

sulphate is described in addition to hydrated and anhydrous ammonium-manganous sulphate.—Campholenic acids and amides, by M. A. Béhal. Isomeric acids and amides have been obtained. The solid acid was thought to be the racemic form of the liquid acid, but all attempts to separate optical isomers have failed.—Double combinations of anhydrous aluminium chloride with nitro-compounds of the aromatic series, by M. G. Perrier. A series of compounds of the type  $Al_2Cl_6 \cdot 2C_6H_4 \cdot CH_3 \cdot NO_2$  (1:4) are described, and it is shown that with nitro-derivatives of the type of paranitrotoluene, Friedel and Crafts' reaction fails.—On a possible error by the use of Fehling's solution for the estimation of sugar in urine from persons submitted to treatment with sulphonal, by M. Ph. Lafon.—On the panification of brown bread, by M. James Chappuis.—On the causes which produce the colour of brown bread, by M. Léon Boutroux. Gluten may give the colour in bread by desiccation, but not by fermentation. By oxidation with air in presence of water, bran may produce the colouration of bread; but, again, fermentation has no such effect. The acidity of the yeast is a protection against browning.—On the ethology of the genus *Thaumaleus Kröyer*, by M. Alfred Giard.—Observations on the hornets, by M. Charles Janet.—New researches on "la brunissure," by M. F. Debray.—Action of static sparks on the local temperature of regions submitted to this method of franklinisation, by M. H. Bordier.—Treatment of a case of sarcoma by serotherapy, by MM. J. Héricourt and Ch. Richet.—The catastrophe of Laibach, April 14, 1895, by M. Ch. V. Zenger.

## WASHINGTON.

**National Academy of Sciences**, April 16-20.—On some variations in the genus *Eucope*, by A. Agassiz and W. McM. Woodworth; notes on the Florida reef, by A. Agassiz; the progress of the publications on the expedition of 1891 of the U.S. Fish Commission Steamer *Albatross*, Lieut. Commander Z. L. Tanner commanding, by A. Agassiz; on soil bacteria, by M. P. Ravenel; a linkage showing the laws of the refraction of light, by A. M. Mayer; on the colour relations of atoms, ions and molecules, by M. Carey Lea; mechanical interpretation of the variations of latitude, by R. S. Woodward; on a new determination of the nutation-constant, and some allied topics, by S. C. Chandler; on the secular motion of a free magnetic needle, by L. A. Bauer; on the composition of expired air, and its effect upon animal life, by J. S. Billings; systematic catalogue of European fishes, by Th. Gill; the extinct cetacea of North America, by E. D. Cope; on the application of a percentage method in the study of the distribution of oceanic fishes—(1) definition of eleven faunas and two sub-faunas of deep sea fishes, (2) the relationships and origin of the Carribeo-Mexican and Mediterranean sub-faunas, by G. Brown Goode; on the two isomeric chlorides of ortho-sulpho-benzoic acid, by Ira Remsen; on some compounds containing two halogen atoms in combination with nitrogen, by Ira Remsen; presentation of the Watson Medal to Mr. Seth C. Chandler, for his researches on the variation of latitudes, on variable stars, and for his other works in astronomy; biographical memoir of Dr. Lewis M. Rutherford, by B. A. Gould; relation of Jupiter's orbit to the mean plane of four hundred and one minor planet orbits, by H. A. Newton; orbit of Miss Mitchell's Comet, 1847 VI, by H. A. Newton.

## NEW SOUTH WALES.

**Linnean Society**, March 27.—Prof. David in the chair.—The President delivered the annual address, in the course of which reference was made to the recent suit in the Equity Court, in which the Society was defendant, brought by the University of Sydney to obtain the declaration of the Court as to the construction of so much of the will of the late Sir William Macleay as relates to his bequest of £12,000 for the endowment of bacteriology; and the full text of the judgment of his Honour the Chief Judge in Equity was read. After summarising the contributions to science made during the year by the various local scientific institutions and departments, the President passed on to consider at some length the subject of recent research in the Arctic and Antarctic regions, and especially the important question outlined by Dr. John Murray, namely, that of the desirability of a laborious and systematic exploration of the whole Antarctic region with all the appliances of the modern investigator. The following gentlemen were elected office-bearers and Council for 1895. President: Henry Deane. Vice-Presidents: Dr. James C. Cox, Prof. W. A. Haswell, Prof. T.

W. E. David. Treasurer: The Hon. James Norton. Council: John Brazier, Cecil W. Darley, Thomas Dixon, J. R. Garland, Arnold U. Henn, A. H. S. Lucas, J. H. Maiden, C. J. Martin, Perceval R. Pedley, P. N. Trebeck, Thomas Whitelegge, Prof. J. T. Wilson.

