

and, instead of holding twenty-fourth rank in education, she will soon take a place in the front, if not in the lead.

The institution has experienced steady growth ever since it was founded. The number of students has increased, and new buildings have been erected for their accommodation. The last one was built in the fall of 1890, and is devoted exclusively to veterinary medicine and science. The new chemical laboratory, dedicated last month, is constructed according to the latest improved plan, and students have the best opportunities for study in all branches of chemistry. In the botanical laboratory is found specimens of plant-life from many parts of the world, and several herbariums both of our own flora and many plants from other countries.

In the mechanical laboratory is found tools and power for the various branches of mechanical art. The physical and electrical laboratories are supplied with the necessary appliances and apparatus for those studies.

The departments of physiology, geology, and zoölogy are in the main building, and are as well equipped as the former circumstances would allow. Students are encouraged, in the natural sciences especially, to original and independent investigation; and to facilitate this, excursions are made to places of especial geological, botanical, or entomological interest. In connection with the university is a biological club, consisting largely of professors and students who are doing advanced work in biology.

Among the many needs of the institution may be mentioned a hall for military drill, a fire-proof building in which to place the valuable geological and botanical museums and the library, more class-rooms, and better equipment in all departments. Other departments will be added to the institution, whose needs, with those of the present departments, will be well supplied; for the aggregate support is now adequate to a great institution, which Ohio State University is destined to be.

E. E. BOGUE.

Columbus, O., April 3.

BOOK-REVIEWS.

Mixed Metals, or Metallic Alloys. By ARTHUR H. HIORNS. London and New York, Macmillan. 12°. \$1.50.

IN this serviceable and timely volume Mr. Hiorns not only brings his subject up to date, but deals with it in a manner well adapted to the requirements of students and practical men. In these particulars he has followed the same methods used by him in his previous works in the same line, — "Elementary Metallurgy," "Practical Metallurgy," and "Iron and Steel Manufacture." We wish, though, he had omitted the first clause of his title. "Mixed metals," no matter how common the term may be in the metal trade, cannot fairly be considered as equivalent to "metallic alloys:" in other words, a true alloy is not a mere mixture of metals. Aside from this, there is no fault to find with the book.

Publications received at Editor's Office,
March 30-April 4.

- CAMMANN, D. M. The Physical Diagnosis of the Diseases of the Heart and Lungs and Thoracic Aneurism. New York, Putnam. 188 p. 16°. \$1.25.
- DAVIES, T. A. Am I Jew or Gentile? Read and see. New York, E. H. Coffin. 87 p. 16°.
- FLUGEL, F. A Universal English-German and German-English Dictionary. Vol. I. Part I. Braunschweig and New York, Westermann. 192 p. 4°. \$1.00.
- KNOPLACH, A. A Sound-English Primer. New York, Stechert. 68 p. 12°.
- LANKESTER, E. R. Zoological Articles contributed to the "Encyclopædia Britannica," etc. Edinburgh, Black; New York, Scribner. 195 p. 4°. \$5.00.
- MAXWELL, W. H. Advanced Lessons in English Grammar. New York, Cincinnati, and Chicago, Amer. Book Co. 327 p. 12°. 60 cents.
- NEWSDEALER'S and Publisher's Bulletin. Vol. I., No. 1. March 2, 1891. New York, Newsdealer's and Publisher's Bull. Pub. Co. 24 p. 4°. \$1 per year.
- QUACKENBOS, J. D., and others. Appletons' School Physics. New York, Cincinnati, and Chicago, Amer. Book Co. 544 p. 12°. \$1.20.
- SMITHSONIAN INSTITUTION, Annual Report of the Board of Regents of the, showing the Operations, Expenditures, and Condition of the Institution to July, 1889. Washington, Government. 815 p. 8°.
- U. S. DEPARTMENT OF AGRICULTURE. Proceedings of the Seventh Annual Convention of the Association of Official Agricultural Chemists held at the U. S. National Museum, Aug. 28, 29, and 30, 1890. Washington, Government. 238 p. 8°.

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AMONG THE PUBLISHERS.

THE American Academy of Political and Social Science has just issued the fourth number of its *Annals*. The volume just

issued deals with the "Genesis of a Written Constitution," by Professor Morey of Rochester; "Natural Law," by Professor Taylor of Michigan; "Compulsory Voting," by Mr. F. W. Holls of New York; and "The Wealth Concept," by Professor Tuttle of Amherst. Another article treats of economic instruction in Italy, and gives an account of the university system. The proceedings contain a discussion of the Original Package decision by Messrs. Budd and Wintersteen of the Philadelphia bar. In addition to the *Annals*, the American Academy of Political and Social Science issues from time to time supplementary volumes of interest to students of economics and politics. The first of these, the "History of Statistics," by Professor August Meitzen of Berlin, has just appeared.

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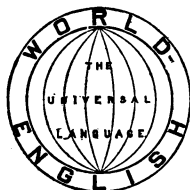


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