# NEWS and Notes

**Ezra J. Kraus,** chairman of the Department of Botany, University of Chicago, from 1934 to 1947, retired with emeritus status on December 20. Dr. Kraus, also a former editor of the *Botanical Gazette,* was selected by American horticulturists as one of the three greatest contributors to horticulture over the past century. He will make his home in Corvallis, Oregon, where he will teach advanced and beginning horticulture at Oregon State College and continue his research on chrysanthemums.

**Paul F. Fenton,** research assistant in nutrition at the Yale University School of Medicine for the past three years, during which time he has developed a program of study dealing with the nutrition of mice in connection with cancer research, will transfer his work to Brown University on July 1 and become an associate professor in the Biology Department.

**Kenneth E. Caster,** assistant professor of geology and fellow in the University of Cincinnati's Graduate School of Arts and Sciences, recently returned to the Cincinnati campus after almost four years in South America under the auspices of the State Department and the Guggenheim Foundation. While there he traveled tens of thousands of miles gathering geologic data, much of which bears on the theory of "continental drift." This, according to Dr. Caster, is a "completely open issue which can't be settled with the information now at hand."

**Tibor Radó,** internationally known theoretical mathematician, who is chairman of the Department of Mathematics at Ohio State University, is the first appointee to Ohio State's newly created "University Research Professorships." In his new position Dr. Radó will be responsible to the dean of the Graduate School and continue scholarly creative work in his field.

**Dallas B. Phemister,** professor and chairman emeritus of the Department of Surgery, University of Chicago, will deliver the 13th Christian Fenger Lecture of the Institute of Medicine of Chicago and the Chicago Pathological Society on Monday evening, January 10, at the Palmer House. His subject will be "Circulatory Disturbances of the Skeletal System."

**Allen W. Goodspeed,** professor of forestry at Iowa State College, has resigned as of January 31 to become professor of forest management at West Virginia University, Morgantown.

**Carl F. Schmidt,** professor of pharmacology at the University of Pennsylvania School of Medicine, will deliver the fourth Harvey Lecture of the current series at the New York Academy of Medicine on January 20. Dr. Schmidt's topic will be "Quantitative Measurement of Cerebral Blood Flow in Man."

**Cledo Brunetti,** former chief of the Engineering Electronics Section, National Bureau of Standards, will become associate director of Stanford Research Institute on January 1. Dr. Brunetti, cited in 1941 as America's outstanding young electrical engineer, participated in developing the wartime radar-guided bomb and the radio-proximity fuse, as well as the two-way wrist radio.

**H. B. Mann** has been named president as well as a director of the American Potash Institute, effective January 1, when John W. Turrentine, head of the Institute since its founding in 1935, retires. Dr. Mann has been affiliated with the Institute since 1936.

**William W. Greulich,** professor of anatomy at Stanford University, who has just returned from Japan, reports that Japanese youngsters who survived the Nagasaki atomic bomb are in much better condition this year than they were last year. Dr. Greulich attributes this change largely to improvement in the Japanese food supply and states that it is a characteristic shared by the rest of the Japanese population. Dr. Greulich, assisted by Mrs. Greulich in this long-range survey, examined 800 children of grammar and junior high school age during the past three months.

**Linus Pauling,** chairman of the Division of Chemistry and Chemical Engineering at CalTech, has returned from a brief visit to France. Dr. Pauling was one of four scientists to receive the degree of Honorary Doctor at the University of Paris. Others so honored were Arne Tiselius (Sweden), Sir Jack Drummond (England), and E. Briner (Switzerland).

## Awards

**The Institut International des Sciences Théoriques,** 221, Avenue de Tervueren, Brussels, announces the Eddington Prize of 50,000 Belgian francs for the best exposition and critique of the conceptions of Eddington concerning the philosophy of physical science. Memoirs should be sent to the secretariat of the Institut before December 31, 1950.

**The Sir William Schlich Memorial Medal** was conferred on Herman H. Chapman, professor emeritus of forest management at Yale University and past president of the Society of American Foresters, on December 17 during the Society's annual meeting in Boston. The medal, awarded from time to time for noteworthy achievement in the advancement of forestry, is made possible through a fund established 15 years ago by foresters of English-speaking nations in recognition of Sir William's services to forestry in India, England, and throughout the world.

