

Manufacturers, are cooperating as conveners of the Congress. This is the first such congress to be held, and it is anticipated that succeeding sessions will be held in the Dominions under the auspices of an Empire Council of Mining and Metallurgical Engineering Institutions, which it is hoped will be constituted as a result of the inaugural congress. Viscount Long of Wraxall will deliver the Sir Julius Wernher Memorial Lecture of the Institution of Mining and Metallurgy at the opening session, taking mineral resources and their relation to the prosperity and development of the Empire as his subject. The May Lecture of the Institute of Metals to be delivered by Dr. F. W. Aston, on "Atoms and isotopes," will also form part of the program.

TWENTY leaders in the American pulp and paper industry have been asked by Secretary of Agriculture Wallace to form an advisory committee to work with the United States Department of Agriculture in formulating and carrying out its forestry policies which relate to the supply and use of timber in making paper and kindred products. Hugh P. Baker, secretary of the American Pulp and Paper Association, has been active in the formation of the advisory committee and has conferred concerning the matter with Chief Forester Greeley and E. H. Clapp, director of research for the Forest Service. Secretary Wallace states that the creation of an advisory committee composed of men intimately concerned with the pulp and paper industry will, in his opinion, insure thorough consideration of requests for advice as well as bring forth advice itself which would deal in a searching and practical way with the fundamental problems of the industry. Among the activities of the department closely concerned with the pulp and paper industry are the research in pulp and paper-making conducted at the Forest Products Laboratory at Madison, Wis., forest research in the growing of timber crops now under way at the various forest experiment stations, and the development of federal and state policies for the production of timber upon the country's forest lands.

HITHERTO the mathematical, physical and biological papers submitted to the Cambridge Philosophical Society have been published in one series of proceedings. In order to facilitate the publication of the results of biological research carried out in Cambridge, it has been decided to attempt the publication of a separate series of *Biological Proceedings*. The new series will consist largely of papers representing the results of completed work, and notices of preliminary investigations will be added as an appendix. The following constitute a committee to whom papers are referred prior to publication: H. R. Dean, F. G. Hopkins, A. C. Seward, J. T. Wilson, J. Barcroft, J. Gray, T. C. Nicholas and F. A. Potts.

UNIVERSITY AND EDUCATIONAL NOTES

Two Atlanta women have left large legacies to Atlanta colleges. Miss Jane Walker Inman left \$259,000 to Agnes Scott College to be used in establishing an endowment in honor of her brother. Mrs. Robt. J. Lowry left \$275,000 to Ogelthorpe University to establish a school of commerce and banking in honor of her deceased husband, Colonel Robt. J. Lowry.

EDGAR ALLEN, formerly of Washington University, St. Louis, has been appointed professor of anatomy at the University of Missouri.

FRANK A. FERGUSON, associate professor of physics at Rutgers College, has been appointed head of the department of physics of the Connecticut Agricultural College.

JOHN L. BRAY has resigned his position as metallurgist with the U. S. Tariff Commission to accept the professorship in metallurgy at Purdue University.

DR. JOSEPH P. HETWER and Dr. Harry A. Beckman have been appointed instructors of physiology and pharmacology, respectively, in the Marquette Medical School.

WALTER C. KRAATZ, PH.D. (Ohio State University, '23), who has been instructor in the department of zoology at Ohio State University, is this year assistant professor and acting head of the department of zoology at Miami University, during the leave of absence of Professor S. R. Williams.

PROFESSOR JOHN READ, of the University of Sydney, and Professor Adam Patrick, of the University of Glasgow, were installed in the chairs of chemistry and medicine, respectively, at the University of St. Andrews on October 5.

DR. JAMES FRANCK has been appointed to the chair of physics in the University of Berlin, vacant by the death of Dr. Heinrich Rubens.

DISCUSSION AND CORRESPONDENCE

ACTIVE HYDROGEN BY ELECTROLYSIS

IN 1907 Fischer and Massenez¹ obtained a concentration of 17 per cent. by weight of ozone when they electrolyzed a solution of sulfuric acid, using a very high current density. Since ozone can be produced by this method, it would seem probable that a high current density at the cathode might aid in the production of the ozone form of hydrogen. When a solution of sulfuric acid is electrolyzed, using the above principle, the hydrogen that escapes at the cathode contains an active constituent which combines with pure nitrogen to form ammonia. Some of the am-

¹ *Z. Anorg. Chem.*, 52, 202 (1907).