PROCEEDINGS

OF THE

ROYAL SOCIETY OF EDINBURGH.

https://doi.org/10.1017/S0370164600024354 Published online by Cambridge University Press

PROCEEDINGS

of

THE ROYAL SOCIETY

OF

EDINBURGH.

VOL. XXVI.

NOVEMBER 1905 TO JULY 1906.

E D I N B U R G H : PRINTED BY NEILL AND COMPANY, LIMITED. NDCCCCVII.

https://doi.org/10.1017/S0370164600024354 Published online by Cambridge University Press

CONTENTS.

	PAGE
Office-Bearers, Session 1905-6,	1
Some Electrical Measurements on Metals. By Charles E. Fawsitt, D.Sc., Ph.D. Communicated by Professor A. Crum Brown. Issued separately February 12, 1906,	2
The Tarpan and its Relationship with Wild and Domestic Horses. By J. C. Ewart, M.D., F.R.S. (With Three Plates.) Issued separately February 12, 1906,	7
The Horse in Norway. By Francis H. A. Marshall, M.A. (Cantab.), D.Sc. (Edin.). (With Two Plates.) Issued separately February 12, 1906,	22
Notes on the Effect of Electric Oscillations (co-directional and transverse) on the Magnetic Properties of Iron. By James Russell. Issued separately February 8, 1906,	33
On a Theorem in Hypercomplex Numbers. By J. H. Maclagan- Wedderburn, Carnegie Research Fellow. Issued separately February 9, 1906,	48
Library Aids to Mathematical Research. By Thomas Muir, LL.D. Issued separately February 14, 1906,	51
 Bathydraco Scotiæ, Poisson abyssal nouveau recueilli par l'Expédition Antarctique Nationale Écossaise. Note préliminaire, par Louis Dollo, Conservateur au Musée royal d'Histoire naturelle, à Bruxelles. Présentée par M. R. H. Traquair, M.D., F.R.S., V.P.R.S.E. Issued separately March 29, 1906, 	65
Some Further Results obtained with the Spectroheliometer. By Dr J. Halm. Issued separately March 29, 1906,	76
Preliminary Note regarding an Experimental Investigation into the Effects of Varying Diets upon Growth and Nutrition. By Chalmers Watson, M.D. (From the Physiological Laboratory of the University of Edinburgh.) Presented by Professor E. A. Schäfer, F.R.S. Issued separately February 22, 1906, .	87
A Contribution to the Study of the Excretion of Allantoin in Thymus Feeding. By W. McLachlan, M.D. (From the Research Laboratory of the Royal College of Physicians, Edin- burgh.) Communicated by Dr D. Noël Paton. Issued	
separately March 29, 1906,	95

On the Formation of Certain Lakes in the Highlands. By Dr Léon W. Collet, F. Swiss Geol. S., Assistant to Sir John Murray, K.C.B., and Dr T. N. Johnston, F.R.S.E. With a Note on Two Rock Basins in the Alps, by Dr Léon W. Collet. Issued separately April 16, 1906,	раде 107
On the Distribution of the Proper Fractions. By Duncan M. Y. Sommerville, D.Sc. Communicated by Professor Chrystal. Issued separately April 16, 1906,	116
On Vibrating Systems which are not subject to the Boltzmann- Maxwell Law. By Dr W. Peddie. Issued separately May 24, 1906,	130
Some Experimental Results in connection with the Hydro- dynamical Theory of Seiches. By Peter White, M.A., and William Watson. Issued separately June 11, 1906,	142
On the Methods of Standardising Suprarenal Preparations. By I. D. Cameron, M.B., D.P.H., Assistant to the Lecturer on Physiology, Edinburgh School of Medicine for Women. (From the Laboratory of the Royal College of Physicians, Edinburgh.) Communicated by Dr D. Noël Paton. Issued separately May 21, 1906,	157
Neobythites Brucei, Poisson abyssal nouveau recueilli par l'Expédition Antarctique Nationale Écossaise. Note pré- liminaire, par Louis Dollo, Conservateur au Musée royal d'Histoire naturelle, à Bruxelles. Présentée par M. R. H. Traquair, M.D., F.R.S., V.P.R.S.E. Issued separately June 14, 1906,	172
The Relation between Normal Take-up or Contraction and Degree of Twist in Twisted Threads. By Thomas Oliver, B.Sc. (Lond. & Edin.), Carnegie Research Fellow. <i>Communicated by</i> Dr C. G. Knott. Issued separately June 19, 1906,	182
A New Form of Harmonic Synthetiser. By J. R. Milne, B.Sc., Carnegie Research Fellow. (With Plate.) Issued separately July 12, 1906,	207
Preliminary Note on the Conductivity of Concentrated Aqueous Solutions of Electrolytes. By Professor J. Gibson. Issued separately August 29, 1906,	234
Recherches sur la Glauconie. Par les Drs Léon W. Collet et Gabriel W. Lee, assistants de Sir John Murray, K.C.B. Communiqué par Sir John Murray. (Avec 12 planches et 1 carte.) Issued separately August 30, 1906,	238
Notes :1. On a Human Skeleton, with Prehistoric Objects, found at Great Casterton, Rutland. 2. On a Stone Cist containing a Skeleton and an Urn, found at Largs, Ayrshire. By Dr Robert Munro. With a Report on the Urn, by the Hon. John Abercromby; and on the Skulls, by Professor D. J. Cunningham. Issued separately August 31, 1906,	279
Note on a rare Dolphin (<i>Delphinus acutus</i>), recently stranded on the Coast of Sutherland. By Sir William Turner, K.C.B., F.R.S. (With Plate.) Issued separately August 29, 1906,	310