## Fellowships

**The Research Laboratories Division of General Motors Corporation** has established a graduate fellowship in mechanical engineering for an outstanding student in the Wayne University College of Engineering. Its stipend will vary from $1,700 to $2,300 per year. Selections will be made jointly by the chairman of the Department of Mechanical Engineering and representatives of the donors.

**Radcliffe College,** Cambridge, Massachusetts, has announced that application blanks for the Helen Putnam Fellowship for Advanced Research

may now be obtained from the Secretary of the Graduate School. These should be completed and returned not later than April 1. This fellowship, which carries a stipend of $2,600 a year, with possibility of renewal, is open to postdoctoral fellows in the field of genetics or of mental health broadly defined to include such fields as clinical psychology and child development.

**Several Graduate Teaching Fellowships in Chemistry** are available for women at Smith College for 1949–50. These fellowships, which pay $800 plus tuition and fees for the first year and are renewable for a second year, with an increase of $100, are designed to enable students to obtain the Master's degree in two years, assisting in the laboratory and in other ways part time.

Trustee Fellowships which furnish both tuition and residence, thus enabling superior students to obtain the Master's degree in one year, are also available.

Inquiries should be addressed to Jessie Y. Cann, Chairman, Department of Chemistry, Smith College, Northampton, Massachusetts.

## Colleges and Universities

**Massachusetts Institute of Technology** has just announced that an increase in tuition of $100 per academic year will be put into effect with the opening of the 1949 fall term. This increase, which will bring the Institute's comprehensive tuition, including all fees, to $800 per academic year, will be accompanied by a 30% increase in scholarship aid and by further liberalization of student loans, according to President James Killian, Jr. Loans up to a total of $250,000 a year can be made from the Institute's revolving Loan Fund, the largest in any American college.

**A course on radiation therapy** is now being conducted by Samuel J. Crowe, head of the Department of Otolaryngology, Johns Hopkins University, at the USAF School of Aviation Medicine, Randolph Field, Texas. Emphasis is placed on special problems in tonsil and adenoid tissue with reference to medical measures necessary for prevention of aero-otitis-media in flying personnel. During the course a survey of basic trainee airmen will be made under the supervision of Dr. Crowe and his associates, Le Roy Polvogt, of Johns Hopkins, and Ernie Weymuller, of the New York Eye, Ear, Nose, and Throat Hospital.

**CalTech's new 200-inch Hale telescope at the Palomar Observatory** may not be in operation until next fall, according to a recent announcement by Ira S. Bowen, director of the Observatory. Since late December 1947, when the first test photographs were made with the instrument, Dr. Bowen and his staff have been locating and eradicating "bugs" in the intricate mechanism. He pointed out that such delays are not unusual, for only after 10 years was the Mt. Wilson telescope found to be thoroughly satisfactory at all times.

Latest difficulty to be surmounted in the Hale telescope is a bulge, 20 millionths of an inch too high along the outer edge of the mirror, discovered while the mirror was under final test in the optical shop. Subsequent tests under actual operating conditions revealed that this condition was corrected to some extent but not sufficiently to assure the needed accuracy. Upon additional tests of the mirror and its support system, it was found that the mirror was not adjusting uniformly to temperature changes. Actually, the outside edge of the mirror adjusted itself to temperature changes more rapidly than the central portion. As a result, the edge was turned up by different amounts, depending on the temperature to which the mirror had been subjected in the preceding 24 hours.

To eradicate this newest "bug," Dr. Bowen and his associates have several solutions. They will first attempt to equalize the air temperature beneath the mirror and inside the mounting-point sockets with air about the outside edge. To do this a system of small fans may be installed inside the cell holding the mirror in order to circulate inside air sufficiently to provide an equalized temperature change. If, however, air circulation or insulation of the outer edge, or a combination of these does not provide the solution, it will probably be necessary to remove some glass to a depth of a few millionths of an inch from a portion of the mirror 18″ wide along the outer rim. According to Dr. Bowen, at least 6 months will be needed for this polishing work at the Observatory. This work can proceed concurrently with installation of such major equipment for the telescope as the last 36″ Coudé focus mirror, 7 smaller mirrors, and a Coudé spectrograph, and completion of two of three Ross correcting lenses.

