

9, closing a day of divisional sessions, Dr. Harrison E. Howe, editor of *Industrial and Engineering Chemistry*, will deliver a public address on "Chemistry Comes South." Another event stressing the development of chemistry in the southern states is a symposium on "The Relation of Cotton to Chemical Industry," to be held by the Division of Chemical Education. Experts from all over the country will take part. Dr. Charles H. Herty, past president of the society, will preside.

Practically all the professional divisions will meet in Atlanta. Public health, the growing alliance of chemistry and medicine, chemical education, nationwide popular training of women in chemistry, rubber, gas and fuel, sugar, petroleum, cellulose, history, agriculture and food, biology, paint and varnish, and water, sewage and sanitation are among the topics to be discussed.

The Division of Biological Chemistry will hold sessions on the relation of vital processes in health and

disease, including nutrition, vitamins, irradiation, endocrinology, proteins, amino acids and enzymes. Graduate and undergraduate students will join with teachers from schools and colleges all over the country in the sessions on chemical education.

Mineral waters will be the chief topic of discussion at the sessions of the Division of Water, Sewage and Sanitation Chemistry. The papers at one session will deal with the application of the Food and Drugs Act to the mineral water business and the distribution of safe and palatable table waters and on the utilization of spring waters at health and pleasure resorts. Papers at another session will take up stream pollution, including the work done by the City of Philadelphia toward the cleaning of the Schuylkill River.

Other meetings include those of divisional officers, Erle M. Billings, of Rochester, New York, presiding, and local section officers, with Dr. G. L. Wendt, of Battelle Memorial Institute, Columbus, Ohio, as chairman.

SCIENTIFIC NOTES AND NEWS

PROFESSOR WILLIAM MORTON WHEELER, of Harvard University, has been made an honorary member of the Société Entomologique de France. Dr. L. O. Howard is the only other honorary member among Americans.

THE doctorate of laws was conferred at the mid-year commencement of the University of Pittsburgh on Dr. Herbert Osborn, research professor of zoology and entomology at the Ohio State University.

DR. HENRY LEFFMANN, professor of chemistry in the Wagner Free Institute and in the Woman's Medical College of Pennsylvania, has been elected an honorary member of the Franklin Institute of the State of Pennsylvania.

FREDERICK E. TURNEAURE, dean of the college of mechanics and engineering of the University of Wisconsin, has been awarded the Henry C. Turner gold medal by the American Concrete Institute "for distinguished service in formulating sound principles of reinforced concrete design." The presentation was made on February 13 at New Orleans.

At the monthly meeting of the American Geographical Society on February 25 the Charles P. Daly gold medal was presented to Nelson Horatio Darton, of the U. S. Geological Survey. The citation read: "His preparation of the topographic base maps of Arizona and New Mexico on the scale of 1:500,000 proclaim him a worthy follower in the great tradition of the surveys 'west of the hundredth meridian.' With great energy and continuity of purpose he has carried for-

ward researches in the physical geography of our western domain from its northern to southern borders and beyond, laying foundations for the fuller enjoyment of its resources."

DR. HERMAN A. SPOEHR, assistant director in charge of the Coastal Laboratory for botany of the Carnegie Institution of Washington, has been appointed director of the Division of Natural Sciences of the Rockefeller Foundation. He succeeds Dr. Max Mason, recently elected president of the foundation. Dr. Spoehr will take up the work on September 1.

PROFESSOR W. CARL RUFUS, of the department of astronomy of the University of Michigan, has been named acting director of the department and acting director of the university observatories, to fill the place of the late Professor Ralph H. Curtiss. Dr. Rufus has been connected with the university since 1917.

DR. EARL D. BOND, who since 1913 has been medical director and physician-in-chief of the department of mental and nervous diseases of the Pennsylvania Hospital, has been appointed professor of psychiatry in the University of Pennsylvania Medical School and will join the faculty on July 1. Dr. Bond also became medical director of the institute for mental hygiene at the Pennsylvania Hospital when the institution opened its new building on March 1.

DR. HENRICUS J. STANDER, associate professor of obstetrics in the Johns Hopkins Medical School, has been appointed professor of obstetrics and gynecology

in Cornell University and head of these departments in the New York Hospital, effective in September, 1931. Dr. Stander will remain at the Johns Hopkins until that time and will act as adviser in obstetrics and gynecology to the New York Hospital in the development of their woman's clinic as part of the plant of the New York Hospital-Cornell Medical College Association.

