

solution of arsenic can be obtained by the electrolysis of an alkaline solution with arsenic for the anode, or by the electro-reduction of an alkaline solution of arsenious acid. The properties of the solutions thus obtained are described in detail.—**J. B. Senderens**: The catalysis of the aromatic acids. A study of various catalytic substances shows that only thoria, zirconia, and green oxide of uranium are of practical use in this reaction, and of these thoria has the preference. More than thirty aromatic mixed ketones have been obtained by the application of this reaction.—**F. Couturier**: The stability of the β -keto-aldehydes.—**G. Darzens**: A new method of synthesis of unsaturated ketones. Stannic chloride can replace aluminium chloride with advantage in reactions between acetyl chloride and hydrobenzenes. The experiments described have a bearing on the theory of the Friedel and Crafts reaction.—**G. Malfitano** and **Mlle. A. Moschkoff**: The coagulation of starch material by freezing.—**L. Ravaz**: Researches on the specific reciprocal influence of the subject on the graft in the vine.—**G. André**: The development of a bulbous plant: variations in the weight of nitrogen and the mineral matters.—**M. Biélor-Chatelan**: The estimation of assimilable potash in soils. It is concluded that the amount of potash extracted by a solution of carbon dioxide in water gives results that are best comparable with the actual culture experiments.—**J. Tissot**: The experimental study of intra-organic combustions in animals breathing air progressively deprived of oxygen, and the natural methods of defence of the organism against anoxihæmia.—**F. Maignon**: The influence of the genital glands on glycogen production.—**M. Ranjard**: Contribution to the study of audition and its development by the vibrations of the vowel siren.—**H. Dominici, G. Petit, and A. Jaboin**: The persistent radio-activity of the organism resulting from the intravenous injection of an insoluble salt of radium, and on its applications. One milligram of radium sulphate was injected into a horse, and the distribution of the radio-activity studied. The effects could be traced for more than six months after the date of the injection.—**Mlle. Cernovodeanu and Victor Henri**: The action of the ultra-violet rays on micro-organisms and on different cells. Microchemical study. The ultra-violet rays produce chemical and physical transformations in protoplasm which modify completely all the colour reactions. This action of the rays is quite different from that of heat, hydrogen peroxide, or ordinary fixing agents.—**J. Nageotte**: The activity of the myeline sheath in nerves separated from the organism.—**H. E. Sauvage**: The Andersh ganglion in the horned Phrynosome.—**P. Hachet-Souplet**: The education of animals by man as a means of psychological research.—**L. Bordas**: General considerations on the Malpighi tubes of the larvæ of Lepidoptera.—**Paul de Beauchamp**: The existence and conditions of parthenogenesis in *Dinophilus*.—**A. Rodet and M. Lagriffoul**: The serotherapy of typhoid fever. Clinical results. In the greater proportion of the cases cited the disease has been arrested at the twelfth day or later. If the serum is administered at the eleventh day, at the latest, it appears to exert a beneficial influence on the course of the disease.—**A. Trillat and M. Sauton**: The influence of vitiated atmospheres on the vitality of microbes.—**P. and N. Bonnet**: The existence of the Trias and Mesojurassic in the neighbourhood of Djoulfa, southern Transcaucasia.—**Const. A. Ktenas and Ph. Négris**: The presence of layers containing Ellipsactinia in the Vardusa mountains and in *Ætolia*, in Greece.—**Albert Michel Lévy**: The pechstein strata in the Esterel.—**Albert Nodon**: Researches on terrestrial magnetism.—**Henryk Arctowski**: Some anomalies in the distribution of atmospheric pressure in the United States.

FORTHCOMING CONGRESSES.

MAY 16-21.—International Congress of Americanists. Buenos Ayres. General Secretary: Dr. Lehmann-Nitsche, Calle Viamonte 430, Buenos Ayres, Argentine Republic.
MAY 14-22.—International Botanical Congress. Brussels. General Secretary: Dr. E. de Wildeman, Jardin botanique, Bruxelles.
JUNE.—International Congress of Mining, Metallurgy, Applied Mechanics and Practical Geology. Düsseldorf. General Secretaries: Dr. Schrödter and Mr. Löwenstein, Jacobi-strasse 3/5, Düsseldorf, Germany.
JULY 27-31.—International Congress on the Administrative Sciences. Brussels. Secretary of British Committee: Mr. G. Montague Harris, Caxton House, Westminster.

AUGUST 1-6.—International Congress of Entomology. Brussels. Chairman of Local Committee for Great Britain: Dr. G. B. Longstaff, Highlands Putney Heath, S.W.
AUGUST 1-7.—French Association for the Advancement of Science. Toulouse. President: Prof. Gariel. Address of Secretary: 28 rue Serpente, Paris.
AUGUST.—International Congress of Photography. Brussels. Correspondent for United Kingdom: Mr. Chapman Jones, 11 Eaton Rise, Ealing, W.
AUGUST.—International Congress of School Hygiene. Paris. Secretary: M. Dufestel, 10 Boulevard Magenta, Paris.
AUGUST 15-20.—International Zoological Congress. Graz (Austria). President: Prof. Ludwig von Graff. Address for inquiries: Präsidium des VIII. Internationalen Zoologen-Kongresses, Universitätsplatz 2, Graz (Österreich).
AUGUST 18-26.—International Geological Congress. Stockholm. General Secretary: Prof. J. G. Andersson, Stockholm 3.
AUGUST 31 TO SEPTEMBER 7.—British Association. Sheffield. President: Prof. T. G. Bonney, F.R.S. Address for inquiries: General Secretaries, Burlington House, W.
SEPTEMBER 6-8.—International Congress of Radiology and Electricity. Brussels. General Secretary: Dr. J. Daniel, 1 rue de la Prévôte, Brussels. Correspondents for United Kingdom: Prof. Rutherford and Dr. W. Makower, University of Manchester, and Dr. W. Deane Butcher, Holyrood, Ealing, W.
SEPTEMBER 18-24.—German Association of Naturalists and Physicians. Königsberg. Secretaries: Prof. Lichtheim and Prof. F. Meyer, Drumstr. 25-29, Königsberg.
SEPTEMBER 27-30.—International Physiological Congress. Vienna. President: Prof. S. Exner. General Secretary for United Kingdom: Prof. E. B. Starling, University College, London, W.C.
OCTOBER 6-12.—Congrès International du Froid. Vienna. Correspondent for United Kingdom: Mr. R. M. Leonard, 3 Oxford Court, Cannon Street, E.C.

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