## Meetings and Elections

**The 1949 convention of the Institute of Radio Engineers** will be held March 7–10 at the Hotel Commodore and Grand Central Palace, New York City. The theme of the program will be "Radio-Electronics—Servant of Mankind." The technical sessions will cover not only radio, in its limited sense, but the entire field of electronics, including studies of nuclear energy. Among the events scheduled are a luncheon in honor of the incoming president, Stuart L. Bailey, and the annual banquet, at which 31 members who have recently become fellows of the Institute will be honored. Karl Spangenberg, of the Office of Naval Research and Stanford University, will deliver a speech of acceptance in their behalf. Nearly 200 exhibits of postwar developments and products will be displayed, many of them for the first time. One center will be devoted entirely to nuclear instrumentation.

**The American Physical Society's Division of Solid State Physics** will hold its annual meeting March 10–12, 1949, in Cleveland. A. W. Lawson, secretary, has announced that members should make reservations at the Hollenden Hotel in Cleveland not later than March 1.

**Plans for the International Botanical Congress** to be held in Stockholm in July 1950 are already getting under way under the chairmanship of Carl Skottsberg, of Gothenburg. It is expected that approximately 2,000 botanists from all over the world will

attend. Prior to the Congress excursion groups will have an opportunity to study the vegetation of southern and central Sweden and of certain islands in the Baltic Sea; afterward, there will be tours to northern Sweden.

**The American Mathematical Society** of the Southern California Area held its annual meeting November 27 at the University of California, Los Angeles. Approximately 10 members attended, and a total of 30 papers was presented. One of the features of the program was an invited address, "The Geometry of Finsler Spaces," by Herbert Busemann, of the University of Southern California.

**At a meeting of the Geological Society of Washington** held at the Cosmos Club on December 8 James Steele Williams, U. S. Geological Survey, was elected president; Earl Ingerson and E. T. McKnight, vice-presidents; Ralph E. Van Alstyne, secretary; and Mrs. Charlotte M. Warshaw, treasurer.

At this meeting the address of the retiring president, W. W. Rubey, was given on "The Problem of Changes in Composition of Seawater and Atmosphere During the Geologic Past."

**The Hawaiian Academy of Science** held its 24th annual meeting November 18–19 at the University of Hawaii. The society holds two sessions each year, closing with a general business meeting, election of officers, and annual dinner at the end of the spring meeting.

Papers presented during the two-day session in November included "A Guide to Publications About the Pacific Area," by E. H. Bryan, Jr., Honolulu author and bibliographer; "On the Use of the Wechsler-Bellevue Scale in the Territory of Hawaii," Helen E. Peixotto, University of Hawaii Psychological and Psychopathic Clinic; "Application of Methods in Human Genetics to the Study of Mental Traits, With Special Reference to Mental Defect," Sidney L. Halperin, University of Hawaii Psychological and Psychopathic Clinic; "The Naulu: A Distinctive Rainstorm Type," Luna B. Leopold, Department of Meteorology, Pineapple Research Institute of Hawaii; "Rainfall Distribution in Hawaii," C. K. Stidd, U. S. Weather Bureau, Honolulu; "Rorschach Records Obtained Before and After Brief Psychotherapy," Edith E. Lord, University of Hawaii Psychological and Psychopathic Clinic; "Oceanographic Developments in the Hawaiian Area," Robert W. Hiatt, Department of Zoology and Entomology, University of Hawaii; "The Application and Mechanical Recovery of Internal Metal Fish Tags," Albert L. Tester, University of Hawaii; "An Improved Micro-Method for Determination of Reducing Sugars," Dr. George Burr, Department of Physiology and Biochemistry, and T. Tanimoto, Hawaiian Sugar Planters' Association; "The Action of Crustacean Eyestalk Hormones on Tissue Respiration," Bradley T. Scheer, University of Hawaii; and "The Effect of Growth Hormone on Flowering in Grasses," Carl Leopold, Hawaiian Pineapple Company, Ltd.

