drugs and their galenical preparations. His researches in this direction, often in conjunction with M. Hérissey, M. Bridel, and other of his assistants and pupils, gained for him a world-wide reputation. His investigation of the constituents of gentian root and of the changes brought about by enzymes during the drying of the root and the making and keeping of preparations made from it may well serve as a model for future workers. The latter years of his life were mainly devoted to the study of the synthetical as well as the analytical action of enzymes, in which field remarkable results were obtained.

To his scientific attainments Bourquelot added a personal charm that fascinated everyone brought into contact with him. His unfailing courtesy and friendly disposition endeared him to all. He was one of the most eloquent of lecturers, and those who were fortunate enough to hear his lecture on "The Synthesis of Glucosides by Ferments" at the International Congress of Pharmacy at The Hague in 1913 will long remember his admirable lucidity, clear enunciation, and exquisite delivery.

Though Bourquelot had been in indifferent health for the last two or three years the end came with dramatic rapidity, and pharmacy was robbed of one of its most brilliant exponents.

## COL. R. A. WAUHOPE.

Col. R. A. Wauhope, whose death is announced, was, perhaps, better known for the splendid quality of his practical work at mapmaking on the Indian frontier (and beyond it) than for researches into those branches of geodetic science which form the special objective of that section of the Indian Survey Department which is centred in Dehra Dun. He was one of the first and best of those surveyors who reformed the antiquated methods of geographical reconnaissance and proved that sound square mapping may be evolved on precisely the same principles of triangulation and topography in the field of an expedition or a campaign as govern the output of Ordnance mapping in the quiet fields of home survey.

Col. Wauhope's science consisted in the clever combination of exact methods, where they were possible, with the scientific adaptation of inexact methods (that is to say, methods not ordinarily recognised as permissible under normal conditions of map-making), and obtaining therefrom results which have proved to be satisfactory. The best instance of such adaptation was afforded when he fixed the initial point of the Russo-Afghan boundary at the head of Lake Victoria, in the Pamirs, by the method of instrumental resection from distant Himalayan peaks (the position of which had been determined by a regular geodetic series of the Indian triangulation) in circumstances where direct intersection from a regular series across the Himalayas was im-Such a direct series was eventually possible. carried through with much difficulty and at great expense of money and time from India to the same point, when it was found in the first place that the result in absolute values of latitude and longitude was almost coincident with Wauhope's value, and, in the second, that it was doubtful whether the result of direct triangulation completed under abnormal conditions was the more trustworthy of the two. In this special case it must be remarked that few surveyors possess that physical capacity which enabled Col. Wauhope to attain the elevations necessary for observation.

T. H. H.

MR. GEORGE CLINCH, the librarian of the Society of Antiquaries, whose death, on February 2, we regret to record, joined the staff of the society in January, 1896, having previously been employed at the British Museum. In May, 1886, he exhibited to the society a collection of flint implements found by him during eight years in West Wickham, Kent. In December, 1888, Mr. Clinch reported to the society the results of excavations made by him during the ten previous years in the supposed pit-dwelling at Hayes Common, in the same county. Later, he published a volume entitled "Antiquarian Jottings," describing in a popular manner these and other researches in the same district. Mr. Clinch also wrote a number of the "Little Guides," and a work on old English churches. He prepared the annual Lists of Archæological Papers after they had been discontinued by Sir Laurence Gomme. As librarian he earned the esteem of the fellows and others using the library by his courtesy and readiness to assist. He was in his sixty-first year.

THE death is announced, in his sixty-sixth year, of Dr. William Thompson Sedewick, who had been connected with the Massachusetts Institute of Technology since 1883 as successively assistant professor, associate professor, and full professor of biology. He had also been, since 1897, curator of the Lowell Institute, Boston, and since 1902 a member of the advisory board of the hygienic laboratory of the U.S. Public Health Service. Prof. Sedgwick was author of "Principles of Sanitary Science and Public Health," and joint author of "General Biology," "The Human Mechanism," and "A Short History of Science."

We much regret to announce the death, on February 17, at ninety-one years of age, of Dr. W. Odling, F.R.S., Waynflete professor of chemistry at the University of Oxford from 1872 to 1912; also on February 21, at seventy-eight years of age, of Prof. L. C. Miall, F.R.S., Emeritus professor of biology at the University of Leeds; and on February 22, in his eighty-fifth year, of Prof. R. B. Clifton, F.R.S., lately professor of experimental philosophy in the University of Oxford.

THE death is announced, on February 16, in his seventy-ninth year, of Mr. C. Grover, for many years astronomical assistant at Sir C. E. Peek's observatory at Rousdon, Devon.