

However, there will be no changes in basic facilities that will enable engineers, executives and production men to get together in one convenient and coordinated meeting place to help solve mutual problems and to bring to the attention of all the developments of the year in the metal industry.

THE NEW DIRECTOR OF THE U. S. GEOLOGICAL SURVEY

WILLIAM EMBRY WRATHER, consulting petroleum geologist, of Dallas, Texas, became director of the Geological Survey of the Department of the Interior at a recent ceremony in the office of Secretary of the Interior Harold L. Ickes. He succeeds Dr. Walter C. Mendenhall, who retired last February after serving in the survey for forty-eight years.

Following the administering of the oath of office by Chief Clerk Floyd E. Dotson, Mr. Wrather received the congratulations of Secretary Ickes and more than a score of bureau and division chiefs and Department of Interior officials. He has been confirmed in the position by the Senate. Previously Mr. Wrather's name had been proposed for nomination by a number of prominent geologists and scientific organizations, including a committee of the National Academy of Sciences especially appointed for this purpose at the request of Secretary Ickes, who wrote:

I am confident that Mr. Wrather as its new director will add to the outstanding contributions that the Geological Survey has made in its long years of public service. It was my conviction that the selection of a director of this important scientific agency should not have a political consideration. I therefore requested the National Academy of Sciences to propose for the post the names of men who had high administrative ability as well as sound technical and scientific competence. Mr. Wrather was number one on the list provided by that body.

Mr. Wrather was born at Brandenburg, Ky., in 1883. He received his bachelor's degree at the University of Chicago in 1907 and studied at the Graduate School of that institution for two additional years. He was instructor in geology at the University of Chicago in 1922; the University of Texas in 1927; Yale University in 1930; Northwestern University in 1931, and the Southern Methodist University in 1935.

Mr. Wrather represented the National Academy of Sciences and the National Research Council at the International Congress at Madrid in 1926. He attended the National Geological Congress in South Africa in 1929. He was a member of the Organizational Committee of the Sixteenth International Geological Congress in Washington in 1933 and was a delegate to the Seventeenth International Geological Congress at Moscow, Russia, in 1937. For notable work in geology, he was awarded the alumni medal at the fiftieth anniversary of the University of Chicago.

The new director of the Geological Survey is a fellow of the Geological Society of America, in which he has held several offices; a member of the American Association for the Advancement of Science, of which he is a member of the executive committee; a former president of the American Association of Petroleum Geologists; a former president of the Society of Economic Geologists; a former president of the Texas Geological Society, and a member of the American Institute of Mining and Metallurgical Engineers, of which he was chairman of the Petroleum Division in 1933.

Mr. Wrather's professional work has been largely in the field of petroleum geology, but he is recognized as one having wide understanding and appreciation of the entire field of geology. He formerly served as associate chief of the Metals and Minerals Division of the Board of Economic Warfare.

SCIENTIFIC NOTES AND NEWS

DR. HARLOW SHAPLEY, director of Harvard College Observatory; Dr. P. W. Bridgman, Hollis professor of mathematics and natural philosophy, Harvard University, and Dr. L. C. Graton, professor of mining geology, have been elected corresponding members of the Mexican National Academy of Sciences.

THE William Osler Medal of the American Association of the History of Medicine has been awarded to George Edward Murphy, of the School of Medicine of the University of Pennsylvania, in recognition of his essay entitled "The Evolution of Our Knowledge of Rheumatic Fever." The essay will be published in the *Bulletin of the History of Medicine*.

THE American Institute of Electrical Engineers on the occasion of the twenty-fifth anniversary of his election as an officer presented a scroll to Walter Irvine Slichter, professor of electrical engineering at Columbia University. He became an associate of the institute in 1900, member in 1903 and fellow in 1912. Sincere appreciation is expressed of his long-continued interest and his uniquely devoted and valuable services in the development of institute activities as director, 1918-22; vice-president, 1922-24; national treasurer since 1930, and chairman and member of many institute committees, 1910-1943. Presentation of the scroll was made by Professor Comfort A. Adams, president of the institute.