**The American Society of Zoologists,** at its recent annual meeting in Washington, elected the following officers for 1949: Robert Chambers, New York University, president; Douglas M. Whitaker, Stanford University, vice-president; Walter N. Hess, Hamilton College, secretary; Frank A. Brown, Jr., Northwestern University, treasurer; and Carl G. Hartman, Ortho Research Foundation, member of the Executive Committee.

**"A Hundred Years of Organized Science"** was the theme of a meeting of the University Club of Winter Park, Florida, held November 30. The meeting had been arranged by the local committee of AAAS members, appointed in connection with the Centennial Membership Campaign. William E. Stark, secretary of the Club, writes:

"About 100 members of the Club were present. An interesting feature was the presence of the oldest member of the Club, Dr. Herbert Osborn, age 92, who has been a member of the AAAS for 65 years. Prof. Oliver P. Medsger gave an interesting story of the history of the Association including a tribute to some of the influential leaders of the earlier years. Dr. Paul A. Vestal gave us a report of the various symposia at the Centennial meeting. These talks were followed by questions and discussion, and I used the last 10 minutes to emphasize the value of membership in the Association to men who have only a superficial knowledge of science but are keenly interested in it and like to know what is going on in the scientific world. I spoke especially of my own enjoyment of *The Scientific Monthly*. . . ."

## NRC News

**The Joint SSRC–NRC Fellowship Program** will be continued for the academic year 1949–50. It is the purpose of these fellowships to give special training to young men and women who have demonstrated marked ability in the natural sciences and who wish to undertake a broad program of study in the social sciences or, conversely, to those who are proficient in the social sciences and who wish supplementary training in one of the natural sciences.

Applicants for these Joint Fellowships, which are open only to citizens of the United States, must have training equivalent to that represented by the Ph.D. degree and must have demonstrated unusual talent for research and investigation.

Fellowships will be awarded by the Joint Fellowship Board in the Natural and Social Sciences in March 1949. To receive consideration at this meeting, applications must be filed on or before *February 1*, 1949. Unless otherwise arranged, tenure will begin on July 1, 1949.

## Deaths

**H. J. van der Bijl,** 61, South African scientist, mathematician, and industrialist, died December 2 in Johannesburg. As a research physicist for the American Telephone and Telegraph Company and Western Electric Company from 1913 to 1920, Dr. Van der Bijl achieved recognition for his work in the development of radiotelephony.

**William Gaertner,** 84, founder and president of the Gaertner Scientific Corporation, Chicago, designers of scientific instruments, died December 3 at his home in Wilmette, Illinois.

**Benjamin J. Slater,** 60, associate medical director of Eastman Kodak Company and a leader in the field of industrial medicine, died December 4 in his Rochester, New York, home.

**W. J. Dann,** 44, British-born authority on vitamins and nutrition and professor of nutrition at Duke University School of Medicine, died December 5 at his Durham, North Carolina, home.

**A. Wheeler Ralston,** 48, assistant director of research of the Chemical Research and Development Department, Armour and Company, and author of the recently-published *Fatty acids and their derivatives,* died suddenly December 5 in Chicago.

**George W. Barber,** 58, entomologist at the New Jersey Agricultural Experiment Station and former research entomologist with the U. S. Department of Agriculture, died December 6 in New Brunswick, New Jersey. Dr. Barber was nationally known for developing control measures for insect pests of corn.

**Marjory Stephenson,** 63, a leading British authority on the cause of bacterial diseases and one of the first women admitted into the fellowship of the Royal Society, died December 12 in Cambridge, England.

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**At the Third Session of the General Conference of UNESCO,** held in Beirut November 17–December 10, Jaime Torres Bodet, Minister of Foreign Relations of Mexico, was elected Director-General of that organization for a term of 6 years. In this post he succeeds Julian Huxley, internationally known British scientist, who has headed UNESCO since its organization in 1945. This week's cover shows Dr. Bodet addressing the final session of the Conference.

