

## AMSTERDAM.

Royal Academy of Sciences, March 28.—Prof. van de Sande Bakhuyzen in the chair.—Prof. Kamerlingh Onnes exhibited a series of extremely clear photographs, obtained with Röntgen rays by Prof. Haga at Groningen. The exposure did not last longer than one minute.—Prof. Kamerlingh Onnes presented, on behalf of Dr. Siertsema, a paper to be published in the report of the meeting, on measurements of magnetic rotation dispersion in gases.—Prof. Franchimont on the action of nitric acid upon methyl and dimethyl amides at the ordinary temperature. The author showed to what extent the action depends upon the acid-residue of the amides, and proved that the same rules also hold good for the piperidides. For this purpose the author, in conjunction with Dr. van Erp, examined oxal-piperide, which enters into an unstable compound with nitric acid, but is not otherwise influenced, resembling in this tetramethyloxamide, previously studied in conjunction with Mr. Rouffaer. The author and Dr. Taverne examined (1) trichloracetpiperidide, a beautifully crystallised substance, fusing at 45°; (2) benzolsulphonpiperidide; (3) picrylpiperidide; and, as they had expected, they found that the first was not influenced, the second yielded nitropiperidine, and the third a picryldehydronitropiperidide as a red, beautifully crystallised body, fusing at 95°.—Prof. Franchimont further treated of the action of alkalis upon nitramines, in examining which action Dr. van Erp found that a great quantity of nitrous acid is formed. With some nitramines, as nitrohydantoin, nitromethylhydantoin, nitrolacetylureum, nitroamidoacetamide, when treated with baryta-water, the formation of nitrous acid already takes place at a low temperature; others, as nitroacetyl-urea, ethylenedinitro-urea, dinitroglycoluril, &c., behave differently.

## DIARY OF SOCIETIES.

## LONDON.

## THURSDAY, MAY 14.

- ROYAL INSTITUTION, at 3.—The Art of Working Metals in Japan: W. Gowland.  
 SOCIETY OF ARTS, at 4.30.—Tea Planting in Darjeeling: G. W. Christison.  
 MATHEMATICAL SOCIETY, at 8.—On the Application of the Principal Function to the Solution of Delaunay's Canonical System of Equations: Prof. E. W. Brown.  
 INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Influence of the Shape of the Applied Potential Difference Wave on the Iron Losses in Transformers: Stanley Beeton, C. Perry Taylor, and I. M. Barr.  
 FRIDAY, MAY 15.  
 ROYAL INSTITUTION, at 9.—Cable-laying on the Amazon River: Alexander Siemens.  
 EPIDEMIOLOGICAL SOCIETY, at 8.  
 QUEKETT MICROSCOPICAL CLUB, at 8.  
 MONDAY, MAY 18.  
 SOCIETY OF ARTS, at 8.—Applied Electro-chemistry: James Swinburne.  
 ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Journey from Talifu to Assam: H. R. H. Prince Henry of Orleans.  
 VICTORIA INSTITUTE, at 4.30.—Climate in India: Grant "Bey."

## TUESDAY, MAY 19.

- ROYAL INSTITUTION, at 3.—Ripples in Air and on Water: C. V. Boys, F.R.S.  
 SOCIETY OF ARTS, at 8.—Bronze Casting in Europe: George Simonds.  
 ZOOLOGICAL SOCIETY, at 8.30.—On an interesting Variation in the Pattern of the Teeth of a Specimen of the Common Field-Vole: G. E. H. Barrett-Hamilton.—Contributions to the Anatomy of Picarian Birds. No. III. The Anatomy of the Alcedinidæ: F. E. Beddard, F.R.S.  
 INSTITUTION OF CIVIL ENGINEERS, at 8.—The Magnetic Testing of Iron and Steel: Prof. J. A. Ewing, F.R.S.—Magnetic Data of Iron and Steel: Horace F. Parshall.  
 ROYAL STATISTICAL SOCIETY, at 5.  
 PATHOLOGICAL SOCIETY, at 8.30.—Annual Meeting.  
 ROYAL PHOTOGRAPHIC SOCIETY, at 8.—Photo-mechanical Methods in Austria: Ignatz Herbst.  
 ROYAL VICTORIA HALL, at 8.30.—A Visit to Armenia: Prof. A. V. Markoff.

