

# SCIENCE

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MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Professor J. McKeen Cattell, Garrison-on-Hudson N. Y.

## FRONTAL HORN ON ACERATHERIUM INCISIVUM.

### RELATION OF THIS TYPE TO ELASMOTHERIUM.

In the classical collection of the Museum of Darmstadt there are the two type skulls of *Aceratherium incisivum*, Kaup, which have hardly been disturbed since the death of that distinguished paleontologist. Through the kindness of Professor G. Richard Lepsius, the writer was recently enabled to carefully examine these skulls, which are in a fragile condition. A slight rugosity was observed upon the frontal bones just behind their junction with the nasals, and a very careful examination demonstrated to both Professor Lepsius and the writer the undoubted presence of a rudimentary frontal horn in this typical hornless type. Even more distinctive proof of the existence of a horn is afforded by the characteristic convergence towards the center of the rugosity of a number of small grooves which indicate the course of the blood vessels which supplied the horn. The support of a horn is further indicated by a distinct swelling of the skull above the orbits which is observed with especial distinctness in the profile view. This swelling will probably be found to consist of a thickening of the frontals at this point.

This discovery is of the very greatest interest. In the first place it practically removes this typical Acerathere from the group to which it has given its name and places it among the Rhinoceroses. Second,

tain, in Tuolumne county, California, and which has been usually described as basalt. The rocks are intermediate between the trachytes and andesites and are specially named 'latites.' Inasmuch as six other names have already been proposed for rocks of this general character, the author had a magnificent opportunity to resist the temptation to make a new one.

Bulletin 149. 'Bibliography and Index of North American Geology, Paleontology, Petrology and Mineralogy for 1896,' F. B. Weeks.

This bulletin continues the excellent series already represented by Nos. 127, 130, 135 and 146.

Bulletin 150. 'The Educational Series of Rock Specimens, collected and distributed by the U. S. Geological Survey,' J. S. Diller.

The petrography of the series is set forth by Mr. Diller and others. The work will be more fully reviewed elsewhere in SCIENCE.

Bulletin 151. 'The Lower Cretaceous *Gryphaea* of the Texas Region,' R. T. Hill and T. W. Vaughan.

This Bulletin has been reviewed in SCIENCE for January 20, 1899 (p. 110), by Professor Frederic W. Simonds.

Bulletin 152. 'Catalogue of the Cretaceous Plants of North America,' F. H. Knowlton.

Bulletin 153. 'Bibliographic Index of North American Carboniferous Invertebrates,' Stuart Weller.

Bulletin 154. 'A Gazetteer of Kansas,' Henry Gannett.

Bulletin 155. 'Earthquakes in California in 1896 and 1897,' Charles D. Perrine.

Bulletin 156. 'Bibliography and Index of North American Geology, Paleontology, Petrology and Mineralogy for 1897,' Fred. B. Weeks.

The titles of Nos. 152-156 inclusive indicate the contents.

THE Macmillan Company announce the early publication of the second part of Dr. Davenport's 'Experimental Morphology, which treats of the effect of chemical and physical agents upon growth. They also announce 'A History of Physics; in its Elementary Branches Including the Evolution of Physical Labora-

tories' which has just been completed by Florian Cajori, Ph.D., professor of physics in Colorado College and author of 'A History of Mathematics.'

THE Open Court Publishing Company have now in press the 'Principles of Bacteriology,' by Professor Ferdinand Hueppe, of the University of Prague, translated by Professor E. O. Jordan, of the University of Chicago.

#### BOOKS RECEIVED.

*Hand-book of Metallurgy.* CARL SCHNABEL. Translated by HENRY LEWIS. London and New York, The Macmillan Company. 1898. Vol. I., pp. xvi + 876. Vol. II., pp. xiv + 732. \$10.00.

*A Guide to the Study of the Geological Collections of the New York State Museum.* FREDERICK J. H. MERRILL. Albany, University of the State of New York. 1898. Pp. 207 + 65 plates. 40 cents.

*Earthenware of the New York Aborigines.* WILLIAM M. BEAUCHAMP. Albany, University of the State of New York. 1898. Pp. 76 + 142. 245 illustrations. 25 cents.

*The Last Link, our present Knowledge of the Descent of Man.* ERNEST HAECKEL. London, Adam and Charles Black; New York, The Macmillan Company. 1898. Pp. 156. \$1.00

*The Principles of Stratigraphical Geology.* J. E. MARR. Cambridge, The University Press; New York, The Macmillan Co. 1898. Pp. 304. \$1.60.

*Society for the Promotion of Engineering Education Sixth Annual Meeting, Vol. VI.* Edited by T. C. MENDENHALL, J. B. JOHNSON and A. KINGSBURY. Published by the Society. 1898. Pp. xxvii + 324.

*Traité de zoologie concrète.* YVES DELAGE and EDUARD HÉROUARD. Vol. VIII., Les procordes. Paris, Schleicher Frères. 1898. Pp. vii + 379.

#### SCIENTIFIC JOURNALS AND ARTICLES.

THE New England Botanical Club has established a journal to encourage the study of the local flora. It has been given the name *Rhodora* and will be published monthly at 740 Exchange Building, Boston. The editor-in-chief is Mr. B. L. Robinson, with Messrs. F. S. Collins, M. L. Fernald and Hollis Webster as associate editors. The first number, which contain twenty pages and two plates, opens with an editorial announcement, followed by a number of inter-