

CONCLUSION.

The report concludes with a review of the development of agriculture and commerce during the past twenty years, and of the contributions by the Department of Agriculture to the progress of events and the building up of domestic and foreign trade. The Secretary says that coincident with this growth numerous institutions have grown up in this country and abroad, devoted to the application of science to the service of agriculture, thus creating a great demand, at good salaries, for the right sort of men. Each nation is seeking to extend its productions, and is depending more and more upon the aid of science. Men combining knowledge with practical experience and ability are hard to get, and hence the Department has to face the necessity of paying much higher salaries, or of being compelled to either lose opportunities of getting the best men or to lose some of those who, under its training, have developed such qualities as make them exceptionally valuable.

He concludes by saying that he would urge upon Congress, in the strongest terms and for the best interest of the country, such liberality as will enable him to obtain and retain the best men that can be found to fill the important places at his disposal.

MEMBERSHIP OF THE AMERICAN ASSOCIATION.

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

Samuel L. Bigelow, Ph.D., Asst. Prof. Chemistry, University of Michigan, Ann Harbor, Mich.

Thos. A. Chittenden, Instr. in Mechanical Engineering, A. & M. College, W. Raleigh, N. C.

Patrik B. Delany, Electrician, Inventor, South Orange, N. J.

Wm. Fox, Asst. Prof. Physics, The College of the City of New York, New York, N. Y.

Manuel R. Gutierrez, Prof. Physics, Normal School, Calle de las Victimas, No. 1, Jalapa, Vera Cruz, Mex.

John J. Hollister, Mining Engineer, Gaviota, Santa Barbara Co., Cal.

John W. Leonard, Author-Lawyer, Wheaton, Ill.

Wm. L. Martin, Augusta, Ga.

George H. Maxwell, Chairman, Natl. Irrigation Ass'n, 1827 Phelps Place, Washington, D. C.

Charles P. Nott, Palo Alto, Cal.

C. Howard Parmly, Asst. Prof. Physics, The College of the City of New York, New York, N. Y.

Wm. B. Potter, Ch. Eng. Ry. Dept. G. E. C., Gen. Elec. Co., Schenectady, N. Y.

Ferdinand A. Schiertz, Rosario Mines Ltd., Guadalupe y Calvo, Chihuahua, Mexico.

Solon Shedd, Prof. Geology and Mining, State Agric. College, Pullman, Wash.

Dr. Edw. G. Spaulding, Instr. Philosophy, The College of the City of New York, New York, N. Y.

Dr. Edw. W. Taylor, Instr. Neuropathology, Harvard Medical School, Boston, Mass.

Jos. B. Tyrrell, Mining Engineer, 181 Metcalfe St., Ottawa, Canada.

SCIENTIFIC BOOKS.

Practical X-Ray Work. By FRANK T. EDDYMAN, B.Sc. (Lond.), F. I. C. London, Scott, Greenwood & Co.; New York, D. Van Nostrand Company. Price, \$4.00.

This little book, as the name indicates, seems to be a thoroughly practical guide for the beginner in X-ray work. As would be expected, the scientific knowledge to be gained by even a careful study of the treatise must be almost entirely empirical. The scope and purpose of such a book quite preclude treating the physics of the subject in any but a statement-of-fact way.

The work is divided logically into three parts; the first part, wisely brief, treats of the history of the development of X-ray practice; the second, of the apparatus and of its management; the third, of practical X-ray work.

It is to be noted that Mr. Eddyman is a physicist and presumably trained in the science of the subject; also that he has charge of the radiographic work in a large hospital, and so has had ample experience in the practical application of X-ray diagnosis in surgical and medical cases. Such a combination is almost necessary if one is to prepare a book of real value on this subject. The author seems to have succeeded admirably, giving only enough of the pure physics to make the application of it intelligible, and