

# 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.

## STUDIES ON FOSSIL FISHES DURING THE YEAR 1907<sup>1</sup>

SINCE the establishment of a merciful Concilium Bibliographicum it is not necessary for us either to wait for generous authors to donate separates, or to ransack files of literature to find the annual doings in each of our fields of inquiry. In the field in which I am especially interested, that of the lowest groups of fossil vertebrates, the Concilium will give you the full *récolte* of references and spare you my list of them—and titles in plenty there are in all the groups of fishes, from primitive sharks to the most complicated teleosts. There are papers systematic on the fossil fishes of California, on new sticklebacks, surgeon fishes, prosturgeons, conodonts—there are papers on the anatomy of fossil fishes, acanthodians and placoderms, and there are not lacking references to the descent of the fishes and to the philosophy of their evolution, as in Eastman's monograph on the fossil fishes of New York, Smith Woodward's address before the Paleontological Society, Patten's continued studies on *Bothriolepis*, and Jaekel's remarks upon the "nest" of placoderms which he has brought to light in the Upper Devonian of Wildungen.

But from all these references we can for the present review only those which bear upon the greater problems.

Our first inquiry, in considering the advances in paleichthyology, is whether the

<sup>1</sup>A portion of the address of the retiring president of the Society of Vertebrate Paleontologists, New Haven, December 27, 1907.