

camphor derivatives. Isolauroleone and isolauronic acid: G. **Bianc**. The starting point of these syntheses is α -dimethyladipic acid, the synthesis of which has been described in a previous note. The anhydride of this acid by slow distillation at the ordinary pressure gives 2 : 2-dimethylcyclopentanone. The tertiary alcohol obtained from this by Grignard's reaction on distillation at ordinary atmospheric pressure splits up into water and isolauroleone.— α -Chlorocyclohexanone and its derivatives: L. **Bouveault** and F. **Chereau**. This substance is obtained by chlorinating either cyclohexanone or cyclohexanol in the presence of calcium carbonate. The chlorine in this derivative is reactive, potassium carbonate solution giving α -oxycyclohexanone. Substituted homologues of cyclohexanone are obtained without difficulty by the action of alkyl-magnesium compounds on chlorocyclohexanone; the methyl, ethyl, and isopropyl derivatives are described.—Stereoisomerism in the group of unsaturated $\alpha\beta$ -acyclic compounds: E. F. **Blaise** and P. **Bagard**.—The genus *Mascarenhasia*: Marcel **Dubard**.—A case of a green organ deprived of assimilating power: Jean **Friedel**. The ovary of *Ornithogalum arabicum* is green and contains chlorophyll, but is devoid of assimilating power, although the ovary of *Ornithogalum umbellatum*, which is also green, has a well-developed assimilating power. The difference is possibly due to a superficial alteration of the chlorophyll grains.—The diseases of the coffee plant in the Congo Free State: E. **De Wildeman**.—The replacement of the vibrating muscles of the wing by adipocyte columns in ants after the nuptial flight: Charles **Janet**.—A new myxosporidium of the common tench: Louis **Léger**. This species was discovered in looking for the cause of a heavy mortality of the tench, and is named by the author *Chl. cristatum*. The disease of the fish was due to other causes.—Culture of the spirillum of recurrent African fever in man (tick fever): C. **Levaditi**. Details of the method of culture are given. The virulence of the spirillum was maintained through a long series of cultures.—The pathogeny of tuberculosis: H. **Valié**.—The terraces of the Rhone valley below Lyons: M. **de Lamothe**.—The tectonic and stratigraphical relations of Sicily and Tunis: Émile **Haug**.—The geology of Calabria: Maurice **Lugeon** and Émile **Argand**.—A method of taking samples of sea-water for bacteriological studies: P. **Portier** and J. **Richard**. The construction and use of the apparatus are made clear by four diagrams.—The increase in the flow due to the cold season in the Seine and Loire basins: Edmond **Maillet**.—The mineralisation of subterranean waters and the causes of its variation: F. **Dienert**.—The Abannets of Nimes, Belgium: E. A. **Martel** and E. Van den **Broeck**.

DIARY OF SOCIETIES.

THURSDAY, MAY 31.

ROYAL SOCIETY, at 4.30.—On the Main Source of "Precipitable" Substances and on the *Rôle* of the Homologous Proteid in Precipitin Reactions: D. A. Welsh and H. G. Chapman.—The Viscosity of the Blood: A. du Pre Denning and J. H. Watson.—The Affinity Constants of Amphoteric Electrolytes, i., Methyl Derivatives of Para-Aminobenzoic Acid and of Glycine: J. Johnston.—The Affinity Constants of Amphoteric Electrolytes, ii., Methyl Derivatives of Ortho- and Meta-aminobenzoic Acids: A. C. Cumming.—The Affinity Constants of Amphoteric Electrolytes, iii., Methylated Amino-acids: Prof. J. Walker, F.R.S.

ROYAL INSTITUTION, at 5.—Man and the Glacial Period: Prof. W. J. Sollas, F.R.S.

FRIDAY, JUNE 1.

ROYAL INSTITUTION, at 9.—L'Ébullition des Metaux: Prof. H. Moissan, For.Mem.R.S.

TUESDAY, JUNE 5.

ROYAL INSTITUTION, at 5.—Northern Winter Sports, Sweden and its People: Colonel V. Balck.

WEDNESDAY, JUNE 6.

SOCIETY OF PUBLIC ANALYSTS, at 8.

ENTOMOLOGICAL SOCIETY, at 8.—(1) Predaceous Insects; (2) On some Forms of *Papilio dardanus*: Prof. E. B. Poulton, F.R.S.—Notes on the Blattidæ: R. Shelford.—On the Bionomics of some Butterflies from the Victoria Nyanza Region: S. A. Neave.

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THURSDAY, JUNE 7.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Osmotic Pressures of some Concentrated Solutions: The Earl of Berkeley and E. G. J. Hartley.—An Account of the Pendulum Observations made at Kew and Greenwich Observatories in 1903: Major G. P. Lenox-Conyngham.—The Self-induction of an Iron Cylinder: Prof. E. Wilson.

ROYAL INSTITUTION, at 5.—Man and the Glacial Period: Prof. W. J. Sollas, F.R.S.

LINNEAN SOCIETY, at 8.—On Two New Species of Populus from Darjeeling: H. H. Haines.—Biscayan Plankton, part viii., The Cephalopoda: W. E. Hoyle.—Part ix., The Medusæ: E. T. Browne.

CHEMICAL SOCIETY, at 8.30.—Ammonium Selenate and the Question of Isodimorphism in the Alkali Series: A. E. H. Tutton.—An Improved Beckman Apparatus for Molecular Weight Determination: J. M. Sanders.—Resolution of Lactic Acid by Morphine: J. C. Irvine.—The Vapour Pressures of Binary Mixtures, part i., The Possible Types of Vapour-pressure Curves: A. Marshall.—Action of Sodium on α -Dichloropropylene: I. Smedley.—Thiocarbamide as a Solvent for Gold: J. Moir.—The Action of Sulphur Dioxide and Aluminium Chloride on Aromatic Compounds: S. Smiles and R. Le Rossignol.

FRIDAY, JUNE 8.

ROYAL INSTITUTION, at 9.—Studies on Charcoal and Liquid Air: Sir James Dewar, F.R.S.

PHYSICAL SOCIETY, at 8.—On the Solution of Problems in Diffraction by the Aid of Contour Integration: H. Davies.—The Effect of Radium in Facilitating the Visible Electric Discharge *in vacuo*: A. A. Campbell Swinton.—Mr. J. Goold's Experiments with a Vibrating Steel Plate, exhibited by Messrs. Newton and Co.—Fluid (liquid) resistance: Col. de Villamil.

ROYAL ASTRONOMICAL SOCIETY, at 5.

GEOLOGISTS' ASSOCIATION, at 8.—The Higher Zones of the Upper Chalk in the Western Part of the London Basin: H. J. Osborne White and Ll. Treacher.

MALACOLOGICAL SOCIETY, at 8.—Mollusca of the *Porcupine* Expeditions, 1869-70, Supplemental Notes, part iii.: E. R. Sykes.—Notes on the Dates of Publication of the "Mineral Conchology" and "Genera Rec. Foss. Shells": E. R. Sykes.—Description of *Oliva ispidula*, L., var. *longispira*: F. G. Bridgman.—On *Chloritis heteromphalus*: H. A. Pilsbry.

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