prague, Czechoslovakia.

Elected as corresponding members, the limit of which is 120 foreign workers, were: C. G. Vilenskij, professor of pedology, University of Moscow; Hans Pallman, professor of agrochemistry, Technical University, Zürich, Switzerland; Kyril Pavlov, chief, Selection Department, State Research Institute, Sofia, Bulgaria; Nikolaj Belcen Kolev, direc-

tor, Plant Selection Institute, Sofia, Bulgaria; John Hammond, professor, animal physiology, Cambridge University, Cambridge, England; and Dimitr Bailov, professor and director, Tobacco Growing Institute, Agricultural-Forestry Faculty, Plovdiv, Bulgaria.

K. Kavina, professor of botany, University of Prague, is president of the Academy, and F. Duchon, secretary. The Academy issues the following journals: *Vestník CAZ* (Journal of the Czechoslovak Academy of Agriculture) with *Ceska Zemedelska Bibliografie* (Bibliography of Czech Agriculture); and *Sborník CAZ* (Almanac of the Czechoslovak Academy of Agriculture).

The University of Oregon Chapter of Sigma Xi has recently elected the following officers for the coming year: Lloyd W. Staples, Department of Geology, president; John M. Pierson, University of Oregon Medical School, vice-president; E. Ebbighausen, Department of Physics, secretary; and K. S. Ghent, Department of Mathematics, treasurer.

The Minnesota Academy of Science, at its 15th annual meeting held at State Teachers College, Mankato, April 26, elected Walter J. Breckenridge, director, Museum of Natural History, University of Minnesota, president; Duncan Stewart, Carleton College, Northfield, vice-president; W. C. Croxton, State Teachers College, Saint Cloud, councilor, 1947-51; and John W. Moore, University of Minnesota, secretary-treasurer, for a four-year term. George J. Miller, State Teachers College, Mankato, retiring president, became a two-year member of the Council, and Robert C. Molkenbur, Central High School, St. Paul, newly elected president of the Minnesota Junior Academy of Science, is a member, ex officio, of the Senior Council for the year.

NRC News

A Committee on UNESCO has been formed to facilitate the participation of scientists in the program of the United Nations Educational, Scientific, and Cultural Organization. The present membership includes Detlev W. Bronk, chairman, National Research Council; R. E. Cleland, University of Indiana; William Higinbotham, Federation of American Scientists; J. S. Nicholas, Yale University; Merle A. Tuve, Carnegie Institution of Washington; Maurice B.

Visser, University of Minnesota; Gene Weltfish, Columbia University; Dael Wolfe, American Psychological Association; and Raymund L. Zwemer, National Academy of Sciences and National Research Council. Bart J. Bok, Harvard University, is chairman of the Committee.

The Committee proposes to act as a clearinghouse for suggestions about UNESCO activities submitted by American scientists; to urge full participation by American scientists in the affairs of UNESCO and to give wide publicity to the activities of UNESCO, especially in the field of the Natural Sciences; to promote exchanges of scientists under the auspices of UNESCO; and, when requested, to assist the Natural Sciences Division in Paris, the Field Science Cooperation Offices, and members of the U.S. National Commission of UNESCO.

Recent Deaths

Ralph A. Jacobson, 51, research chemist, Chemical Department, E. I. du Pont de Nemours and Company, died July 2 after a short illness.

William Carl Ruediger, 73, dean emeritus, School of Education, George Washington University, and former provost, died at his home in Washington, D.C., on July 4.

Warren B. Davis, 65, clinical professor of plastic and reconstructive surgery, Jefferson Medical College, and surgeon, Jefferson Hospital, died July 7 at his home in Overbrook, Pennsylvania, after a long illness.

Mark Heiman, 71, dermatologist and syphilologist, St. Joseph's Hospital, Syracuse, New York, and former president, American Academy of Dermatology, died July 2 at his home in Syracuse.

S. F. Light, 61, professor of zoology at the University of California since 1929, died in Berkeley, California, June 21. Dr. Light is co-author of two articles on termites, to appear in *Science* in the near future.

An Indian Phytopathological Society was established by mycologists and plant pathologists meeting at the Indian Agricultural Research Institute, New Delhi, February 28, 1947. Membership is open to all individuals and groups

interested in the study of fungi, bacteria, viruses, and their useful and harmful aspects. Those joining before January 10, 1948 will be designated as Charter Members. Communications should be addressed to: B. B. Mundkur, Secretary-Treasurer, Indian Phytopathological Society, Agricultural Research Institute P. O., New Delhi, India.

A two- to three-month stay in Sweden is in store for about 120 scientists and teachers from European war-devastated countries, according to a recent report from the American-Swedish News Exchange, Inc. Costs of their stay are to be paid by the Swedish Government. Although most of the visitors will arrive in September, at the beginning of the university term, opportunity is afforded those who wish to attend scientific congresses to be held in Sweden this summer to do so. Although many different branches of science are represented, the majority are medical men and technologists.

The South African Council for Scientific and Industrial Research, set up in October 1945 as "a corporate body responsible to the Prime Minister for the formulation and the implementing of a national policy of scientific and industrial research," has organized Liaison Offices in both England and the United States. Inquiries from the respective countries relating to work being done in South Africa should be addressed to: Head: South African Scientific Liaison Office, 39 Princes Gate, Exhibition Road, London S. W. 7, or 1785 Massachusetts Avenue, Washington 6, D. C.

Make Plans for—

Conference on Algebra, July 25-28, University of Michigan, Ann Arbor.

New England Association of Chemistry Teachers, 9th Summer Conference, August 18-23, Wellesley College, Wellesley, Massachusetts.

Annual Symposium, Society for the Study of Development and Growth, August 26-29, University of Connecticut, Storrs.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.