DR. GERALD S. SHIBLEY, of Columbia University, has been appointed associate professor of medicine in the school of medicine of Western Reserve University, the appointment to take effect on July 1. Dr. Shibley will occupy a similar position on the staff of Lakeside Hospital.

DR. GEORGE M. PETERSON, who has been connected with the staff of the U. S. Treasury Department for the past two years, has been appointed associate professor of agricultural economics on the Giannini Foundation of Agricultural Economics in the University of California.

DR. BRUCE L. WARWICK, formerly assistant professor of genetics and veterinary science, University of Wisconsin, has succeeded Dr. J. L. Lush as animal husbandman, breeding investigations, of the range animal husbandry division, Experiment Station, Agricultural and Mechanical College of Texas. Dr. Lush has accepted a position at the Iowa State College.

CHARLES A. DOBBEL, assistant professor of mining and metallurgy at Stanford University, was recently appointed engineering assistant to Dr. Ray Lyman Wilbur, Secretary of the Interior.

H. E. FOOTE (Ph.D., Brown, '17), a member of the investigational staff of the Mellon Institute since 1927, has been awarded the industrial fellowship on oxygen by the Gas Industries Company, Pittsburgh, designers and builders of liquid-air oxygen apparatus. The investigation is to be concerned with the extension of the present uses of oxygen, and in particular with the application of cheap oxygen in various industrial processes, including metallurgical operations and organic oxidation reactions.

At the annual meeting of the Research Board of the Engineering Foundation on February 20, officers for the ensuing year were elected as follows: *Chairman*, H. Hobart Porter; *vice-chairmen*, Otis E. Hovey and G. H. Clevenger; *additional members of the executive committee*, Gano Dunn, George L. Knight; *director and secretary*, Alfred D. Flinn.

DR. WILFRED H. OSGOOD, curator of zoology at Field Museum of Natural History, has gone to London, taking with him a number of specimens obtained by the William V. Kelley-Roosevelts Expedition to

Eastern Asia which he will study and compare with type-specimens in the British Museum (Natural History).

AN expedition headed by Dr. and Mrs. Herbert Spencer Dickey will leave New York on March 20 in a renewed attempt to discover the exact source of the Orinoco River in South America and possible archeological remains. The expedition is under the auspices of the Museum of the American Indian, Heye Foundation, of which Dr. Dickey is a staff member.

DR. OLIVER C. LESTER, dean of the graduate school and professor of physics at the University of Colorado, who has visited the laboratories of physics of universities in England, Scotland, Germany, France, Switzerland, Italy and Austria, left Colorado on September 4 and spent some time at the California Institute of Technology and the University of California before sailing for London. Dr. Lester returned to New York on February 15, and will spend the next six weeks visiting laboratories in the eastern part of the United States. He will resume his work at the University of Colorado on March 28.

PROFESSOR W. E. ALLEN, of the Scripps Institution of Oceanography, La Jolla, will cooperate with the United States navy in its research on paint to protect ships against marine growths. He will be present in San Diego each month when conditions of growths are inspected.

DR. HUGH S. TAYLOR, professor of chemistry and chairman of the department of chemistry at Princeton University, and Dr. Wallace R. Brode, assistant professor of chemistry at the Ohio State University, will lecture during the intersession of the University of California from May 19 to June 28. During this session Dr. Wolfgang Panzer, professor of geography at the University of Berlin, will give two courses, one on geography and the other on climatology.

At the meeting of the American Geographical Society on February 25, Mr. R. H. Sargent, of the U. S. Geological Survey, delivered an address on "Alaskan Glaciers from the Air." Mr. Sargent exhibited and described a selection of the aerial photographs made by the Navy Department in cooperation with the U. S. Geological Survey as part of the government mapping program in Alaska. Of special interest were a series of slides illustrating features of glacier flow.

DR. E. W. BERRY, professor of paleontology in the Johns Hopkins University, delivered an address on "The Origin and Evolution of Plants" before the Washington Academy of Sciences on February 20. This is the third of a number of lectures proposed by the academy on various phases of genesis and devel-

opment or "Origin and Evolution," which eventually, and as revised by the authors, may be assembled in book form.

