

Other conferences and their speakers, so far as chosen, were announced as follows:

July 8, "Modern Research on Structure of Metals," Dr. Davey.

July 9, "The Control of Corrosion," William Blum, U. S. Bureau of Standards.

July 11, "The Control of Corrosion," W. B. Mitchell, Central Alloy Steel Corporation.

July 12, "The Training of Research Chemists."

July 13, "Training of Routine Plant Chemists and Continuation Education," Dr. R. E. Rose, E. I. du Pont de Nemours & Co.

July 14, "The General Theory of Catalysis," Professor E. K. Rideal, Cambridge University, England.

July 15, "Ammonia Synthesis."

July 16, "Ammonia Oxidation," G. B. Taylor, E. I. du Pont de Nemours & Co.

July 18, "High Pressure Synthesis," Professor H. S. Taylor, Princeton University.

July 19, "High Pressure Technique," F. A. Ernst, Fixed Nitrogen Research Laboratory, Washington.

July 20, "Modern Spectrum Analysis."

July 21, "Spectro Photometry," W. C. Holmes, U. S. Department of Agriculture.

July 22, "Chemical Microscopy," Professor E. M. Chamot, Cornell University.

July 23, "New Organic Solvents."

July 25, "Determination of Particle Size," S. E. Sheppard, Eastman Kodak Company, Rochester, N. Y.

July 26, "Oxidation-Reduction in the Living Cell," Dr. W. M. Clark, Hygienic Laboratory, U. S. Public Health Service.

July 27, "General Status and Problem of Nutrition," Professor H. C. Sherman, Columbia University.

July 28, "Vitamins," Professor J. C. Drummond, University College, London.

July 29, "Biochemistry."

The discussion group on July 14 will include Dr. Irving Langmuir, physical chemist of the General Electric Company, Schenectady, N. Y., Professor Taylor and Dr. C. H. Kunsman, of the Fixed Nitrogen Research Laboratory, and on July 13 Dr. C. M. Mackall, of George Washington University, and Dr. R. E. Bowman, of the Wilmington, Del., Trade School. This symposium will be presided over by Professor Neil E. Gordon, of the University of Maryland. Other discussion groups will be drawn from the universities and the industries.

Besides the conferences and the intensive courses, popular lectures on chemistry have been arranged under the direction of Professor Frank C. Whitmore, head of the department of chemistry in Northwestern University. Motion pictures will also be used to illustrate the progress of chemistry.

THE INTERNATIONAL SOIL CONGRESS

THE first International Congress of Soil Science is being held in Washington, D. C., from June 13 to 22,

in the headquarters building of the Chamber of Commerce. Dr. Oswald Schreiner, senior biochemist in charge of soil-fertility investigations in the Bureau of Soils, is chairman of the executive committee of the congress.

President Coolidge was expected to open the congress. Secretary of Agriculture Jardine and Dr. A. F. Woods, director of the scientific work of this department, are to make addresses.

Abstracts of the papers have been prepared in English, German and French. These abstracts were distributed to the delegates on the first day of the congress so that they could have opportunity to familiarize themselves with the program in advance of meetings.

The program of the congress include local excursions about Washington, a reception at the Pan-American Union and a trip through the National Gallery of Art.

On the evening of June 22 the delegates will board a special train in Washington and start on a trans-continental tour which will cover a period of thirty days and will give the visitors an opportunity to study the soil regions and cropping conditions over a wide area of the United States and Canada.

In addition to the delegates from abroad, the experiment stations of the United States will be well represented by delegates appointed from their soils staffs. During the progress of the tour a number of the state experiment stations will be visited. Among these stations will be those of Tennessee, Georgia, Kansas, California, Oregon, Minnesota, Iowa, Indiana and perhaps a few others.

Dr. A. G. McCall, professor of geology and soils of the University of Maryland and in charge of soil investigations of the Maryland Experiment Station, is the executive secretary of the congress.

AWARD OF THE JOHN SCOTT MEDALS

AWARD of the John Scott Bronze Medal and \$1,000 to each of six scientific men for "useful inventions for the use and benefit of mankind" was announced on June 3. The fund for the award was established in 1816 by John Scott, of Philadelphia. Winners of the award are:

Strickland L. Kneass, Philadelphia engineer, for the invention and development of an exhaust feed water heater injector.

Dr. Afranio Do Adaral, Bahia, Brazil, for his preparation of anti-snakebite serums.

Dr. Alfred Fabius Hess, professor of children's diseases at Columbia University, New York, for his studies on the influence of ultra-violet light on rickets and on various foods, showing that the vitamin values in these substances could be increased.

