

Yeringian—*C. cresswelli* and *C. subcæspitosum*, the latter closely resembling the Devonian *cæspitosum* of Devonshire and the Eifel and helping to strengthen the Devonian element in the Australian Silurian. In Spongophyllum there are two new species, one from the Yeringian of Victoria, *S. stevensi*, related to *S. sedgewicki*; the other, *S. shearsbii*, from the Yass beds of New South Wales. The genus *Columnaria* is represented by a new species from the Melbournian, *C. flemingtonensis*, preserved as a faithful negative mould in a fine ferruginous mudstone.—Miss Leslie Kerr: The lignotubers of Eucalypt seedlings. The lignotubers are embryonic storage organs, and not pathological as was previously supposed. These basal inflations of the stem attain their maximum development in the species inhabiting the most arid areas, while six species inhabiting regions of high rainfall do not develop them.

August 14.—Prof. T. H. Laby in the chair.—E. Kidson: Some periods in Australian weather. Recent work was described in extension of Dr. Braak's theories regarding a three-year period, especially clearly shown in the pressure variations at Port Darwin. Strong evidence of an 18-months cycle in the atmosphere, of opposite phase in eastern and western hemispheres, equivalent to a nutation of the whole circulation system, was adduced. Characteristic annual variations of the velocity, pressure, and latitude of anticyclones were evolved. A high correlation was established between the annual latitude range of anticyclones and sun-spot numbers.—E. J. Dunn: The centenary of Selwyn the geologist.

Official Publications Received.

British Museum (Natural History). British Birds: Summer Visitors. (Set C.11.) 5 cards in colour. British Birds: Winter Visitors. (Set C.12.) 5 cards in colour. (London: British Museum (Natural History).) 1s. each set.

The British Mycological Society Transactions. Edited by C. Rea and J. Ramsbottom. Vol. 9, Part 4, August. (London: Cambridge University Press.) 7s. 6d. net.

British Museum (Natural History). British Flowering Plants. Series 3. 5 cards in colour. (Set F.6.) British Flowering Plants. Series 4. 5 cards in colour. (Set F.7.) (London: British Museum (Natural History).) 1s. each set.

Mémoires de la Société de Physique et d'Histoire Naturelle de Genève. Vol. 40, Fascicule 1: La détermination des plagioclases dans les coupes minces. Par L. Duparc et M. Reinhard. Pp. 149+13 planches. (Genève: Georg et Cie.) 20 francs.

The Physical Society of London. Proceedings, Vol. 36, Part 5, August 15. Pp. xxii+341-442. (London: Fleetway Press, Ltd.) 6s. net.

Decimal Metric Congress, London, July 9th, 1924. A Conference held for the Purpose of Considering the most effective Means of securing the adoption of Decimal Coinage and the Metric System. Pp. 48. (London: Decimal Association.)

Transactions of the Natural History Society of Northumberland, Durham, and Newcastle-upon-Tyne. (New Series.) Vol. 6, Part 1. Pp. 114+lxii. (London: Williams and Norgate.) 5s.

Department of Mines: Memoirs of the Geological Survey of New South Wales. Geology, No. 8, Supplement: The Geology of the Broken Hill District. By E. C. Andrews. Supplementary Note on the Geology of the Broken Hill District. Pp. 27+9 plates. (Sydney: Alfred J. Kent.) 21s.

Memoirs of the Geological Survey of India. Palaeontologia Indica. New Series, Vol. 7, Memoir No. 4: An Incomplete Skull of Dinotherium, with Notes on the Indian Forms. By the late Capt. R. W. Palmer. Pp. ii+14+3 plates. 1.2 rupees. New Series, Vol. 9, Memoir No. 1: On the Blake Collection of Ammonites from Kachh, India. By Dr. L. F. Spath. Pp. ii+29. 12 annas. (Calcutta: Geological Survey of India.)

Bureau of Education, India. Indian Education in 1922-23. Pp. iv+45. (Calcutta: Central Publication Branch.) 8 annas; 9d.

Proceedings of the Royal Society of Edinburgh, Session 1923-1924. Vol. 44, Part 2, No. 16: On Mixed Determinants. By R. Vaidyanathaswamy. Pp. 168-184. 1s. 6d. Vol. 44, Part 2, No. 17: The Ultra-Violet Emission Spectra of the Halogens. By Dr. E. B. Ludlam and W. West. Pp. 185-196. 1s. Vol. 44, Part 2, No. 18: The Budde Effect in Bromine. By Dr. E. B. Ludlam. Pp. 197-201. 9d. Vol. 44, Part 2, No. 19: Apparatus to facilitate the Use of an Oxygen-Carbon Dioxide Mixture in the Treatment of Carbon Monoxide Poisoning. By Prof. Henry Briggs. Pp. 202-205. 9d. (Edinburgh: R. Grant and Son; London: Williams and Norgate.)

University of Liverpool Tidal Institute. Fifth Annual Report, 1924. Pp. 8. (Liverpool.)

Proceedings of the Geologists' Association. Edited by G. M. Davies. Vol. 35, Part 3, August 25th. Pp. 169-264. (London: E. Stanford, Ltd.) 5s.

The Memoirs of the Imperial Marine Observatory, Kobe, Japan. Vol. 1, No. 4, August. Pp. vi+137-239+49+46 plates (Kobe.)

