

The nineteenth annual lecture of the Institute of Metals Division was delivered on Wednesday by Edgar Hutton Dix, Jr., chief metallurgist of the Research Laboratories, Aluminum Company of America, on "Acceleration of Rate of Corrosion by High Constant Stresses." Following the dinner of the division on Thursday evening, Herbert T. Strong, color consultant of the New York Museum of Science and Industry, spoke on "Exploring the Magic World of Color." At this dinner the award of the division for 1940 was presented to Alden B. Greninger, assistant professor of metallurgy in the Graduate School of Engineering of Harvard University.

The seventeenth Howe Lecture was given on Thursday afternoon by Charles H. Herty, of the department of research and development of the Bethlehem Steel Company. He spoke on "Slag Control." Following the annual dinner of the Petroleum Division on Thursday evening, Herbert Hoover, Jr., of the United Geophysical Company, spoke on the "Economic Effects of Geophysical Exploration in the Petroleum Industry."

At a meeting of the Mining Geology Committee on Tuesday morning brief tributes were paid to the late Waldemar Lindgren by W. C. Mendenhall, B. S. Butler, Alan M. Bateman, W. H. Newhouse and R. D. Butler.

The medals and honors of the institute presented at the annual banquet at the Waldorf-Astoria on the evening of February 14 were:

The James Douglas Medal to Louis Davidson Ricketts, "for inspirational leadership and distinguished achievements in the metallurgy of copper."

The Anthony F. Lucas Medal to E. DeGolyer, "for initiating applied geophysics, directing the early practical seismic exploration and fostering applied science in finding, developing and producing oil."

The Robert W. Hunt Medal for 1940 to Axel Hultgren and Gösta Phragmén, for their paper, contributed to the institute, entitled "Solidification of Rimming-steel Ingots."

A certificate of honorary membership to Henry Krumb, vice-president of the institute for the last twelve years, "in recognition of his notable attainments as an engineer; of his constant and effective efforts in behalf of the profession; and of his never-failing and wise counsel in the administration of the institute's affairs during critical years."

The J. E. Johnson, Jr., Award to P. V. Martin, for his published research on the "Effect of the Solution-loss Reaction on Blast-furnace Efficiency."

Ninety living members of the institute have been on its rolls continuously for fifty years or more. Ten attained that status this year, thus becoming members of the Legion of Honor, Class of 1940, and receiving a special gold pin emblematic of the honor. They are: William R. Appleby, Henry C. Banon, Walter A. Barrows, Jr., L. E. Dunham, James MacNaughton, Spencer Miller, E. W. Parker, Franklin B. Richards, W. J. Richards and H. L. Smyth.

Herbert G. Moulton was introduced as president of the institute for 1940.

SCIENTIFIC NOTES AND NEWS

THE title of president emeritus has been conferred by the trustees of the Ohio State University on Dr. William McPherson, emeritus professor of chemistry, who has been acting president of the university since the retirement of Dr. George W. Rightmire nineteen months ago. The newly elected president, Dr. Howard Landis Bevis, previously William Ziegler professor of law and government in the Graduate School of Business Administration at Harvard University, has taken up his work at the university.

DR. EDWARD RAY WEIDLEIN, director of the Mellon Institute, was presented with the 1939 Pittsburgh Award by the Pittsburgh Section of the American Chemical Society at a dinner given in his honor at the University Club on February 15.

DR. WILLIAM CROCKER, director of the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., was the guest of honor at a surprise party given on January 27 by the staff of the institute in honor of his sixty-fourth birthday.

A DINNER was given recently by former students and

friends of Dr. John F. Lyman, who has completed twenty-five years as chairman of the department of agricultural chemistry at the Ohio State University. Dean Emeritus Alfred Vivian, of the College of Agriculture, presided and made the presentation speech, to which Dr. Lyman responded. Gifts included a gold fountain pen, an engraved silver tray and a bound volume of letters from graduate students.

THE Council of the British Institution of Electrical Engineers has made the eighteenth award of the Faraday Medal to Dr. Alexander Russell, principal of Faraday House, London, a past president of the institution. The medal is awarded either for notable scientific or industrial achievement in electrical engineering or for conspicuous service rendered to the advancement of electrical science.

DR. ERICH VON DRYGALSKI, professor of geography at the University of Munich, celebrated his seventy-fifth birthday on February 9.

LIEUTENANT COMMANDER F. W. REICHELDERFER, acting chief of the U. S. Weather Bureau, was elected

at the recent Columbus meeting *president* of the American Meteorological Society.

