

work is offered as a rule rather under the head of research than in grouped lectures. Presentation of general chemistry to younger students is not now confined apparently to the old routine, but to an outline, based more upon the periodic system or the variations of it, so that the subject is exhibited more in detail and as a unit and in less time.

Within the past twenty-five years there has been a most gratifying progress in teaching medical students chemistry. Full appreciation of chemistry by doctors of medicine has not come about through such a vigorous reformation as advocated by Paracelsus. Bacteriological side-lights have illuminated the path. In addition to the usual lectures on chemistry, laboratory work is universally required and the best medical schools demand attendance on lectures on physiological chemistry, and personal experimentation with many of the products of animal metabolism. (See Vice-President Long's address before Section C, A. A. A. S., Denver Meeting, 1901.)

C. B.

MEMBERSHIP OF THE AMERICAN ASSOCIATION.

THE following have completed their membership in the American Association for the Advancement of Science during the month of April:

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SCIENTIFIC BOOKS.

Monographien aus der Geschichte der Chemie.

Herausgegeben von GEORGE W. A. KAHLBAUM. V. Heft. *Justus von Liebig und Christian Friedrich Schönbein. Briefwechsel 1853-1863.* Herausgegeben von GEORGE W. A. KAHLBAUM und ED. THON. Leipzig, Johann Ambrosius Barth. 1900. 12mo. Pp. xxi+275.

In the summer of 1853 Schönbein paid a visit to Munich, and was introduced by von Pettenkofer to Justus von Liebig. Schönbein was at that time about fifty-four years of age and had won distinction by his discoveries of ozone, gun cotton and collodion; Liebig was three years his junior and his reputation was of the highest. The visitor from Switzerland was received by the resident of Munich most cordially, and to his great astonishment was invited to lecture to the students, at one of the regular hours used by Liebig, on his own studies and discoveries.

This friendly act was the beginning of an intimacy that found expression in the letters preserved in this volume.

Ozone naturally occupies much space in the letters written by Schönbein; in a letter dated September 30, 1853, Liebig objected to the name which was not adopted for a 'law of nature'; he also condemned the term *allotropic*. Several letters written in 1854 concern Schönbein's paper, 'Chemical Action of Electricity of Heat and of Light.'

In their letters the friends write of discoveries made by themselves and by other chem-