Union of South Africa: Department of Agriculture. Science Bulletin No. 34: Kemp Fibres in the Merino Sheep. By Prof. J. E. Duerden and Miss M. Ritchie. Pp. ii+18. (Cape Town.) 3d.

Prospectus of the Royal College of Art, S. Kensington, London. Session 1924-1925. Pp. iv+28. (London: H.M. Stationery Office.) 6d. net.

Department of Scientific and Industrial Research. Summary of Progress of the Geological Survey of Great Britain and the Museum of Practical Geology for the Year 1923; with Report of the Geological Survey Board and Report of the Director. Pp. iv+173. (London: H.M. Stationery Office.) 4s. net.

The University of Birmingham: Faculty of Science. Careers to which Subjects may lead and other Information. Pp. 31. (Birmingham.)

Collective Index of the Journal of the Institute of Brewing, 1911 to 1923. Compiled by W. H. Bird. Pp. iv+330. (London: Harrison and Sons, Ltd.)

Imperial Department of Agriculture for the West Indies. Report on the Agricultural Department, Grenada, January-December 1923. Pp. iv+14. (Grenada: Government Printing Office.) 6d.

Merchant Venturers' Technical College. Calendar for the Sixty-ninth Session, 1924-25. Pp. 55+17 plates. (Bristol.) 6d.

Diary of Societies.

MONDAY, OCTOBER 6.

SOCIETY OF ENGINEERS (at Geological Society), at 5.30.—E. Kilburn Scott: Pulverised Fuel.

INSTITUTE OF TRANSPORT (at Institution of Electrical Engineers), at 5.30.—Sir Lynden Macassey: Presidential Address.

TUESDAY, OCTOBER 7.

INSTITUTE OF PETROLEUM TECHNOLOGISTS (at Royal Society of Arts), at 5.30.—Dr. A. E. Dunstan: Recent Development in the Art of Cracking.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—E. B. Cook: The Glory of the Garden.

WEDNESDAY, OCTOBER 8.

MEDICAL OFFICERS OF SCHOOLS ASSOCIATION (at 11 Chandos Street, W.), at 5.—Dr. R. Hutchison and others: Discussion on The Relative Values of Stone-milled and other Flours and Breads in relation to the Nutrition of the Growing Child.

NEWCOMEN SOCIETY (at Iron and Steel Institute), at 5.30.—Rhys Jenkins: A Sketch of the Industrial History of the Coalbrookdale District.—T. S. Ashton: The Discoveries of the Darbys of Coalbrookdale.—J. W. Hall: Notes on Coalbrookdale and the Darbys.

THURSDAY, OCTOBER 9.

INSTITUTION OF AUTOMOBILE ENGINEERS (Graduates' Meeting) (at Water-gate House, Adelphi), at 7.30.

OPTICAL SOCIETY, at 7.30.—E. T. Hanson: Some Problems in the Theory of Optical Diffraction.—W. M. Hampton: (a) The Annealing of Glass; (b) The Re-annealing of Glass.

FRIDAY, OCTOBER 10.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—J. D. Johnston: Wonderlands of the Western Worlds.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—N. Thornton: The Design of Static Sub-stations, with some notes on their Equipment.

SATURDAY, OCTOBER 11.

BRITISH PSYCHOLOGICAL SOCIETY (at University College), at 3.—Prof. C. Spearman: The New Psychology of "Shape" (Gestalt).—S. A. Hamid: Some Factors of Effectiveness in Mental ("Intelligence") Tests.

PUBLIC LECTURES.

MONDAY, OCTOBER 6.

KING'S COLLEGE, at 5.30.—Prof. E. W. Scripture: What the Voice looks like.—Rev. Dr. F. A. P. Aveling: Introduction to Psychology. (Succeeding Lectures on October 13, 20, 27.)

TUESDAY, OCTOBER 7.

UNIVERSITY COLLEGE, at 5.—Prof. G. Dawes Hicks: Philosophy and Psychology.

KING'S COLLEGE, at 5.30.—Prof. H. Wildon Carr: The Philosophy of Bergson: Its Relation to Past Systems and to Present Science. (Succeeding Lectures on October 14, 21, 28, November 4, 11.)

WEDNESDAY, OCTOBER 8.

KING'S COLLEGE, at 4.30.—Dr. C. da Fano: The Histology of the Nervous System. (Succeeding Lectures on October 15, 22, 29, November 5, 12, 19, 26.)—At 5.30.—Prof. R. J. S. McDowall: The Human Body and its Function. (Succeeding Lectures on October 15, 22, 29, November 5.)

BEDFORD COLLEGE FOR WOMEN, at 5.15.—Miss Hosgood: Eastern Australia—Some Problems in Human Geography.

UNIVERSITY COLLEGE, at 6.—Prof. C. Spearman: The Current Views of Individual Differences in Ability.—At 7.—A. H. Barker: The Heating Equipment of a Large Country House.

FRIDAY, OCTOBER 10.

UNIVERSITY COLLEGE, at 5.—Prof. Borenius: History and Art: Painting in the Netherlands and Spain.—At 5.30.—Prof. S. L. Rashkovich: Water Supply and its Purification. (Succeeding Lectures on October 17, 24, 31.)