

adaptations in peripheral vision during different stages of pregnancy. The visual sensibility becomes depressed a few days before the end of pregnancy, and the depression reaches its maximum during labour. After labour, the sensibility rises considerably. I. TCHERNIAYEV and A. RUBINSTEIN: The reaction of pyridine with Cleve's and Gerard's salts. When pyridine reacts with Cleve's salt, a replacement of the molecules of ammonia by pyridine takes place, and $(\text{PyCl})_2\text{Cl}_2\text{Pt}$ is formed. In the reaction with Gerard's salt, pyridine replaces two ions of chlorine, with the formation of $(\text{NH}_3)_2(\text{PyCl})_2\text{PtCl}_2$. The reaction with pyridine may serve as a qualitative test for these salts. N. HELD and V. DJACHKOV: Studies in the adsorption of organic substances on crystal surfaces. The adsorption of nonylic acid on barium sulphate proved to belong to the type of ionic adsorption. A. STUDITSKII: The interaction of cartilaginous tissue and the periosteum and its rôle in the endochondrial process according to data obtained from grafts transplanted on to the allantois. V. NOVIKOV, A. GRETCHUSHNIKOV and J. BARMENKOV: The accumulation of rubber in the roots of *tau-sagyz* as a result of its disappearance from the leaves. B. LICHAREV: New genera of Upper Palaeozoic Brachiopoda. A. P. VINOGRADOV: Origin of iodine and bromine in oil-bearing waters. D. KOSTOV: Polygeneric hybrids experimentally produced. Experiments showed the possibility of obtaining trigeneric and tetrageneric hybrids of several species of *Nicotiana*.

Comptes rendus, n.s., No. 5.—I. VINOGRADOV: Trigonometrical polynomials for complicated moduli. S. BERNSTEIN: Diffusion with absorption. V. KUPRADZE: The proofs of existence and of unity in the diffraction theory. V. A. FOCK: Approximate representation of wave functions of penetrating orbits. V. KUZNETSOV and D. SARATOVKIN: Contribution to the problem of the primary crystallisation of metals. The orientation of monocrystals is accidental, and the probable orientation is characterised by the angles $\chi = 0^\circ$ and $\chi = 30^\circ$. P. BUDNIKOV: Activation of the slags of blast furnaces and the preparation of clinkerless cement. N. HELD and K. SAMOCHVALOV: Studies in the adsorption of organic substances on crystal surfaces (2). Influence of electrolytes on the adsorption of the octylalcohol by Ag_2S , HgS , BaSO_4 , and of the nonylic acid by Ag_2S . A. STUDITSKII: Conditions for the differentiation of the osseous tissue of a human embryo in grafts on the allantois. I. KOLOMIEZ: On 'critical period' in the development of wheat. There is a connexion between the greatest sensitivity of wheat to a lack of moisture, and the time at which the formation of the generative organs begins. L. DOBRUNOV: Growth peculiarities of hemp as a result of a lack of nutritive substances in the soil.

Forthcoming Events

Wednesday, June 20

ROYAL METEOROLOGICAL SOCIETY, at 5.—Sir Napier Shaw: "The Natural History of Weather".

I. S. Astapowitsch: "The Air-Waves caused by the Fall of the Meteorite on June 30, 1908, in Central Siberia". Dr. F. J. W. Whipple: "Phenomena related to the great Siberian Meteor".

INSTITUTION OF HEATING AND VENTILATING ENGINEERS, June 18-20. Summer meeting to be held at Hastings.

Official Publications Received

GREAT BRITAIN AND IRELAND

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1557 (I.C.E. 823; T.V.C. 58): Effects of Friction in Aircrowd Drives in Damping Torsional Vibration. By B. C. Carter. Pp. 25+3 plates. 1s. 3d. net. No. 1567 (Strut. 122, 127): Flexural and Shear Deflections of Metal Spars (Part 1). By I. J. Gerard and H. Boden. Pp. 11+20 plates. 1s. 6d. net. (London: H.M. Stationery Office.)

Proceedings of the Royal Irish Academy. Vol. 42, Section C, No. 3: A Wooden Cauldron from Altartate, Co. Monaghan. By A. Mahr. Pp. 11-29+plates 7-10. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.

Seale-Hayne Agricultural College, Newton Abbot, Devon: Department of Plant Pathology. Tenth Annual Report for the Year ending September 30th, 1933. (Pamphlet No. 42.) Pp. 39. (Newton Abbot.)

A List of Official Chemical Appointments. Compiled by direction of the Council of the Institute of Chemistry and under the supervision of the Publications Committee. Eighth edition, revised and enlarged. Pp. 389. (London: Institute of Chemistry.) 5s.

The Scientific Journal of the Royal College of Science. Vol. 4: Containing Papers read during the Session 1933-1934 before the Imperial College Chemical Society, the Royal College of Science Natural History Society, the Royal College of Science Mathematical and Physical Society. Pp. 172. (London: Edward Arnold and Co.) 7s. 6d.

Annals of the Royal Statistical Society, 1834-1934. Pp. xii+308+8 plates. (London: Royal Statistical Society.)

