

## GÖTTINGEN.

**Royal Society of Sciences**—The *Nachrichten* (mathematico-physical section), part 3 (1897), contains the following scientific papers communicated to the Society:—

May 29.—E. Wiechert: The distribution of matter in the interior of the globe.

October 30.—W. Wirtinger: Green's function for a region bounded by non-intersecting spherical *continua* of  $n$  dimensions. K. Hensel: Determination of the discriminants of an algebraical *corpus*. K. Hensel: The fundamental equation and the non-essential discriminant-divisors of an algebraical *corpus*.

November 13.—W. Voigt: Further contributions to the kinetic theory of the process of evaporation.

November 27.—A. Hurwitz: The coefficients of development of the lemniscate-functions. G. Landsberg: On modular systems of the second grade and rings of numbers. O. Wallach: Researches from the Göttingen University Chemical Laboratory—(1) Cisomerism and transomerism in the menthol series; (2) ketones ( $C_{10}H_{16}O$ ) from terpinene-nitrite; (3) reduction-products of carvone and eucarvone; (4) a new isomeric camphor from pinene; (5) on pulegic acid; (6) new compounds from methylhexanone; (7) on fenchone-derivatives.

The official section, part 2 (1897), gives the text of an anniversary address by Dr. F. Merkel, on "the forces which mould the forms of animal bodies," and a report on a journey through Colombia and Venezuela by Prof. O. Bürger.

## DIARY OF SOCIETIES.

## THURSDAY, MARCH 3.

ROYAL SOCIETY, at 4.30.—The Relationship of Variations of the Ground Water Level to the Incidence of Malarial Fevers in Chotta Nagpur, Bengal: Dr. L. Rogers.—On the Depletion of the Endosperm of *Horsetum vulgare* during Germination: H. T. Brown, F.R.S., and F. Escombe.—On Apozomy and the Development of Sporangia upon Fern Prothalli: W. H. Lang and G. A. Clark.—Experimental Observations on the Early Degenerative Changes in the Sensory End Organs of Muscles: Dr. F. E. Batten.

ROYAL INSTITUTION, at 3.—Recent Researches in Magnetism and Diamagnetism: Prof. J. A. Fleming, F.R.S.

LINNEAN SOCIETY, at 8.—On the Sense Organs of the Lateral Line in certain Fishes: F. J. Cole.—On the Occurrence of *Carex helvola* in Britain: G. C. Druce.—On Arctic Spiders from Franz Josef Land: Rev. O. Pickard-Cambridge.

CHEMICAL SOCIETY, at 8.—Note on the Preparation of Dry Hydrogen Cyanide and Carbon Monoxide: John Wade and Lawrence C. Ponting.—Production of some Nitro- and Amido-Oxylutidines: Dr. J. N. Collie, F.R.S., and T. Tickle.—Production of some Nitro- and Amido-Oxylutidines: Dr. J. N. Collie, F.R.S., and Miss L. Hall.—The Interaction of Magnesium and Solution of Copper Sulphate: Dr. E. Divers, F.R.S.

## FRIDAY, MARCH 4.

ROYAL INSTITUTION, at 9.—Some Recent Results of Physico-Chemical Inquiry: Prof. T. E. Thorpe, F.R.S.

## MONDAY, MARCH 7.

SOCIETY OF ARTS, at 8.—The Principles of Design in Form: Hugh Stannus.

IMPERIAL INSTITUTE, at 8.30.—The Mineral and other Resources of Newfoundland: J. H. Collins.

VICTORIA INSTITUTE, at 4.30.—The Design of the Human Foot: Gerald Smith.

## TUESDAY, MARCH 8.

ROYAL INSTITUTION, at 3.—The Simplest Living Things: Prof. E. Ray Lankester, F.R.S.

SOCIETY OF ARTS, at 8.—The Making of a Stained Glass Window: Lewis Foreman Day.

ANTHROPOLOGICAL INSTITUTE, at 8.30.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Papers to be further discussed: The Theory Design, and Practical Working of Alternate-Current Motors: Llewelyn B. Atkinson.—Dublin Electric Tramway: H. F. Parshall.—Paper to be read with a view to Discussion: Calcium Carbide and Acetylene: Henry Fowler.

ROYAL AGRICULTURAL SOCIETY.—Floral and Botanical Demonstration

ROYAL PHOTOGRAPHIC SOCIETY, at 8.—The Passage of a few of the Salts used in Photography through Gelatine Septa: A. Haddon.

ROYAL VICTORIA HALL, at 8.30.—A Work of Faraday: Prof. Reinold.