## WEDNESDAY, MAY 20.

- SOCIETY OF ARTS, at 8.—Orthochromatic Photography: Captain W. de W. Abney, F.R.S.  
 ROYAL METEOROLOGICAL SOCIETY, at 7.30.—The Exposure of Anemometers: Richard H. Curtis.  
 ROYAL MICROSCOPICAL SOCIETY, at 8.

## THURSDAY, MAY 21.

- ROYAL SOCIETY, at 4.30.—On the Changes produced in Magnetised Iron and Steels by cooling to the Temperature of Liquid Air: Prof. J. Dewar, F.R.S., and Dr. J. A. Fleming, F.R.S.—Note on the Larva and of the Post-Larval Development of *Leucosolenia variabilis*, n. sp., with remarks on the Development of other Arconidæ: E. A. Minchin.—Helium and Argon. Part III. Experiments which have yielded Negative Results:

Prof. Ramsay, F.R.S., and Dr. Collie.—On the Amount of Argon and Helium contained in the Gas from the Bath Springs: Lord Rayleigh, Sec. R.S.

ROYAL INSTITUTION, at 3.—The Art of Working Metals in Japan: W. Gowland.

CHEMICAL SOCIETY, at 8.—The Diphenylbenzenes. I. Metadiphenylbenzene: F. D. Chattaway and R. C. T. Evans.—Derivatives of Camphoric Acid: Dr. F. S. Kipping.—Some Substances exhibiting Rotatory Power both in the Liquid and Crystalline states: W. J. Pope.

## FRIDAY, MAY 22.

ROYAL INSTITUTION, at 9.—Hysteresis: Prof. J. A. Ewing, F.R.S.  
 PHYSICAL SOCIETY, at 5.—On Dielectrics: R. Appleyard.—The Field of an Elliptical Current: J. Viriamu Jones.—An Instrument for Measuring Frequency: A. Campbell.

## SATURDAY, MAY 23.

GEOLOGISTS' ASSOCIATION (Paddington at 11.45).—Excursion to Chippenham, Calne, Kellaways, and Corsham.

YORKSHIRE NATURALISTS' UNION, at Hellfield.—Four Days' Excursion for the investigation of Bowland.

## BOOKS, PAMPHLET, and SERIALS RECEIVED.

BOOKS.—Alembic Club Reprints. No. 12. The Liquefaction of Gases: M. Faraday (Edinburgh, Clay).—Report on the Work of the Horn Scientific Expedition to Central Australia. Part 2. Zoology (Dulau).—Hausaland: C. H. Robinson (Low).—A Theoretical and Practical Treatise on the Manufacture of Sulphuric Acid and Alkali: Dr. G. Lunge, Vol. 3, 2nd edition (Gurney).—Electric Lighting and Power Distribution: W. P. Maycock, 3rd edition, 2 Vols., Vol. 1 (Whittaker).—The Whence and the Whither of Man: Prof. J. M. Tyler (Blackwood).—Graphical Calculus: A. H. Barker (Longmans).—A Handbook to the Order Lepidoptera: W. F. Kirby. Part 1. Butterflies, Vol. 2 (Allen).—Les Rayons X: Dr. C. E. Guillaume, deux édition (Paris, Gauthier-Villars).—Regenwaarnemingen in Nederlandsch-Indië, 1894 (Batavia).—Observations made at the Magnetical and Meteorological Observatory at Batavia, 1894 (Batavia).  
 PAMPHLET.—On Germinal Selection: A. Weismann (Open Court Publishing Company).  
 SERIALS.—Bulletin de L'Académie Royale des Sciences, 1896, No. 3 (Bruxelles).—Centralblatt für Anthropologie, &c., 1896, Heft 2 (Breslau).—American Journal of Science, May (New Haven).—Journal of the Franklin Institute, May (Philadelphia).—Psychological Review, May (Macmillan).

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