11		1 .		
11	nn	1.01	nts	2

	PAGE
Contributions to the Craniology of the People of the Empire of India. Part III.: Natives of the Madras Presidency, Thugs, Veddahs, Tibetans, and Seistanis. By Sir William Turner, K.C.B. <i>Title only</i> ,	320
Note on the Smolt to Grilse Stage of the Salmon, with Exhibition of a Marked Fish recaptured. By W. L. Calderwood. Issued separately October 12, 1906,	321
Two Lecture Experiments in illustration of the Theory of Ionization. By Dr W. W. Taylor. Communicated by Professor Crum Brown. Issued separately October 12, 1906,	3 25
A Dietary Study of Five Halls of Residence for Students in Edinburgh. By I. D. Cameron, M.B., D.P.H. Communicated by D. Noël Paton, M.D. Issued separately November 9, 1906,	327
Further Study of the Two Forms of Liquid Sulphur as Dynamic Isomers. By Alexander Smith and C. M. Carson. Issued separately November 12, 1906, .	352
The Theory of Alternants in the Historical Order of Development up to 1860. By Thomas Muir, LL.D. Issued separately November 16, 1906,	357
The Theory of Circulants in the Historical Order of Development up to 1860. By Thomas Muir, LL.D. Issued separately November 16, 1906,	390
 Initiation of Deep-Sea Waves of Three Classes: (1) from a Single Displacement; (2) from a Group of Equal and Similar Displacements; (3) by a Periodically Varying Surface Pressure. By Lord Kelvin. Issued separately November 17, 1906, 	399
"Scotia" Collections. On Echinorhynchus antarcticus, n. sp., and its Allies. By John Rennie, D.Sc., University of Aberdeen. Communicated by Wm. S. Bruce, Esq. (With a Plate.) Issued separately January 4, 1907,	437
Electrolysis through Precipitation Films. Part I. By W. S. Millar, M.A., B.Sc., Carnegie Research Scholar, and Dr W. W. Taylor. <i>Communicated by</i> Professor Crum Brown. Issued separately January 4, 1907,	447
Nematodes of the Scottish National Antarctic Expedition, 1902–1904. By Dr v. Linstow, Göttingen. Communicated by W. S. Bruce. (With Two Plates.) Issued separately January 4, 1907.	464
Scottish National Antarctic Expedition. "Scotia" Collections. Collembola from the South Orkney Islands. By George H. Carpenter, B.Sc., M.R.I.A., Professor of Zoology in the Royal College of Science, Dublin. (With Two Plates.) Communi- cated by William Evans, Esq. Issued separately January 14, 1907,	473
Statistical Studies in Immunity: The Theory of an Epidemic. By John Brownlee, M.D. (Glas.). Communicated by Dr R. M. Buchanan. Issued separately January 14, 1907,	484

vii

On a Simple Way of Obtaining the Half-Shade Field in Polari- meters. By James Robert Milne, B.Sc., Carnegie Research Fellow. Issued separately January 14, 1907,	page 522
On an Exception to a Certain Theorem in Optics, with an Application to the Polarimeter. By James Robert Milne, B.Sc., Carnegie Research Fellow. Issued separately January 14, 1907,	527
The Hessians of Certain Invariants of Binary Quantics. By Thomas Muir, LL.D. Issued separately January 16, 1907,	529
The Sum of the <i>r</i> -line Minors of the Square of a Determinant. By Thomas Muir, LL.D. Issued separately January 16, 1907.	533
OBITUARY NOTICES,	540
Meetings of the Royal Society-Session 1905-1906,	552
Abstract of Accounts for Session 1905–1906,	561
Index,	572