## WEDNESDAY, MARCH 9.

SOCIETY OF ARTS, at 8.—Linde's Method of producing Extreme Cold and Liquefying Air: Prof. J. Ewing, F.R.S.

GEOLOGICAL SOCIETY, at 8.—Note on Clipperton Atoll: Rear-Admiral Sir W. J. Wharton, K.C.B., F.R.S.—A Phosphatised Trachyte from Clipperton Atoll: J. H. Teall, F.R.S.—The Pliocene Deposits of the East of England. Part I. The Lenham Beds and the Coralline Crag: F. W. Harmer.

## THURSDAY, MARCH 10.

ROYAL SOCIETY, at 4.30.

ROYAL INSTITUTION, at 3.—Recent Researches on Magnetism and Diamagnetism: Prof. J. A. Fleming, F.R.S.

SOCIETY OF ARTS (Indian Section), at 4.30.—India and Sir Henry Maine: Charles Lewis Tupper, C.S.I.

MATHEMATICAL SOCIETY, at 8.—The Geodesic Geometry of Surfaces in non-Euclidean Space: A. N. Whitehead.—The Transformation of Linear Partial Differential Operators by Extended Linear Continuous Groups:

Prof. Elliott, F.R.S.—Stereographic Illustrations of Catenaries: Prof. Greenhill, F.R.S., and T. I. Dewar.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—On the Manufacture of Lamps and other Apparatus for 200 volt Circuits: G. Binswanger-Byng.

## FRIDAY, MARCH 11.

ROYAL INSTITUTION, at 9.—Marked Unexplored: W. F. Lord.

ROYAL ASTRONOMICAL SOCIETY, at 8.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Drainage of Cottage Property: H. C. Adams.

MALACOLOGICAL SOCIETY, at 8.

## BOOKS, PAMPHLET, and SERIALS RECEIVED.

BOOKS.—General Report on Public Instruction in the North-West Provinces and Oudh, 1896-97 (Allahabad).—Who's Who, 1898 (Black).—First Year of Scientific Knowledge: P. Bert, revised edition (Relfe).—The Wealth and Progress of New South Wales, 1895-96: T. A. Coghlan, Vol. 2 (Sydney, Gullick).—Das Weltgebäude: Dr. M. W. Meyer (Leipzig, Bibliographisches Institut).—Universal Electrical Directory, 1898 (Alabaster).—The Miner's Arithmetic and Mensuration: H. Davies (Chapman).—A Sketch of the Natural History (Vertebrates) of the British Islands: F. G. Afalo (Blackwood).—Semitic Influence in Hellenic Mythology: R. Brown, jun. (Williams).—A Description of Minerals of Commercial Value: D. M. Barringer (Chapman).—Report on the Economic Resources of the West Indies: Dr. D. Morris (Eyre).—The Electrician Electrical Trades Directory and Handbook for 1898 (*Electrician* Office).—Der Tägliche Wärmeumsatz im Boden und Die Wärmestrahlung Zwischen Himmel und Erde: Dr. T. Homén (Leipzig, Engelmann).—The Chemistry of the Garden: H. H. Cousins (Macmillan).—Note-Book of Agricultural Facts and Figures for Farmers and Farm-Students: P. McConnell, 6th edition (Lockwood).—Notes from a Diary, 1873-1881: Sir M. E. Grant Duff, 2 Vols. (Murray).—Report of Observations of Injurious Insects and Common Farm Pests: E. A. Ormerod, 21st Report (Simpkin).—Grundzüge der Geographisch-Morphologischen Methode der Pflanzensystematik: Dr. R. v. Wettstein (Jena, Fischer).—The Naturalist's Directory, 1898 (Gill).

PAMPHLET.—La Teoria dei Raggi Roentgen: Prof. Filippo Re (Palermo, Reber).

SERIALS.—American Naturalist, January (Boston, Ginn).—Himmel und Erde, February (Berlin, Paetel).—Bulletin of the American Mathematical Society, February (New York, Macmillan).—Natural History Transactions of Northumberland, Durham, and Newcastle-upon-Tyne, Vol. xiii, Part 2 (Williams).—Longman's Magazine, March (Longmans).—Good Words, March (Isbister).—Sunday Magazine, March (Isbister).—Humanitarian, March (Hutchinson).—Chambers's Journal, March (Chambers).—Botanische Jahrbücher, Vierundzwanzigster Band, iv Heft (Leipzig).—Natural Science, March (Dent).—Contemporary Review, March (Isbister).—Century Magazine, March (Macmillan).

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