A List of International Fellowships for Research. Second edition (revised and amplified). Pp. 187. (London: International Federation of University Women.) 2s.

Economic Advisory Council. Committee on Cattle Diseases: Report. (Cmd. 4591.) Pp. 161. (London: H.M. Stationery Office.) 2s. 6d. net.

OTHER COUNTRIES

Mysore Geological Department. Bulletin No. 14: The Origin and Correlation of the Metamorphic Rocks of the Sakarsanhalli Area, Kolar District. By M. B. Ramachandra Rao and K. Sripada Rao. Pp. iv+33+8 plates. (Bangalore: Government Press.) 1 rupee.

Dominion of Canada: Department of Marine: Radio Branch. Supplement "A" to Bulletin No. 2: Radio Inductive Interference. By H. O. Merriman. Pp. 41. (Ottawa: King's Printer.) 15 cents.

U.S. Department of the Interior: Geological Survey. Bulletin 846-D: Some Lode Deposits in the Northwestern Part of the Boise Basin, Idaho. By Clyde P. Ross. (Contributions to Economic Geology, 1933.) Pp. iv+239-285+plates 39-48. 35 cents. Bulletin 848: The Microscopic Determination of the Nonopaque Minerals. By Esper S. Larsen and Harry Berman. Second edition. Pp. vi+266. 20 cents. Water-Supply Paper 726: Surface Water Supply of the United States, 1932. Part 1: North Atlantic Slope Basins. Pp. x+378. 25 cents. (Washington, D.C.: Government Printing Office.)

Forest Bulletin No. 82: The Measurement of Standing Sample Trees. By H. G. Champion. Pp. iii+17+5 plates. (Delhi: Manager of Publications.) 1.2 rupees; 2s.

Koninklijk Vereeniging "Koloniaal Instituut", Amsterdam. Drie en twintigste Jaarverslag, 1933. Pp. 96. (Amsterdam.)

Smithsonian Miscellaneous Collections. Vol. 89, No. 13: A Systematic Classification for the Birds of the World, Revised and Amended. By Alexander Wetmore. (Publication 3242.) Pp. 11. Vol. 91, No. 9: Reports on the Collections obtained by the first Johnson-Smithsonian Deep-Sea Expedition to the Puerto Rican Deep—Three New Deep-water Fishes from the West Indies. By George S. Myers. (Publication 3238.) Pp. 12+1 plate. Vol. 91, No. 10: Reports on the Collections obtained by the first Johnson-Smithsonian Deep-Sea Expedition to the Puerto Rican Deep—New Brachiopods. By G. Arthur Cooper. (Publication 3241.) Pp. 5+2 plates. Vol. 91, No. 11: Reports on the Collections obtained by the first Johnson-Smithsonian Deep-Sea Expedition to the Puerto Rican Deep—Two New Nematodes. By B. G. Chitwood. (Publication 3243.) Pp. 4+1 plate. (Washington, D.C.: Smithsonian Institution.)

Chamber of Commerce of the State of New York. A Report of the Special Committee on Immigration and Alien Insane, submitting a Study on Immigration-Control. By Harry H. Laughlin. Pp. 51. (New York City.)

Bulletin of the Earthquake Research Institute, Tokyo Imperial University. Supplementary Vol. 1: Papers and Reports on the Tsunami of 1933 on the Sanriku Coast, Japan. Pp. xii+271+250+251 plates. (Tokyo: Iwanami Shoten.) 12.50 yen.

The Upper Winds of Hong Kong: from Observations made with Pilot Balloons, 1921-1932. By G. S. P. Heywood, under the direction of C. W. Jeffries. Pp. 13+18 plates. (Hong Kong: Royal Observatory.) 2 dollars.

Research Activities of the National Research Council, 1933-34. Pp. 59. (Ottawa.)

Department of Agriculture, Mauritius: Sugarcane Research Station. Bulletin No. 3: Some Preliminary Data concerning the Best Shape and Size of Plot for Field Experiments with Sugarcane. By Dr. H. Evans. Pp. 11+2 plates. (Port Louis: Government Printer.)

Publications of the Dominion Astrophysical Observatory, Victoria, B.C. Vol. 6, No. 9: Spectrophotometric Studies of Wolf Rayet Stars and Novae. By C. S. Beals. Pp. 95-148. Vol. 6, No. 10: The Radial Velocities of 477 Stars. By W. E. Harper. Pp. 151-202. Vol. 6, No. 11: The Spectroscopic Orbit of H.R. 8584. By W. E. Harper. Pp. 203-206. (Ottawa: King's Printer.)

The Indian Forest Records. Vol. 19, Part 9: Entomological Investigations on the Spike Disease of Sandal (19): On the Life-History and Morphology of *Petaloccephala virgilinea* Walk., (*Jassidea*, Hompt.) By N. C. Chatterjee. Pp. iii+30+2 plates. (Delhi: Manager of Publications.) 12 annas; 1s. 3d.

The Tea Research Institute of Ceylon. Bulletin No. 11: Annual Report for the Year 1933. Pp. 75+2 plates. (Kandy.)