

stock, a young man, not yet thirty, an instructor of economics in one of our larger universities. The publishers believe that *Germany Misjudged* is in many respects the clearest, fairest and most convincing presentation and defense of the German cause that has appeared in English.

Samuel W. Pennypacker's letter to Mr. Hugins follows:

"I write to express to you the very great satisfaction given me by your recent book *Germany Misjudged* which I have just finished reading. It is a most valuable contribution to the literature on this war. In fact I am inclined to think that it is the strongest and clearest presentation of the cause of the Germans that I have anywhere met. You have evidently selected your facts with great care and the conclusions from them are unanswerable.

"The present administration blundered frightfully when it threw the weight of American influence into the cause of the Allies—a blunder which will have grave consequences for generations to come. It is incomprehensible to me that Mr. Wilson should fail to see that a real neutrality was the only course for us to pursue.

"I wish it were possible by some means to get your book generally into the hands of American readers. Judging from your name I infer that you like myself are of Dutch origin."

BOOK REVIEWS.

PERSONAL EXPERIENCES AMONG OUR NORTH AMERICAN INDIANS. By *Captain W. Thornton Parker*, M.D. Illustrated. Published by the author at Northampton, Mass. Pages, 232. Price, cloth, \$2.00 postpaid.

These war reminiscences of Dr. William Thornton Parker cover the period from 1867 to 1885 and furnish an interesting presentation of frontier life from personal experience. The single chapters have been published in article form in various periodicals and contain material of intense interest. Wars are now being waged in ancient Europe, but in this country the terrors of frontier life are almost forgotten and have become scarcely believable, and for this reason the book will prove the more interesting to the rising generation.

Dr. Parker has also published within the last year a genealogical history of two colonial families in which he is personally interested, *Gleanings from Colonial and American Records of Parker and Morse Families, A.D., 1585-1915*. It is a very attractive volume, bound in blue and gold cloth with gilt lettering and contains photographs of colonial representatives of these families, their homes and trophies. There is a picture of the battle of Bunker Hill with a descriptive key of the important leaders who took part. The frontispiece is an excellent reproduction in colors of a famous painting of a battle of the Revolution.

In addition to the above books, the author has just published the *Annals of Old Fort Cummings, New Mexico, 1867-8*. The ruins of this old fort, which is rich in memories of the early Indian wars, are just north of Columbus, New Mexico, in a region which has been the center of interest during the recent troubles on the Mexican border.

FUNDAMENTAL SOURCES OF EFFICIENCY. By *Fletcher Durell*, Ph.D. Philadelphia: Lippincott, 1914. Pp. 368. Price \$2.50 net.

The present work is an attempt to analyze the various forms and sources of efficiency into a few elemental principles. The author feels that the study

of such primal elements will not only aid in the mastery of efficiency in a given field, but will prevent this important idea from assuming a narrow meaning and thus leading to limited or even harmful results. In the preface he explains that the leading ideas here presented were suggested by the study of Spencer twenty years before. This basis has been supplemented by careful perusal of the publications of the Efficiency Society and of leading writers along these lines. Groups of exercises have been inserted after each chapter so that the book is well equipped as a text-book for efficiency courses. This purpose is further served by the careful subdivision of chapters. Something of the scope of the work can be indicated by the topics of the chapters as follows: Definition and First Principles; Reuse; The Unit and Its Multiples; The Group; Multiplicative Groups; Orders of Material; Externality; Uniformity and Diversity; Expenditures and Results; Symbolism; Directive; Kinematic and Dynamic; Rhythm; Dialectic; Limitation; Error and Paradox; Combinations of Efficients-Summary; Applications.

A commentary on current typographical tendencies is furnished by the frequent appearance of the word "Reuse" printed without a hyphen. The word is perfectly good, and our modern rules would dispense with the hyphen, but the word is not in such general use but that its appearance without context as the title of the chapter and in such headings as "Marginal Reuse," "Negative Reuse," "Special forms of Reuse," etc., proves puzzling to the general reader. κ

NOTES.

It will be of great interest to scientists and students of physics everywhere to learn that just before his death last February, Prof. Ernst Mach had completed a manuscript on the "Principles of the Theory of Light" upon which he had been at work almost to the very last days of his life. This treatise on Light will form a companion volume to his previous works on *Mechanics* (English translation by T. J. McCormack, Chicago, Open Court Publishing Company, 1902) and the *Theory of Heat*, an English translation of which is now on the press with the same publishers. Like these earlier works Professor Mach's last book will present the development of principles from a critical point of view and by the historical method. The *Prinzipien der Lichtlehre* will appear during 1916 from the press of Johann Ambrosius Barth of Leipsic.