DR. ALBERT W. HULL, assistant director of the research laboratory of the General Electric Company, lectured before the Franklin Institute, Philadelphia, on February 19 on "Vacuum Tube Research."

PROFESSOR G. W. STEWART, head of the physics department at the State University of Iowa and national president of Sigma Xi, addressed the Iowa State College Chapter of Sigma Xi at Ames on February 17. He spoke on "The Liquid State of Matter." The following day Dr. Stewart spoke before the graduate school and the physics seminar on "Experiments in X-ray Diffraction."

PROFESSOR S. R. WILLIAMS, of Amherst College, was the guest of the Rosa Club at Wesleyan University on February 25. Following dinner at the Eclectic Fraternity, Professor Williams addressed the club members on "Teaching and Research in the Field of Physics." Other guests included the faculty committee on vocational guidance and all undergraduates who are interested in physics.

ON February 15 Dr. H. T. Barnes, professor of physics in McGill University, delivered a lecture before the Royal Canadian Institute on "Winter Waterways of Canada."

DR. A. LANDÉ, visiting professor from the University of Tübingen at the Ohio State University, gave a lecture at Ohio University, Athens, on February 20 entitled "Recent Advances in Atomic Structure."

A SYMPOSIUM upon "Evolution and Human Life" was held by the Philosophical Union of the University of California at Los Angeles on February 28. Papers were presented by Dr. J. Arthur Thomson, of the University of Aberdeen, who will be one of the prin-

cipal speakers at the formal dedication of the new campus and buildings of the university on March 27 and 28; by Dr. Thomas Hunt Morgan, of the California Institute of Technology, and by Dr. Herbert Wildon Carr, who has been a member of the faculty of the University of London.

THE fifteenth annual meeting of the American Association of Petroleum Geologists will be held at New Orleans, Louisiana, from March 20 to 22. The Roosevelt Hotel is headquarters for the convention. Arrangements are in charge of the executive committee composed of the five elected officers of the association, with the cooperation of the New Orleans Convention and Publicity Bureau, Inc., and the management of the Roosevelt Hotel. Nearly a hundred papers are being offered for the program, so that concurrent sessions will be necessary, the several different phases of geological science as applied to the petroleum industry being separated for special sessions in separate rooms. The membership now numbers 2,300. Geophysicists and paleontologists will also have special programs at this convention, the latter group being organized as an affiliated society of the American Association of Petroleum Geologists and known as the Society of Economic Paleontologists and Mineralogists, of which the officers are: *President*, Marcus A. Hanna, Houston, Texas; *Vice-president*, John B. Reeside, Jr., Washington, D. C.; *Past-president*, R. C. Moore, Lawrence, Kansas; *Secretary-Treasurer*, F. B. Plummer, Austin, Texas, and *Editor*, Joseph A. Cushman, Sharon, Massachusetts.

THE laboratory of animal nutrition at Cornell University has recently moved into new quarters provided at the cost of \$30,000. Facilities are provided for the study of the fundamental phases of nutrition in both its chemical and physiological aspects. The work of the laboratory is being developed under the direction of Dr. L. A. Maynard and Dr. C. M. McCay.

DISCUSSION

THE ETIOLOGY OF THE DISEASE PSITTACOSIS

THE recent outbreak of human disease associated with disease in parrots resembled in its clinical aspects the disease psittacosis. The etiology of this disease has been in doubt, largely because of the failure to find an agent common to all or most of the cases examined and in the associated ill parrots.

Our investigations were started about January 15. We obtained material from a series of cases and in none were we able to find any evidence that infection by the *B. psittacosis* existed. A sick parrot in a family where there were two ill adults was the only instance where both sources of material were available for laboratory study. The parrot died and an

emulsion of the organs fed and injected into another parrot reproduced the same disease picture. The organs of this parrot were emulsified and filtered through a Berkefeld V filter. This when inoculated produced the same disease picture. The materials from this parrot, filtered in the same way, again produced the disease.

The sputum and blood from one of the cases mentioned above were fed to a parrot and a disease picture resulted resembling that of the parrot which presumably infected this case. The organs of the inoculated parrot were used to infect another parrot, after the material had been filtered through a Berkefeld V filter. The disease was again produced. The