

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,