

# SCIENCE

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OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION  
FOR THE ADVANCEMENT OF SCIENCE.

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MSS. intended for publication and books, etc., intended for review should be sent to the Editor of SCIENCE, Garrison-on-Hudson, N. Y.

## MEETING OF SECTION E OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE AND OF THE GEOLOGICAL SOCIETY OF AMERICA.

### PAPERS READ BEFORE SECTION E.

*An American Geographers Union:* WM. M. DAVIS.

There is to-day no geographical society in the United States of organization and rank similar to those of the Geological Society of America. It is believed that the advance of geographical science would be promoted by the organization of a professional society in which only those who have published papers based on original observation should be eligible to membership. A method of beginning the organization of such a society is suggested.

*The Concentration of Geographical Publications:* ISRAEL C. RUSSELL. (Read by title.)

The immediate welfare and future development of geographical science demand that there shall be a union or concentration of the several journals, proceedings, magazines, etc., now issued by geographical societies in North America, and one well-written, well-edited, well-illustrated and well-printed monthly magazine issued. Some of the advantages of such centralization are:

The convenience of reading or consulting one publication instead of many.

Less expense, as may be judged, of issuing one publication in place of several.

The much less expense to subscribers of one publication instead of ten or more as at present.

The larger audience to be secured by one centralized bureau of publication than by any one

on the very satisfactory form in which the memoir appears. The arrangement of the material, the typography and the character of the illustrations are all worthy of favorable comment.

JOHN C. MERRIAM.

#### SCIENTIFIC JOURNALS AND ARTICLES.

THE contents of the April number of the *American Journal of Mathematics* are as follows:

HENRY LEWIS RIETZ: 'On Primitive Groups of Odd Order.'

A. N. WHITEHEAD: 'Theorems on Cardinal Numbers.'

T. J. P. A. BROMWICH: 'The Caustic, by Reflection, of a Circle.'

HARRY WALDO KUHN: 'On Imprimitive Substitution Groups.'

THE *American Journal of Psychology* for January contains the following articles:

W. P. MONTAGUE: 'A Theory of Time-Perception.'

BENJAMIN RICHARDS ANDREWS: 'Auditory Tests.'

E. B. TITCHENER: 'Some New Apparatus.'

I. M. BENTLEY and E. B. TITCHENER: 'Ebbinghaus' Explanation of Beats.'

C. SPEARMAN: 'The Proof and Measurement of Association Between Two Things.'

I. M. BENTLEY: 'Professor Cattell's Statistics of American Psychologists.'

THE first number of the *Journal of Comparative Neurology and Psychology* as recently reorganized appears in March with contents as follows: 'The Relation of the Motor Endings on the Muscle of the Frog to Neighboring Structures,' by John Gordon Wilson. A description with illustrations of the motor nerve endings with special reference to the ultra-terminal fibrils and the relation of the ending to the sarcolemma. 'Space Perception of Tortoises,' by Robert M. Yerkes. A quantitative study of the amount of hesitation exhibited by different species of tortoises before crawling over the edge of an elevated board and correlation of these data with the natural habits of the species studied. 'A Note on the Significance of the Form and Contents of the Nucleus in the Spinal Ganglion Cells of the Fœtal Rat,' by Shinkishi Hatai. A cytological examination of de-

veloping spinal ganglion cells to determine the functional significance of the centrosome, aster and Nissl granules and their relations to the nucleus, illustrated by two plates. 'An Establishment of Association in Hermit Crabs,' by E. G. Spaulding. A demonstration that the hermit crab is capable of profiting relatively rapidly by experience. Editorials, a summary of the neurological papers read at the mid-winter meetings and reviews complete the number.

THE March number of the *Botanical Gazette* contains a contribution from John F. Garber on 'The Life History of *Ricciocarpus natans*,' the investigation having resulted in a very complete morphological study, to which are appended biological data derived chiefly from observation of the plant in the field during one season and from experimental work in the laboratory.—Mabel L. Merriman publishes the results of her long study of 'Vegetative cell division in *Allium*,' this being one of the few complete studies of karyokinesis in vegetative cells of plants.—John Donnell Smith publishes his twenty-fifth paper entitled 'Undescribed plants from Guatemala and other Central American republics.'—Charles Thom describes *Craterellus taxophilus* as a new species of Thelephoraceæ.—J. M. Greenman publishes notes on the indigenous Centaureas of North America, describing one new species.—W. J. Beal makes another contribution to the vitality of seeds.

#### SOCIETIES AND ACADEMIES.

##### THE AMERICAN PHILOSOPHICAL SOCIETY.

THE general meeting of the society will be held on April 7, 8 and 9, in the hall of the society in Independence Square (104 South Fifth Street), Philadelphia.

Morning sessions, 10:30 A.M. to 1 P.M. Afternoon sessions, 2 to 4:30. Luncheon will be served in the rooms of the society from one to two o'clock. A reception will be given to the members and the ladies accompanying them at the Free Museum of Science and Art of the University of Pennsylvania on Thursday evening, April 7. The visiting members will be the guests of the resident members of