iron boats containing lithium, and collect argon over mercury at the exit end of the apparatus .- On the spectra of selenium and some natural selenides, by M. A. de Gramont. The minerals examined are: Berzéline Cu_2 Se, Zorgite (PbCu₂) Se, Clausthalite PbSe, Eucaïrite Cu_2 Se. Ag₂Se, Guanajuatite or Frenzélite Bi₂Se₃.—On the estimation of thiophene in benzene, by M. G. Deniges. Two methods are given, both depending on the use of the mercury reagent previously described. In aqueous solution the reagent precipitates the compound $(SO_4 H_gOH_g)_2.C_4H_4S$ when heated with the impure benzene in a closed flask at 100° for about fifteen minutes with frequent In methyl alcohol solution the precipitate SO4(HgO)2 shaking. In Hg.C₄H₄S is produced; in this case the benzene miscible with the reagent, and hence the reaction is much facilitated.—On the action of potassium permanganate on various organic substances, by M. E. Maumené.—On the calcium phosphate of milk, by M. L. Vaudin. The conclusions are drawn that: (1) Milk contains citric acid as alkaline citrate, which aids in keeping its calcium phosphate in solution. (2) This solution occurs owing to the effect of lactose in preventing the precipitation of calcium citrate from solution. (3) Every influence modifying or destroying the molecular equilibrium of the salts dissolved in milk, tends to precipitate tricalcic phosphate together with calcium citrate.-The sandstone of Taveyannaz and its relationships with the "flysch," by MM. L. Duparc and E. Ritter.—On the calcium carbonate of lake-waters, by M. André Delebecque.—On the connection of latitudinal displacements of lines of barometric maxima with the movements in declination of the moon, by M. A. Poincaré. The mean atmospheric conditions are powerfully and regularly influenced by the moon at each tropical revolution, and at each revolution of the node.

DIARY OF SOCIETIES.

LONDON

THURSDAY, APRIL 18. LINNEAN SOCIETY, at 8.—Observations on the Loranthaceæ of Ceylon; F. W. Keeble.

FRIDAY, APRIL 19.

QUEKETT MICROSCOPIC CLUB, at 8. MALACOLOGICAL SOCIETY, at 8.

SATURDAY, APRIL 20. GEOLOGISTS' ASSOCIATION (Cannon Street Station, at 2.30.—Excursion to Charlton. Director: T. V. Holmes.

MONDAY, APRIL 22.

MEDICAL SOCIETY, at 8.30.

TUESDAY, APRIL 23. ROYAL INSTITUTION, at 3.—Alternating and Interrupted Electric Cur-rents: Prof. G. Forbes, F.R.S. INSTITUTION OF CIVIL ENGINEERS, at 8.

- INSTITUTION OF CIVIL ENGINEERS, at 8. ROVAL HORTICULTURAL SOCIETY, at 1.—Conference on Primulas. ROVAL STATISTICAL SOCIETY (Royal United Service Institution), at 5.— Progress of Friendly Societies and similar Institutions during the Ten Years 1884-94 : E. W. Brabrook.—Some Illustrations of Friendly Society Finance : Rev. J. Frome Wilkinson. ROVAL MEDICAL AND CHRIVERGICAL SOCIETY, at 8.30. ROVAL PHOTOGRAPHIC SOCIETY, at 8.

SOCIETY OF ANTIQUARIES, 21 2.

- WEDNESDAY, APRIL 24. INSTITUTION OF MECHANICAL ENGINEERS (Royal United Service Institu-tion), at 7.30.—Discussion of the Governing of Steam Engines by Throttling and by Variable Expansion: Captain H. R. Sankey.—Third Report to the Alloys Research Committee: Prof. W. C. Roberts-Austen, C.B., F.R.S. GEOLOGICAL SOCKETY at ² Oct 10.001
- U.B., F.K.S. GEOLOGICAL SOCIETY, at 8. On the Shingle Beds of Eastern East Anglia : Sir Henry H. Howorth, M.P., F.R.S. An Experiment to illustrate the Mode of Flow of a Viscous Fluid : Prof. W. J. Sollas, F.R.S. Supple-mentary Notes on the Systematic Position of the Trilobites : H. M. Bernard.

BRITISH ASTRONOMICAL ASSOCIATION, at 5. SOCIETV OF ARTS, at 8.

THURSDAY, APRIL 25.

ROVAL SOCIETY, at 4.30 ROVAL INSTITUTION, at 3.—The Liquefaction of Gases: Prof. J. Dewar, F.R.S.

