SCIENCE

FRIDAY, DECEMBER 13, 1918

CONTENTSProblems, Methods and Results in Behavior: Professor S. O. Mast 579 George Jennings Hinde: MARJORIE O'CON-NELL 588 Inquiry of the American Geographical Society for the Information of the Peace Commissioners 590 Scientific Events:-The Salters' Institute of Industrial Chemistry; The Influenza Epidemic; The Return of Chemists to the Industries; The American Psychological Association; The Yellow Fever Expedition of the Rockefeller Foundation Scientific Notes and News 596 University and Educational News 598 Discussion and Correspondence:-A League of Nations: Professor W. M. DAVIS. Experimental Osmosis with a Living Membrane: Professor Edward Kremers. 598 Quotations:-France's Share in Biology and Medical Science 600 Scientific Books:-Adami on Medical Contributions to the Study of Evolution: J. P. McM. 601 Special Articles:-Stylonichia impaled upon a Fungal Filament: D. H. Wenrich 602

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

PROBLEMS, METHODS AND RESULTS IN BEHAVIOR¹

INTRODUCTION

In every field of endeavor it is from time to time advantageous to pause long enough in the ordinary pursuits of the day to take our bearing, trace the course traveled and adjust plans for the future. I have attempted to do this in the field of behavior and I shall present in brief the result of this attempt.

What I have to offer is in no sense a finished product. It should be looked upon rather as the opening of a discussion, a brief exposition of certain ideas which I hope will be criticized from various points of view.

HISTORICAL REVIEW

Before the renaissance no practical problems in behavior were recognized. All activities in organisms, plants as well as animals, were held to be under the control of souls, agents not amenable to law and not subject to experimental analysis.

Descartes early in the seventeenth century came to the conclusion, partly from the results obtained in observations, partly on the basis of philosophic speculation, "that the bodies of animals and men act wholly like machines and move in accordance with purely mechanical laws." Under the inspiration of this idea, Borelli and others undertook to reduce certain reactions to purely physical and chemical or mechanical principles. Somewhat later Ray, Dodart, Du Hamel and others attempted to account for the movements in plants on the same basis. Thus the science of behavior had its origin, and, strange as it may seem, the fundamental problem before it in its youngest days was to reduce reactions to mechanical principles.

The investigators interested in this en-1 An address delivered at the Marine Biological

Laboratory, Woods Hole, Mass., July 15, 1918.



	-		
48	11	25	N

Science 48 (1250), 579-604.

ARTICLE TOOLS http://science.sciencemag.org/content/48/1250.citation

PERMISSIONS http://www.sciencemag.org/help/reprints-and-permissions

Use of this article is subject to the Terms of Service

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. The title Science is a registered trademark of AAAS.

Copyright © 1918 The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works.