

FREYBERG (Dresden): Töpler's apparatus for illustrating the statics and dynamics of rigid bodies.

VON LOMMEL (Munich): On lines of magnetic force.

SCHAPIRA (Heidelberg): Iteration as the fundamental idea in mathematical operations.

FRICKE (Göttingen): On the moduli of a Riemann surface.

DOEHLEMANN (Munich): On the theory of the null-system.

BURKHARDT (Göttingen): On the theory of Cremona transformations.

SCHAPIRA (Heidelberg): On symmetric and alternating quadratic forms.

A. Z.

Proceedings of the American Association for the Advancement of Science for the forty-second meeting, held at Madison, Wis., August, 1893. Salem, 1894. 8vo. cxvi + 384 pp.

Besides Professor C. L. Doolittle's vice-presidential address to Section A on "Variations of latitude," this volume contains brief abstracts of a paper by Professor F. H. Loud, "A construction for the imaginary points and branches of algebraic loci," of a paper by Professor E. W. Hyde, "The screw as a unit in a Grassmannian system of the sixth order" (published in full in the *Annals of Mathematics*, vol. 8), and of a paper by Professor Mansfield Merriman, "On the possibility of the algebraic solution of the general equation of the fifth degree." Several other papers read before Section A are given only by title.

A. Z.

Le Livret de l'Étudiant de Paris. Publié sous les auspices du Conseil générale des Facultés. 1894-1895. Paris, Delalain Frères, 1894. 12mo. 158 pp.

A small volume bearing the above title has just been published by the General Council of the Faculties of Paris on behalf of those institutions which taken together are regarded as constituting the *Académie de Paris*. In the preface we read: "The General Council of the Faculties deems it useful to bring together the various information necessary for each student. . . . In giving to the students of Paris greater facilities for informing themselves as to both the rules to which they are subject and the means of study which are at their disposal, in showing them all the resources which the faculties and schools offer for higher intellectual culture, the publishers hope to contribute, on their part, to the rapidly-progressing development of the *University of Paris*." The matters presented are: (1) programmes of the several faculties and the school of pharmacy; (2) announcements of other institutions of higher instruction; (3) academic regulations;