THE Melchett Medal for 1943 of the British Institute of Fuel has been awarded to Dr. E. S. Grumell, head of the coal research laboratories of the Imperial Chemical Industries, Ltd. This medal is being presented to Dr. Grumell in recognition of "outstanding work tending to the economical use of fuel which he has done over a long period."

PROFESSOR ALBERT EINSTEIN has joined the United States Navy Ordnance Bureau as a "staff member extraordinary" for research work on the phenomena governing explosives. He is working on a part-time basis for the Navy at the Institute for Advanced Study at Princeton.

A UNITED PRESS dispatch from Moscow to *The New York Times* states that the USSR on July 8 awarded the \$30,000 Joseph Stalin Prize and the Order of Lenin for the invention of a simple turbo-generator to Professor Leonid K. Ramzin, the Russian electrical engineer. Under a decree issued by the Kremlin, the turbo-generator will bear the inventor's name.

THE College of Physicians of Philadelphia awarded the Alvarenga Prize on July 14 to Dr. Ernest Carroll Faust, professor of medical parasitology and acting head of the department of tropical medicine, Tulane University, for his "outstanding contributions to our knowledge of parasitology and tropical medicine." This prize was established by the will of Pedro Francisco Da Costa Alvarenga, of Lisbon, Portugal, an associate fellow of the College of Physicians, "to be awarded annually by the College of Physicians on each anniversary of the death of the testator, July 14, 1883, to the author of the best work in any branch of medicine which may be deemed worthy of the prize."

ST. OLAF COLLEGE conferred on May 30 the honorary degree of doctor of laws on Dr. Donald C. Balfour, head of the Mayo Foundation, Rochester, Minn., and the honorary degree of doctor of science on Dr. Adolph M. Hanson, Faribault, Minn., in recognition of work on the isolation of the active principles of various hormones.

DR. EDWARD B. STEPHENSON, principal physicist of the Naval Research Laboratory, Washington, D. C., was awarded the honorary degree of doctor of science at the commencement exercises of Knox College.

The Lancet reports that Sir Henry Tidy, president of the Royal Society of Medicine, London, has sent the following greeting to Professor George Mityerov, the People's Commissar for Public Health of the USSR: "On behalf of the 6,000 fellows of the Royal Society of Medicine, which has concerned itself with the science and culture of medicine since the year

of its foundation in 1805, and which has actively concerned itself with matters regarding public health, I have the honor to congratulate the People's Commissariat of Public Health on the twenty-fifth anniversary of its foundation and to wish it all prosperity and ever-growing success. May the great work which it has achieved in raising the standard of public health in Russia during the last twenty-five years be amplified and improved at an ever-increasing rate both now and in the time that is to come when the defeat of the Axis, due to the joint efforts of the Allied Nations, will set free all our energies for the betterment of the lot of humanity."

DR. W. K. FISHER, since 1917 director of the Hopkins Marine Station of Stanford University at Pacific Grove, Calif., will retire on August 31 with the title professor of biology, emeritus. He will be succeeded by Dr. Lawrence Rogers Blinks. Dr. Fisher will continue research at the station as associate in zoology of the U. S. National Museum.

At the School of Medicine of the University of Minnesota, Dr. J. C. McKinley, head of the department of medicine and director of the division of nervous and mental diseases, has been named head of the newly established department of neuropsychiatry, which includes the divisions of adult psychiatry and child psychiatry. Dr. Cecil J. Watson has been named head of the department of medicine and director of the division of internal medicine, and Dr. Raymond N. Bieter, professor of pharmacology, has been appointed head of the department of pharmacology to succeed the late Dr. Arthur D. Hirschfelder.

DR. GEORGE HUGH BOYD, professor of zoology and chairman of the division of biological science of the University of Georgia, has been named dean of the Graduate School. He succeeds as dean Dr. R. P. Stephens, head of the department of mathematics.

DR. T. DALE STEWART, curator and administrative head of the Division of Physical Anthropology in the U. S. National Museum, has been appointed visiting professor in anatomy at the Washington University School of Medicine for six months beginning on July 1.

DR. WENDELL H. TAYLOR, assistant professor of chemistry at Princeton University, has been appointed head of the Department of Science at Lawrenceville School, New Jersey.

