

existing treatise on the varied subjects included under its comprehensive title.

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#### SCIENTIFIC JOURNALS AND ARTICLES.

THE February number (Vol. VIII., No. 5) of the *Bulletin of the American Mathematical Society* contains a report of the eighth annual meeting of the Society, by the secretary; a report of the January meeting of the Chicago Section, by T. F. Holgate; a review of Wilson's Vector Analysis, by Alexander Ziwet; a review of books by M. Simon and J. M. Hill on Euclid, by J. S. Coolidge; 'Notes' and 'New Publications.' The March number of the *Bulletin* contains the following articles: 'The Application of the Fundamental Laws of Algebra to the Multiplication of Infinite Series,' by Florian Cajori; 'Concerning the Class of a Group of Order  $p^m$  that Contains an Operator of Order  $p^{m-2}$  or  $p^{m-3}$ ,  $p$  being a Prime,' by W. B. Fite; 'Proof that the Group of an Irreducible Linear Differential Equation is Transitive,' by Saul Epstein; 'Lines of Length Zero on Surfaces,' by L. P. Eisenhart; 'Some Properties of Potential Surfaces,' by Edward Kasner; a review of Gibson's Calculus, by W. F. Osgood; 'Shorter Notices' of Cohen's Theory of Numbers and Beman's translation of Dedekind's Essay on the Theory of Numbers, by L. E. Dickson, and of the *Annuaire des Bureau des Longitudes*, by E. W. Brown; 'Notes' and 'New Publications.'

*The American Naturalist* for February opens with an article by W. M. Wheeler on 'A New Agricultural Ant from Texas, with remarks on the known North American Species,' the new ant being *Pogonomyrmex imberbiculus*, while the notes include a key for the identification of the species. Under the caption '*Phyllospadix* as a Beach-builder,' R. E. Gibbs presents some new information regarding its life-history and shows how its spreading tufts hold the sand and produce sand-bars. G. H. Shull gives 'A Quantitative Study of Variation in the Bracts, Rays, and Disk Florets of *Aster Shorti* Hook., *A. Novæangliæ* L., *A. puniceus* L. and *A. prenanthoides*

Muhl., from Yellow Springs, Ohio.' The number contains the 'Quarterly Record of Gifts, Appointments, Retirements and Deaths,' and it is noted that hereafter these will appear in the numbers for February, May, August and November. The gifts for the past year to schools, colleges, libraries and museums amounted to \$43,233,635, and this does not include Mrs. Stanford's transfer of securities to Stanford University nor any appropriations made by national, state or local governments.

*The Popular Science Monthly* for March contains a long and well-illustrated article by J. C. Branner on 'The Palm Trees of Brazil,' describing the appearance and uses of many species. Alexander F. Chamberlain treats of 'Work and Rest: Genius and Stupidity,' drawing the inference that brief periods of intense work and long periods of rest produce better results than long periods of steady application. 'Science in 1901' is a résumé of progress along various lines from wireless telegraphy to the better understanding of yellow fever, reprinted from the *London Times*. Ellis P. Oberholtzer describes 'Franklin's Philosophical Society,' the oldest scientific society in the country, and W. H. Dall contributes an appreciative biographical sketch, with portrait, of the late Alpheus Hyatt. W. G. Sumner tells of the comparatively recent extraordinary outbreak of 'Suicidal Fanaticism in Russia,' and Lindley M. Keasbey discusses 'The Differentiation of the Human Species,' believing that mankind was homogeneous prior to the glacial period. E. B. Titchener, after considering the problem 'Were the Earliest Organic Movements Conscious or Unconscious,' decides in favor of the necessity of mind at the first appearance of life. Finally we have the full text of the 'Trust Deed by Andrew Carnegie creating a Trust for the benefit of the Carnegie Institution.'

#### SOCIETIES AND ACADEMIES.

##### AMERICAN PHYSICAL SOCIETY.

THE regular bimonthly meeting of the Physical Society was held at Columbia