George V. Allen, Assistant Secretary of State for Public Affairs and chairman of the U. S. delegation, in advising the State Department of Sr. Bodet's nomination, stated:

"The election of Jaime Torres Bodet is an event of profound satisfaction to the United States Delegation and the United States Government. It is a tribute to his country, as well as to him. He won the gratitude of his countrymen and international recognition by his outstanding services as Minister of Education when he provided the leadership for a fundamental education program which has few parallels. His achievements since as Foreign Minister have won the respect and friendship of all nations seeking closer relationships and better understanding. His capabilities as an administrator and his intellectual leadership, together with his deep devotion to a peoples' movement should be invaluable to UNESCO and contribute immensely to the achievement of its goals."

**A diorama containing a model of part of the ancient Maya city, Chichen Itza,** and its surrounding landscape in Yucatan, Mexico, as it appeared at the height of its activity, about 1,000 A.D., has been installed in the Hall of American Archaeology at the Chicago Natural History Museum. According to Alexander Spoehr, who conceived and supervised preparation of the exhibit, the Maya Indians attained the highest degree of civilization of any aboriginal groups in North America. The exhibit has been created by Alfred Lee Rowell, dioramist, and John Pletinck. The latter is responsible for the temple restoration showing the elaborate architecture developed in plastered stone masonry by the Mayas. Mr. Pletinck visited the site of Chichen Itza to obtain data for guidance in its construction.

**Several volumes in the National Nuclear Energy Series** have been declassified and are in the final stages of preparation for publication, according to an announcement by the U. S. Atomic Energy Commission. The Series, which is expected to run to about 60 volumes upon completion, is being published by the McGraw-Hill Book Company, under a contract with Columbia University, which represents the AEC and its contractors. The volumes have been grouped in 8 Divisions, corresponding to the major projects under which the wartime research activities were conducted. Those scheduled for early publication and their group and volume editors are as follows: I. Electromagnetic Separation Project, R. K. Wakerling —Volume 5, *Characteristics of electrical discharges in magnetic fields,* R. K. Wakerling; II. Gaseous Diffusion Project, George M. Murphy—Volume 16, *Engineering developments of the Gaseous Diffusion Project,* Manson Benedict and C. Williams; III. Special Separations Project, George M. Murphy—Volume 1, *The theory of isotope separation,* Karl Cohen; Volume 2, *The spectroscopic and photochemical products of uranium compounds,* G. H. Dieke and A. B. F. Duncan; Volume 4, *Heavy water,* Harold C. Urey and Isadore Kirschenbaum; IV. Plutonium Project, Robert S. Mulliken — Volume 19B, *The thermodynamic properties of uranium compounds,* Lawrence Quill; Volume 20A, *Industrial medicine,* Robert S. Stone; Volume 22I, *Histopathology of irradiation from external and internal sources,* William Bloom; V. Los Alamos Project, R. C. Smith—Volume 1, *Experimental techniques,* William C. Elmore and Matthew L. Sands; Volume 2, *Ionization chambers and counters,* Bruno Rossi and Hans Staub; VI. University of Rochester Project, Donald R. Charles—Volume 1, *The pharmacology and toxicology of uranium and fluorine compounds,* Carl Voegtlin and Harold C. Hodge; VII. Materials Procurement Project, Charles Slesser —Volume 1, *Preparation, properties and technology of fluorine and fluorine compounds,* Charles Slesser; VIII. Manhattan Project, Clement J. Rodden and Eugene W. Rabinowitch —Volume 1, *The analytical chemistry of the Manhattan Project,* Clement J. Rodden.

**The Nepal Expedition,** sponsored by the National Geographic Society, Yale University, and the Smithsonian Institution, has received permission from Nepal's reigning Maharaja, Sir Mohan Shum Shere Jung Bahadur Rana, to spend a month in the Karnali River valley in western Nepal, from which all outsiders have previously been barred. A further concession will allow the party to explore the valley of Sun Kosi in eastern Nepal. The expedition, which is directed by Dillon Ripley, of Yale University, arrived in Katmandu, capital of the kingdom, in mid-November and has since been engaged in field work in the Terai, the lowlands to the south of Katmandu.