induction spark is passed through a tube containing the new gas under an exhaustion of eight mm., and finds that "the spectrum is a very definite and characteristic one, and the lines differ in position from those of nitrogen. The appearance more resembles a metallic spectrum, and no flutings similar to those of nitrogen are to be seen." Professor Dewar suggests that the new element may be an allotropic form of nitrogen analogous to red phosphorus, and that the processes of preparation may be really methods of manufacture.
E. H.

The Post-Mortem Detection and Estimation of Strychnine-Allerton S. Cushman. (Transactions of the Academy of Science of St. Louis, 6, 537.)

The author recommends the following method for the detection and estimation of strychnine in toxical cases: The mass to be examined is comminuted and digested over night at a warm ten1perature with water acidulated with acetic acid, filtered through muslin and then through paper, the solution evaporated, ant excess of eighty per cent. alcohol added, boiled, filtered, and extraction repeated. The liquid is then evaporated, the residue taken up with water and a little acetic acid, and the solution shaken repeatedly with acetic ether, as long as anything is extracted-twelve extractions may be necessary. A volume of acetic ether equal to that of the solution is now added, and sodium carbonate to alkaline reaction. After shaking, the acetic ether is separated and the extraction repeated. The strychnine is usually moderately pure as obtained by the evaporation of the acetic ether, but for quantitative estimation it is dissolved in dilute acetic acid, filtered, the solution extracted with etherchloroform ( $\mathrm{I}: \mathrm{I}$ ), ammonia added, and the extraction with ether-chloroform repeated twice. The residue obtained by evaporating the ether-chloroform is nearly pure and is weighed. Two experiments with known amounts of strychnine mixed with considerable amounts of meat, sugar, starch, and water, and allowed to stand in a warm place for two weeks, gave a recovery of about eighty-seven per cent. of the strychnine present. Directions for chemical, crystallographic, and physiological tests are given. Two toxical cases in which the method was applied are also given. W. A. Noyes.

