

## UNIVERSITY AND EDUCATIONAL NEWS.

THE Woman's Educational Association of Boston proposes to institute scholarships in summer schools for Boston school teachers, and urges women's clubs and other organizations of women interested in public-school work to establish similar scholarships, or to select at least one of their young teachers who shall be sent to a summer course. A list of eight of the chief colleges and universities offering such courses is added. During the summer of 1896 the scholarships of the Boston Association will be chiefly offered for the course in physical geography at Harvard University. The amount of money now at the disposal of the Association being small, the committee asks that contributions toward this object be sent to Mrs. R. H. Richards, Institute of Technology, Boston.

THE board of regents of the University of Wisconsin has recently made the following promotions in the faculty of that institution: Louis W. Austin, Ph. D., from instructor in physics to assistant professor in physics; Lellen S. Cheney, B. S., from instructor in general and pharmaceutical botany to assistant professor of pharmaceutical botany; Wm. S. Marshall, Ph. D., from instructor in biology to assistant professor of zoölogy; Wm. A. Scott, Ph. D., from associate professor of political economy to professor of economic history and theory. Frank C. Sharp, Ph. D., from instructor in philosophy to assistant professor of philosophy; Rodney H. True, Ph. D., from instructor in pharmacognosy to assistant professor of pharmacognosy.

THE Connecticut Dental Association has voted to petition the Yale corporation for the establishment of a dental school at Yale University.

DR. ROBERT G. REMSEN, JR., of the Class of '73, has given the New York University \$3,000 toward the endowment of scholarships.

THE University of Glasgow has received £8,000 by the will of the late Dr. John Grieve, the money to be used for the foundation of a lectureship or fellowship.

THE following foreign appointments are announced: Dr. Ludwig Katheriner, professor of zoölogy and comparative anatomy in Frei-

burg, Switzerland; Mr. James G. Lawn, professor of mining at the South African School of Mines, Cape Town and Dr. Otto Fischer, associate professor of physiological physics at Leipzig.

## DISCUSSION AND CORRESPONDENCE.

## A REVIEW OF BIGELOW'S PAPERS ON METEOROLOGY AND SOLAR PHYSICS.

ABOUT a year ago the writer was so struck upon reading a paper\* on the 'Inversion of Temperatures in the 26.28 Day Solar Magnetic Period' that he was led to look a second time at a previous paper by the same author, viz., a 'Report on the Relations of Solar Magnetism to Terrestrial Magnetism and Meteorology.'† A severe estimate of these papers induced the writer to study carefully such others‡ of Prof. Bigelow's papers as have been accessible. The result is that the writer has reached a trenchant conviction that Prof. Bigelow's theories are peculiarly and wildly vagarious and that his results are meaningless. A more recent paper‡

\* By Frank H. Bigelow, Professor of Meteorology, U. S. Weather Bureau. *Am. Jour. Sci.* (3), 48, p. 435.

† Report for 1891-2 of the Chief of the U. S. Weather Bureau, p. 519.

‡ Notes on a new method for the discussion of magnetic observations. By FRANK H. BIGELOW. *Bulletin No. 2*, U. S. Weather Bureau.

*The polar radiation from the sun.* By FRANK H. BIGELOW. *Astron. and Astro-Physics.* 13. p. 26.

*The two magnetic fields surrounding the sun.* By FRANK H. BIGELOW. *Astron. and Astro-Physics.* October, 1893.

*Further study of the corona.* By FRANK H. BIGELOW. *Am. Jour. Sci.* 3, 40. p. 343.

*The Solar corona, an instance of the Newtonian potential function in the case of repulsion.* By FRANK H. BIGELOW. *Am. Jour. Sci.* 3, 42. p. 1.

*Note on the causes of the variations of the magnetic needle.* By FRANK H. BIGELOW. *Am. Jour. Sci.* 3, 42. p. 253.

*The solar corona discussed by spherical harmonics.* By FRANK H. BIGELOW. *Smithsonian Institution*, 1889.

*Bulletin No. 13*, of the U. S. Scientific Expedition to West Africa, May, 1890.

‡ *The Earth as a magnetic shell.* By FRANK H. BIGELOW. *Am. Jour. Sci.* 3, 50. p. 81.