- ROYAL INSTITUTION, at 3.— The Edgueraction of Gases: Prof. J. Dewar, F.R.S.
 CAMERA CLUB, at 8.15.— Photo-etching Printing: Leon Warnerke.
 NUMISWATIC SOCHETY, at 7.
 CHEMICAL SOCHETY, at 7.— The Action of Nitrosyl Chloride on Amides: Prof. Tilden, F.R.S., and Dr. M. O. Forster.— The Action of Nitrosyl Chloride on Asparagine and Aspartic Acid; Lævo-rotatory Chlorosuccinic Acid: Prof. Tilden, F.R.S., and H. J. Marshall.—On a Property of the Non-luminous Atmospheric Coal Gas Flame: L. T. Wright.—A Constituent of Persian Berries: A. G. Perkin and J. Geldard.—Potassium Nitrosulphate: E. Divers, F.R.S., and T. Haya.—Dortho-sub-tituted Benzoic Acids: Dr. J. J. Sudborough.—Action of Sodium Ethylate on Deoxybenzoin: Dr. J. J. Sudborough.—Action of Sodium Ethylate on Deoxybenzoin: Dr. J. J. Sudborough.
 INSTITUTION OF ELECTRICAL ENGINEERS (the Society of Arts), at 8.—A Magnetic Tester for Measuring Hysteresis in Sheet Iron: Prof. J. A. Ewing, F.R.S.

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FRIDAY, APRIL 26. ROYAL INSTITUTION, at 9.—The Effects of Electric Currents in Iron on its Magnetisation: Dr. John Hopkinson, F.R S. PHVSICAL SOCIETY, at 5.—A Theory of the Synchronous Motor: W. G. Rhodwell.—Note on a Simple Graphic Interpretation of the Determin-antal Relation of Dynamics: G. H. Bryan.

CLINICAL SOCIETY, at 8.30. INSTITUTON OF CIVIL ENGINEERS, at 8.-Brine Pumping: Bernard Godfrey.

INSTITUTION OF MECHANICAL ENGINEERS (Royal United Service Institu-tion), at 7.30.

EPIDEMIOLOGICAL SOCIETY, at 8. - Immunity: Dr. Washbourn. SATURDAY, APRIL 27. ROYAL INSTITUTION, at 3. - English Music and Musical Instruments of the Sixteenth, Seventeenth, and Eighteenth Centuries: Arnold Dol-metsch.

GEOLOGISTS' ASSOCIATION (St. Pancras Station), 'at 9 a.m.-Excursion to Brigstock, Geddington, &c. Directors; B. Thompson and W. D. Crick. ROYAL BOTANIC SOCIETY, at 3.45.

ROVAL BOTANIC SOCIETY, at 3.45.
 BOOKS, PAMPHLETS, and SERIALS RECEIVED. BOOKS.-Field-Path Rambles: W. Miles, series 8 (Taylor).-Alembic Club Reprints-No. 11: Essays of Jean Rey (Edinburgh, Clay).-Results of Rain, River, and Eva poration Observations made in New South Wales during 1893: H. C. Russell (Sydney, Potter).-Progressive Revelation : E. M. Caillard (Murray).-The Schott Methods of the Treatment of Chronic Diseases of the Heart: Dr. W. B. Thorne (Churchil).-Wayside and Woodland Blossoms : E. Step (Ware).-Economic Classics : T. R. Malthus (Macmilian).-Problems and Solutions in Elementary Electricity and Magnetism : W. Slingo and A. Brooker (Longmans).-Lepidoptera of the British Isles : C. G. Barrett, Vol. 2 (L. Reev).-Hydraulic Motors: G. R. Bodmer, and edition (Whittaker).-Queen's College, Galway, Calen-dar for 1894-95 (Dublin, Ponsonby).-Stephen's Catechism of Practical Agriculture, new edition (Blackwood).-A Handbook to the Carnivora. Part 1: Cats, Civets, and Mungoses : R. Lydekker (Allen).-Science Readers: V. T. Murché, Books 1, 2, 3 (Macmilian). PAMPHLETS.-Bacteriological Test of the Purity of Water: E. H. Hankin (Agra).-The Early Relations between Maryland and Virginia : J. H. Latané (Baltimore).-Report of the Manchester Museum, Owens Col-lege, 1894 (Manchester). SERIALS.-Engineering Magazine, April (Tucker).-Journal of the Royal Statistical Society. March (Stanford).-Lournal of the Coyal

lege, 1894 (Manchester). SERIALS.—Engineering Magazine, April (Tucker).—Journal of the Royal Statistical Society, March (Stanford).—Journal of the Chemical Society, April (Gurney).—Journal of the Federated Institutes of Brewing, Nos. 1 and 2 (Harrison).—American Journal of Science, April (New Haven).— Journal of the Sanitary Institute, April (Stanford).—Science Progress, April (Scientific Press, Ltd.)—Bulletins de la Société d'Anthropologie de Paris, No. 9, 1894 (Paris, Masson).—Astrophysical Journal, April (Chicago).

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