THE trustees of the Lady Tata Memorial Fund announce that on the recommendation of the Scientific Advisory Committee they have agreed, if circumstances permit, to make awards for research in blood diseases, with special reference to leukemia, in

the academic year beginning on October 1. Among those mentioned as recipients of grants is Dr. J. Furth, of the Cornell University Medical College, New York.

DR. W. G. OGG, director of the Macaulay Institute for Soil Research, Aberdeen, Scotland, has been appointed director of the Rothamsted Experimental Station to succeed Sir John Russell, who will retire in September.

AN Associated Press dispatch reports that Surgeon General Thomas Parran has announced the appointment of Dr. Raymond A. Vonderlehr as director of district No. 6 of the United States Public Health Service covering Puerto Rico and the Virgin Islands. Dr. Vonderlehr recently completed eight years' duty as assistant surgeon general in charge of the division of venereal diseases.

DR. LEVERETT D. BRISTOL, of Montclair, N. J., health director of the American Telegraph and Telephone Company, has been offered by the New Jersey State Board of Health the position of state health director, to succeed Dr. J. Lynn Mahaffey, of Haddonfield, who has resigned.

CAPTAIN JOSEPH N. LECONTE, formerly with the Chemical Warfare Service, Fourth Service Command, Atlanta, has been promoted from the rank of first lieutenant to become chief of Chemical Section Inspection, Chemical Warfare Service, Washington, D. C.

DR. LOGAN J. BENNETT, biologist of the U. S. Fish and Wildlife Service, has been commissioned in the Naval U. S. Reserve as a Lieutenant (j.g.). He reported for active duty on July 15. Dr. Bennett has been with the Fish and Wildlife Service for the past eight years. From 1938 to the time of his enlistment in the Navy, he has been leader of the Pennsylvania Cooperative Wildlife Research Unit with headquarters at the Pennsylvania State College.

DONALD McLAUGHLIN resigned on July 1 as dean of the College of Engineering and chairman of the department of mining engineering of the University of California at Berkeley, to accept the position of vice-president and director of the Cerro de Pasco

Copper Corporation, New York, N. Y. He is continuing as consulting geologist and director of the Homestake Mining Company and related companies.

DR. FLOYD S. MARKHAM, associate professor of bacteriology at the Ohio State University, has left for North Africa to take charge of laboratories for the Typhus Commission of the Rockefeller Foundation.

THE Lord President of the Council has promoted Dr. B. A. Southgate to be acting director of water pollution research in the British Department of Scientific and Industrial Research. He succeeds Dr. A. Parker, who has been made director of fuel research.

THE Frederick Price Lecture of the Royal College of Physicians of Edinburgh was delivered on July 2 by Sir Henry Dale, president of the Royal Society. The title of the lecture was "A Prospect in Therapeutics."

PROFESSOR EDWARD KASNER, of Columbia University, recently addressed the Forum of *Scripta Mathematica* in New York on "Circles, Spheres and Geology."

By the will of Mrs. Harriette M. Arnold, of New York City, her residuary estate, amounting to \$17,683,533, is distributed equally among St. Luke's Hospital, which also was bequeathed \$50,000; the Metropolitan Museum of Art, New York Public Library, Trinity Church, Harvard College, Yale University and Princeton University. Other bequests include \$100,000 each to Columbia University, Barnard College, Bard College at Annandale, N. Y., the General Theological Seminary of the Protestant Episcopal Church, New York Hospital and St. Mary's Hospital for Children, Inc. Among institutions receiving bequests of \$50,000 are the University of the South, Sewanee, Tenn.; the New York Medical College Flower and Fifth Avenue Hospitals; Presbyterian Hospital in the City of New York, the Roosevelt Hospital and the Lying-in-Hospital. Bequests of \$25,000 are made to Manhattan Eye, Ear and Throat Hospital, to Vassar College and to Smith College.

DISCUSSION

CIRQUES, HANGING VALLEYS AND HIGH-LEVEL BENCHES IN GLACIER NATIONAL PARK¹

As shown on the topographic map of Glacier Na-

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tional Park there are, back in the mountains, numerous high-level cirques and relatively large benches on some of which are now small glaciers. Below these are nearly vertical cliffs 1,000 to 2,000 feet or more in height above the adjacent parts of the main valley