SCIENCE

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING, Astronomy; T. C. Mendenhall, Physics; R. H. Thurston, Engineering; Ira Remsen, Chemistry; J. Le Conte, Geology; W. M. Davis, Physiography; O. C. Marsh, Paleontology; W. K. Brooks, Invertebrate Zoölogy; C. Hart Merriam, Vertebrate Zoölogy; S. H. Scudder, Entomology; N. L. Britton, Botany; Henry F. Osborn, General Biology; H. P. Bowditch; Physiology; J. S. Billings, Hygiene; J. McKeen Cattell, Psychology; Daniel G. Brinton, J. W. Powell, Anthropology.

FRIDAY, SEPTEMBER 13, 1895.

CONTENTS:

The Springfield Meeting of the American Association
for the Advancement of Science: JAS. LEWIS
Howe313
The Relation of Engineering to Economics: WIL-
LIAM KENT321
John Adam Ryder: HARRISON ALLEN334
Reports of International Meteorological Meetings: A. LAWRENCE ROTCH336
The American Chemical Society337
Scientific Notes and News:338
Railway Speed in Great Britain: R. H. T. The
Royal Society of New South Wales; General.
Correspondence:342
Winds and Ocean Currents: W. M. DAVIS.
Corrections: Theo. Gill. Bolometric Investiga-
tions: A Correction: WILLIAM HALLOCK.
Scientific Literature:344
Beyer's Growth of U. S. Naval Cadets: FRANZ
ROAS Meyer's Untersuchungen über die Stärke-

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Prof. J. McKeen Cattell, Garrison on Hudson, N. Y. Subscriptions and advertisements should be sent to SCIENCE, 41 N. Queen St., Lancaster, Pa., or 41 East 49th St., New York.

körner: EMILY L. GREGORY.

XLIV. MEETING OF THE AMERICAN ASSOCI-ATION FOR THE ADVANCEMENT OF SCI-ENCE, SPRINGFIELD, MASS., AUG. 28th-SEPT. 4th, 1895.

In 1859 the American Association assembled for its thirteenth meeting in Springfield. After the lapse of thirty-six years the Association has again met in the metropolis of western Massachusetts, this time for its forty-fourth annual gathering, five meetings having been passed on account of the Civil War.

Geographically, Springfield is well located

for a place of meeting, being within easy reach of a large proportion of the members of the Association. For some reason, perhaps, the unusually late date of holding the meeting, the hopes of officers and local committee as to attendance were not realized, it having been the smallest meeting held in the eastern section of the country since that of Saratoga in 1879, and having but slightly exceeded the meetings held in the West. The number of members registered was hardly double that of the earlier Springfield meeting, when 180 were present.

The uncertainty until a late date as to where the meeting would be held, it having been hoped that the railroads would make satisfactory rates to San Francisco, may also have contributed to the smallness of the meeting.

But if the attendance was not what might have been wished, the arrangements by the local committee have rarely been better made. Outside of a University town it is rarely possible to have all the audience rooms in one building, but at Springfield all were in such close proximity that little inconvenience was experienced in going from section to section and to the offices and reception rooms. Every convenience was provided for the members, and the courtesies of the citizens of the city are worthy of special mention. It is, however, unusual that the immediate vicinity of the place of meeting is so meagerly represented among