

ture with the Féry pyrometer is extended to cases in which the image of the opening in the hot body is smaller than the blackened disc fixed to the thermoelectric couple. Readings are taken of the deviations with and without the interposition of absorptive plates of mica, glass, or celluloid.—**MM. Massol and Faucon**: The ultra-violet spectra of aqueous solutions of nitric acid, metallic nitrates, and particularly of copper nitrate.—**P. Chevenard**: The expansion of ferro-nickels over a large range of temperature. Measurements were made of the expansion between -195° C. and 750° C., for a series of alloys containing increasing proportions of nickel. The results are given in the form of diagrams.—**B. Bogitch**: The ternary alloy of zinc, silver, and lead.—**F. Taboury**: Glucinum sulphate and its hydrates.—**J. Clarens**: The chlorometric method of Penot.—**Marcel Guichard**: A new method of determination of the atomic weight of iodine. The method is based on the use of purified iodine pentoxide, and its decomposition into iodine and oxygen by a high temperature. These elements are weighed separately. The general mean of the experiments was, for $O=16$, $I=126.92$, identical with the value currently accepted.—**L. Tschugaëff**: A new method of preparation of the complex compounds of bivalent platinum.—**André Brochet and Maurice Bauer**: The addition of hydrogen to aliphatic compounds with ethylene linkages in presence of nickel under moderate pressure. The reactions were carried out at the ordinary temperature under hydrogen pressures of fifteen atmospheres or less. Descriptions of the reduction of *l*-octene, cinnamic acid, sodium cinnamate, methyl cinnamate, piperonylacrylic acid, eugenol, sapol, and isoeugenol are given.—**Maurice Lugeon**: The autochone strata below the Morcles layer.—**Emile Haug**: New observations on the tectonic of the valley of Saint Pons, near Gémenos (Bouches-du-Rhône).—**P. Idrac**: The irregularities of the wind.—**Julien Loisel**: The nomographic representation of the reduction of the barometer to sea-level.—**O. Lignier**: New contributions to the knowledge of the flower of the *Fumarieæ* and the *Crucifereæ*.—**Edgar Zaepffel**: The distribution of the stomata in the plantules of some graminaceous plants.—**E. Chuard and R. Mellet**: Nicotine in the by-products of the culture of tobacco. The waste products of tobacco culture contain sufficient nicotine to be of commercial value in the preparation of insecticides.—**J. Künckel d'Herculais**: Correlation between the mortality of *Ailanthus glandulosa* and the disappearance of *Samia cynthia*.—**Em. Bourquelot and Al. Ludwig**: The biochemical synthesis of the β -monoglucosides of meta- and para-xylene glycols.

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