Herbert E. Ives, physicist, Bell Telephone Laboratories,

New York, for development of a method for transmitting pictures over telephone lines and for the further development of television either over land wires or by radio.

Dr. Peyton Rous, pathologist of the Rockefeller Institute, New York, for his invention of devices and the development of a filtration technique for separating from tumor cells a substance producing sarcoma in fowls.

Dewey DeForest Knowles, physicist, Western Electric Research Laboratories, Bloomfield, N. J., for a device known as a "Grid Low Relay," by which it is possible by an infinitesimal amount of energy to control the operation of an electric switch in an electric circuit capable of performing any desired operation.

SCIENTIFIC NOTES AND NEWS

PROFESSOR JOHN JOHNSTON, since 1919, Sterling professor of chemistry at Yale University, has resigned to join the United States Steel Corporation as director of its department of research and technology.

DR. WILLIAM CROCKER, director of the Boyce Thompson Institute for Plant Research, was recently elected chairman, and Dr. L. L. Woodruff, of Yale University, vice-chairman, of the Division of Biology and Agriculture of the National Research Council for the year 1927-28.

CORNELL COLLEGE has conferred the degree of doctor of laws on Herbert Hoover, secretary of the Department of Commerce.

THE degree of doctor of laws was conferred by Lafayette College on Dr. William S. Jardine, Secretary of Agriculture, at the commencement exercises on June 10. Dr. Jardine delivered the address, taking as his subject "Leadership in a Modern World."

DR. HUGH S. CUMMING, surgeon-general, United States Public Health Service, who spoke on the "Relation of the Physician to the Public" at the commencement exercises of the Medical College of Virginia, Richmond, was awarded the honorary degree of doctor of science. Dr. Cumming is an alumnus in medicine of both the University of Virginia and the Medical College of Virginia.

THE doctorate of science was conferred on Dr. Henry Fairfield Osborn, president of the American Museum of Natural History, on the occasion of the recent commencement of New York University.

DR. HARLOW SHAPLEY, director of the Harvard College Observatory, has been awarded the degree of doctor of laws by the University of Missouri, where he graduated in 1910.

THE University of Pittsburgh has conferred the honorary degree of doctor of science upon Mr. Andrey Avinoff, director of the Carnegie Museum,

and Professor Hugo Kahl, curator of entomology in the museum.

AT the commencement exercises of the University of Maryland, the degree of doctor of science was conferred on Sir John Russell, director of the Rothamsted Experiment Station.

THE medal of honor of the Institute of Radio Engineers for 1927 has been awarded to Dr. Louis W. Austin, physicist of the laboratory for special radio transmission research of the Bureau of Standards. The presentation was made by Dr. Ralph Bowie, president of the institute, at the meeting on June 1.

DR. DOUGLAS JOHNSON, professor of physiography in Columbia University, has been elected a corresponding member of the Russian Geographical Society.

DR. SOLOMON SOLIS COHEN, professor of clinical medicine in the Jefferson Medical College and Hospital, has resigned his chair and has been made emeritus professor.

PROFESSOR C. F. JACKSON, head of the department of zoology in the University of New Hampshire, was at the recent annual meeting at Waterville elected president of the state academy of science to succeed Dr. Wilhelm Segerblom, head of the department of chemistry at Phillips Exeter Academy.

AT the recent meeting of the American Society of Mechanical Engineers at White Sulphur Springs, West Virginia, officers were nominated as follows: *President*, Alexander Dow, president of the Detroit Edison Company, Detroit, Mich.; *Vice-presidents*, John H. Lawrence, vice-president and engineering manager of Thomas E. Murray, Inc., New York, N. Y.; Newell Sanders, Newell Sanders Plow Company, Chattanooga, Tenn.; Edward A. Muller, vice-president and general manager, King Machine Tool Company, Cincinnati, O.; Paul Wright, Paul Wright and Company, Birmingham, Ala.

THE American Society of Agricultural Engineers has elected Colonel O. B. Zimmerman, experimental engineer with the International Harvester Company, president, to take office following the meeting at St. Paul, which will be held from June 22 to 25. Arthur Huntington, public relations engineer, Iowa Railway and Light Corporation, will be first vice-president; Deane G. Carter, professor of agricultural engineering of the University of Arkansas, second vice-president, and Raymond Olney, St. Joseph, Mich., secretary and treasurer.

DR. WILLIAM SNOW MILLER, professor emeritus of anatomy at the University of Wisconsin, was elected an honorary member of the National Tuberculosis Association at the Indianapolis meeting.