OFFICERS of the American Microscopical Society elected at Columbus on December 28 are: *President*, H. E. Jordan, University of Virginia; *First Vice-president*, Raymond J. Pool, University of Nebraska; *Second Vice-president*, Ruth Marshall, Rockford College, Illinois; *Secretary* (3 years), J. E. Ackert, Kansas State College; *Member of the Executive Committee* (3 years), Asa C. Chandler, Rice Institute.

THE officers for the American Association of Economic Entomologists for 1940 are: *President*, Professor Harry S. Smith, University of California; *First Vice-president*, Professor W. A. Price, Kentucky Agricultural Experiment Station; *Vice-presidents*: Pacific Slope Branch, B. G. Thompson; Cotton States Branch, O. I. Snapp; Eastern Branch, W. H. White; Section of Plant Quarantine and Inspection, George S. Langford; Section of Apiculture, Frank R. Shaw; Section of Extension, C. B. Dibble; Section of Teaching, C. L. Metcalf. *Branch and Section Secretaries*: Roy E. Campbell, Pacific Slope Branch; J. T. Creighton, Cotton States Branch; H. B. Weiss, Eastern Branch; Roger C. Smith, Section of Teaching; Roy G. Richmond, Section of Plant Quarantine and Inspection; W. A. Price, Section of Apiculture; G. E. Lehker, Section of Extension.

THE College of Physicians of Philadelphia has elected the following officers for 1940: *President*, E. B. Krumbhaar; *Vice-president*, O. H. Perry Pepper; *Secretary*, J. Harold Austin; *Treasurer*, John B. Flick; *Censors*: A. P. Brubaker, Charles W. Burr, Francis R. Packard and John H. Gibbon. *Incoming Councillors*: Robert H. Ivy and T. Grier Miller.

At the meeting on January 11 of the Pathological Society of Philadelphia, the following officers were elected for 1940-41: *President*, Dr. Jefferson H. Clark; *Vice-president*, Dr. R. Philip Custer, and *Secretary-Treasurer*, Dr. Herbert L. Ratcliffe.

DR. RICHARD S. LYMAN, now of the Phipps Psychiatric Clinic of the Johns Hopkins University, has been appointed head of the new department of psychiatry and mental hygiene at Duke University, the establishment of which was made possible through a grant of \$175,000 from the Rockefeller Foundation. The Highland Hospital, at Asheville, N. C., a gift to the university last year by Dr. Robert S. Carroll, will be used in connection with this department.

DR. LEON A. BRADLEY has been made head of the newly formed department of bacteriology at the Massachusetts State College. Merrill J. Mack, assistant professor of dairy industry, has been appointed to a full professorship.

THE London *Times* states that it is expected that Dr. E. G. Holmes, university lecturer in biochemistry, will be appointed deputy for the professor of biochemistry at the University of Cambridge from January 5 last to the end of the present academic year, and that he will be head of the department of biochemistry so long as he is deputy for that professor. Sir Frederick Gowland Hopkins, who occupies the professorship, has been ordered by his physician to rest.

LIEUTENANT COLONEL JAMES STEVENS SIMMONS, Medical Corps, United States Army, who for the past three years has been on duty as assistant corps area surgeon at headquarters, First Corps Area, Boston, Mass., was transferred on February 15 to the Professional Services Division of the Office of the Surgeon General, U. S. Army, Washington, D. C.

At the business meeting of the Ecological Society of America recently held in Columbus, Dr. Thomas Park, of the University of Chicago, and Dr. Francis Ramaley, of the University of Colorado, were elected zoological and botanical editors, respectively, of *Ecology*, the journal of the society. They take the place of the former editors, Dr. Alfred Emerson and Dr. George Fuller, both of the University of Chicago.

DR. EDWARD L. KESSEL, chairman of the department of biology of the University of San Francisco, has recently been appointed managing editor of *The Wasmann Collector*, the official organ of the Wasmann Biological Society. Associated with him on the editorial board are Dr. Robert T. Orr, of the California Academy of Sciences; Roland Reed, S.J., of Alma College; Professors Harold A. Harper and Carl G. Kadner, of Loyola University of Los Angeles, and George W. Collins, of the University of San Francisco.

DR. ARCHIBALD V. HILL, Foulerton research professor in physiology and secretary of the Royal Society, has accepted the invitation of the Cambridge University Conservative Graduates' Association to be its candidate in the forthcoming parliamentary university by-election. He will stand as an independent conservative.

BOGDAN FILOV, minister of education of Bulgaria, professor of archeology and the history of art at the University of Sofia and president of the Bulgarian Academy of Sciences, has been called on to form a new Bulgarian Government owing to the resignation of the cabinet of Premier George Kiossewanoff.