## BOOKS, PAMPHLETS, and SERIALS RECEIVED.

**BOOKS.**—Elements of Health: Dr. L. C. Parkes (Churchill).—A Treatise on Practical Chemistry: Dr. F. Clowes, 6th edition (Churchill).—Chemical Technology, edited by Groves and Thorp. Vol. 2. Lighting (Churchill).—Fern-Growing: E. J. Lowe (Nimmo).—Le Centenaire de l'École Normale (Paris, Hachette).—Le Cause dell' Era Glaciale: L. de Marchi (Pavia, Fratelli Fusi).—Die Lehre von der Elektrizität und deren Praktische Verwendung: Th. Schwartz (Leipzig, Weber).—Physikalische Kristallographie: P. Groth, Dritte Auflage, 3 Abthg. (Leipzig, Engelmann).—Low's Chemical Lecture Charts (Low).—Die Photographie ein Handbuch für Fach- und Amateur-Photographen: A. Hertzka (Berlin, Oppenheim).—Object-Lessons in Botany: E. Snelgrove, Book 2 (Jarrod).—Dakota Grammar, Texts and Ethnography: S. R. Riggs (Washington).—Eleventh and Twelfth Annual Reports of the Bureau of Ethnology: J. W. Powell (Washington).

**PAMPHLETS.**—Royal Gardens, Kew: Official Guide to the Museums of Economic Botany, No. 2 (London).—The Franklin Institute: W. H. Wahf (Philadelphia).—Royal Gardens, Kew: Hand-List of Ferns and Fern-Allies cultivated in the Royal Gardens (Eyre and Spottiswoode).—Myodes lemms, its Habits and Migrations in Norway (Christiania).—List of the Publications of the Bureau of Ethnology, &c. (Washington).—An Ancient Quarry Indian Territory: W. H. Holmes (Washington).

**SERIALS.**—Humanitarian, May (Hutchinson).—Record of Technical and Secondary Education, April (Macmillan).—British Moss-Flora: Dr. B. Brathwaite, April (the Author, Clapham Road).—Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie, Zwanzigster Band, 3 Heft (Leipzig, Engelmann).—Fortnightly Review, May (Chapman).—Internationales Archiv für Ethnographie, Band viii. Heft 2 (Leiden, Brill).—Philosophical Society of Washington, Bulletin Vol. xiii. pp. 31-76 (Washington).—Zeitschrift für Physikalische Chemie, xvi. Band, 4 Heft (Leipzig, Engelmann).—L'Anthropologie, tome vi. No. 2 (Paris, Masson).—Scribner's Magazine, May (Low).—Geological Magazine, May (Dulau).—Quarterly Journal of the Geological Society, Vol. li. Part 2, No. 202 (Longmans).—Geographical Journal, May (Stanford).

## CONTENTS.

PAGE

The Pygmies. By Sir W. H. Flower, K.C.B., F.R.S. . . . . .	25
An Attempt to Popularise Evolution . . . . .	26
Steel and the New Iron-Alloys. By John Parry . . . . .	26
Our Book Shelf:—	
Step: "Wayside and Woodland Blossoms. A Pocket Guide to British Wild Flowers for the Country Rambler."—W. B. H. . . . .	27
Barrett: "The Lepidoptera of the British Islands."—W. F. K. . . . .	27
Haas: "Quellenkunde. Lehre von der Bildung und vom Vorkommen der Quellen und des Grundwassers" . . . . .	28
Letters to the Editor:—	
Uniformitarianism in Geology.—Prof. Joseph Prestwich, F.R.S. . . . .	28
Green Oysters.—Prof. E. Ray Lankester, F.R.S. . . . .	28
The Origin of the Cultivated Cineraria.—W. Bateson, F.R.S. . . . .	29
The Assumptions in Boltzmann's Minimum Theorem.—G. H. Bryan . . . . .	29
The Unit of Heat.—E. H. Griffiths; Prof. Oliver J. Lodge, F.R.S. . . . .	30
The Examination Curve. ( <i>With Diagram</i> ).—F. Howard Collins . . . . .	30
Teaching Young Pheasants to Peck.—S. E. Peal . . . . .	30
The Bagdad Date-mark.—Colonel A. T. Fraser . . . . .	31
The Royal Society Selected Candidates. . . . .	31
April Meteors. By W. F. Denning . . . . .	33
Notes . . . . .	33
Our Astronomical Column:—	
Relative Densities of Terrestrial Planets . . . . .	37
The Orbit of Comet 1893 IV. (Brooks) . . . . .	37
The Spectrum of Mars . . . . .	37
The Astronomical Society of France . . . . .	37
The Royal Society Conversazione. ( <i>Illustrated</i> ). . . . .	37
The Rarer Metals and their Alloys. II. ( <i>Illustrated</i> ). . . . .	39
By Prof. W. C. Roberts-Austen, C.B., F.R.S. . . . .	39
Electricity and Optics . . . . .	42
Science in the Magazines . . . . .	43
University and Educational Intelligence . . . . .	44
Scientific Serials . . . . .	45
Societies and Academies . . . . .	45
Books, Pamphlets, and Serials Received . . . . .	48