DR. FREDERICK J. BRADY, of the U. S. Public Health Service, will spend several months in research in parasitology at the School of Tropical Medicine conducted at the University of Puerto Rico, San Juan, under the auspices of Columbia University.

ACCORDING to the *Journal* of the American Medical Association the following professors visited recently the medical centers of Argentina and gave lectures: Professors Rovenstine, of New York (anesthesia); Grey Turner, of London (surgery); G. Marañón, of Madrid; G. G. Voronoff, of Paris, and George Harrop.

ACCORDING to the London *Times* Professor Auguste Piccard and M. Max Cosyns, of Brussels, are going to Buenos Aires to cooperate with the committee which is arranging a balloon flight from Argentina into the stratosphere. The actual flight will be made by Major Olivera, of Argentina, and the Rev. Ignacion Puig, S.J., who is director of the Geodetic and Physics Observatory at San Miguel.

THE William Potter Memorial Lecture of the Jefferson Medical College of Philadelphia was delivered on February 14 by Dr. Irvin Abell, clinical professor of surgery at the University of Louisville School of Medicine. His subject was "The Spirit of Medicine."

DR. CHESTER S. KEEFER, associate professor of medicine at the Harvard Medical School, delivered the Henry Sewall Memorial Lecture before the Medical Society of the City and County of Denver on January 30. His subject was "Hemolytic Streptococcal Infections: Their Importance in Acute and Chronic Disease."

DR. GEORGE L. STREETER, director of the Carnegie Laboratories at the Johns Hopkins Hospital, visited the University of Minnesota Medical School on January 17 and 18. He lectured before the medical faculty and students on "Early Stages of Macaque Development and Their Significance in Primate Embryology."

THE Edward K. Dunham lectures of the Harvard Medical School will be given on March 4, 6 and 8 by Dr. S. Walter Ranson, professor of neurology and director of the Institute of Neurology of the Northwestern University Medical School, Chicago. The titles of the lectures are: "The Hypothalamus and the Sympathetic Nervous System"; "Hypothalamico-hypophysial Relationships," and "The Hypothalamus and Behavior."

At a meeting of the executive committee having charge of local arrangements for the meeting at Edinburgh of the International Congress of Psychology, it was decided that it would not be possible to hold the congress this summer. Edinburgh may still be regarded as open for some future year.

THE spring meeting of the Connecticut Valley Association of Psychologists, to be held on May 4 in New London, will mark the formal opening of the new psychological laboratory at Connecticut College. Professor Robert S. Woodworth, of Columbia University, will be the speaker. The laboratory is equipped with

a vivarium, operating room, sound-reducing room, shop, darkroom, seminar and special research rooms.

A CONFERENCE of the entomologists of Maine and Canadian Maritime Provinces was held at the University of Maine on January 17 and 18. After a word of greeting from Dr. Fred Griffiee, director of the Maine Agricultural Experiment Station, the conference was opened with a brief address of welcome by Dr. Arthur A. Hauck, president of the university. The program of the conference consisted of the informal presentation and discussion of problems concerning insects affecting truck crops, forest and shade trees and orchard and small fruits. At the final session it was decided to make such a conference an annual event.

THROUGH a bequest of the late William Campbell, for many years Howe professor of metallurgy at Columbia University, several fellowships have been established. They are awarded primarily for graduate study and research in the field of metallurgy. The stipend of each Campbell fellowship is fixed at the time of award by recommendation of the Campbell Fellowship Committee and will normally be an amount sufficient to meet the necessary living expenses of the incumbent of the fellowship. Further information can be obtained from Professor Eric R. Jette, School of Mines, Columbia University.

THE Graduate School of the University of Illinois has established four research fellowships to be awarded for one year in the fields of medicine and dentistry in Chicago at a stipend of \$1,200 per year. Fellows are eligible for reappointment in competition with the new applicants. Candidates for these fellowships must have completed a training of not less than eight years beyond high school graduation. Applications must be made by March 1 to the secretary of the Committee on Graduate Work in Medicine and Dentistry, 1853 W. Polk Street, Chicago, Illinois.

NEW YORK UNIVERSITY GRADUATE SCHOOL OF ARTS AND SCIENCES announces the second annual New York University Social Science Field Laboratory Fellowships. The laboratory will be held among the Pomo Indians of California during the summer of 1940. The field work, editing and publishing of the results will be supervised by Dr. Bernard W. Aginsky, director, and Dr. Ethel G. Aginsky, associate director. The fellowships are limited to eight graduate students and accredited seniors who will be selected from several branches of the social sciences and from various universities. The purpose is to continue the investigation of the present white-Indian communities against the background of the aboriginal Pomo Indian culture in order to study culture change. The results, which may be used as theses or dissertations, are to be

published in a volume. Communications should be addressed to Dr. B. W. Aginsky, Sociology-Anthropology Department, Washington Square College, New York University, New York, N. Y.

THE Committee on the Chemistry of Proteins of the Division of Chemistry and Chemical Technology of the National Research Council has been granted \$3,600 by Eli Lilly, of Indianapolis, for the establishment of a National Research Council fellowship in protein chemistry. The recipient of the fellow-

ship is Dr. I. Fankuchen, who will carry on x-ray research on proteins in the laboratory of Professor B. E. Warren, at the Massachusetts Institute of Technology.

DR. GEORGE WASHINGTON CARVER, of the Tuskegee Institute, has given the sum of \$33,000 to establish a foundation for chemical research. The foundation will be asked to preserve the Carver Museum at the institute, which contains an exhibit of the uses of native materials. The museum also will house about 100 paintings by Dr. Carver.

DISCUSSION

RAINBOWS AT HONOLULU

IN 1938, a note by Lobeck on lunar rainbows evoked several responses, and the present writer offered some statements as to frequent occurrence of both solar and lunar rainbows in Hawaii.¹ From October, 1938, to the end of November, 1939, record was kept of solar rainbows seen from a single automobile, official car number 529, driven about 850 miles per month, chiefly in morning and late afternoon hours. (See Table I.) About 90 per cent. were seen by the writer, the remainder by one or more of his assistants.

TABLE I
RAINBOW OBSERVATIONS

Month*	Rainbows recorded	Number of different half days (morning or afternoon)	Number of different days
1938			
October†	10	9	7
November	9	5	4
December	21	14	13
1939			
January	19	16	12
February	15	10	8
March	10	8	8
April	11	11	9
May	23	12	9
June	15	11	8
July‡
August§	4	3	2
September	16	12	10
October	27	17	11
November	21	11	9
Average for complete months ..	17.0	11.6	9.3

* These figures have no validity as showing long-term, seasonal differences for different months.

† 19 days, October 13-31.

‡ Absence from Honolulu, no record kept.

§ Part of month, record incomplete.

In the total, a new view of a rainbow, seen from a different district a few minutes later, was recorded as a separate observation; the amount of such duplication is readily seen in Table I. A similar number of rainbows would be seen by any one spending a fair number of days in the open; a substantially larger number by persons on a daily delivery schedule or at work in the

open in particular districts. Following a note in the local papers, a number of contemporary and older observations of lunar rainbows were referred to the writer by letter and telephone, including statements as to prevalence nearly every lunar month at certain points, but statistical treatment is impracticable. In early October, 1938, while the writer was at Kilauea, Hawaii, a lunar rainbow was seen by numerous guests at the Volcano House.

CHESTER K. WENTWORTH

HONOLULU, HAWAII

A TYPE SPECIMEN COMES HOME

THE type specimen of *Delphinus calvertensis*, after an absence of more than 90 years from the National Paleontological Collections, has been returned. As an example of true scientific interest and generous co-operation this recovery of an important type, whose ownership was obscured by the lapse of time and by the passing of an earlier generation, is an event of more than ordinary interest.

The history of this specimen is as follows:

In 1841, Francis Markoe, Jr., corresponding secretary of the National Institute, made a geological excursion into Calvert County, Maryland. From a cliff in the vicinity of Cove Point the skull and neck of a cetacean was collected. In 1842, this specimen was described by Richard Harlan,¹ who named it *Delphinus calvertensis*. In 1846, April 29th, the National Institute was directed by Congress to deposit its collections in the Smithsonian Institution. In 1850, Jeffries Wyman² announced that Louis Agassiz (who was appointed professor of natural history in Lawrence Scientific School of Harvard University in 1846) was commencing a study of the Cetacea. At a meeting of the American Academy of Arts and Sciences in October, 1848,³ Professor Agassiz exhibited skulls of fossil cetaceans including the type of *Delphinus calvertensis*. In 1858, and 1862, the collections of the National Institute were transferred to the Smithsonian Institution,

¹ Richard Harlan, *Second Bull. Proc. Nat. Inst. for Promotion of Sci.*, Washington, D. C., 2, 195-196, figs. 1-4.

² Jeffries Wyman, *Am. Jour. Sci.*, 10: 230, footnote.

³ *Proc. Am. Acad. Arts and Sciences, Boston*, 2: 5, 1852.

¹ A. K. Lobeck, *SCIENCE*, 88: 187, 1938. Notes by W. J. Humphreys, R. L. Hightower and C. K. Wentworth, *SCIENCE*, 88: 496-498, 1938.