

SCIENCE

A Weekly Journal devoted to the Advancement of Science, publishing the official notices and proceedings of the American Association for the Advancement of Science, edited by J. McKeen Cattell and published every Friday by

THE SCIENCE PRESS

11 Liberty St., Utica, N. Y. Garrison, N. Y.
New York City: Grand Central Terminal

Annual Subscription, \$6.00. Single Copies, 15 Cts.

Entered as second-class matter January 21, 1922, at the Post Office at Utica, N. Y., under the Act of March 3, 1879.

VOL. LV JUNE 23, 1922 No. 1434

CONTENTS

<i>Research Institutes and their Value:</i> DR. FRANCIS CARTER WOOD.....	657
<i>The Effect of the Nature of the Diet on the Digestibility of Butter:</i> DR. ARTHUR D. HOLMES	659
<i>Are Scientists encouraging Popular Ignorance:</i> PROFESSOR EUGENE C. BINGHAM.....	664
<i>American Committee to aid Russian Scientists with Scientific Literature:</i> DR. VERNON KELLOGG	667
<i>Scientific Events:</i> <i>The Agitation against the Teaching of Evolution; The Proposed Bombay School of Tropical Medicine; The Royal Academy of Belgium; The Royal Geographical Society; Sigma Xi at the University of Kentucky; Dean of the Sheffield Scientific School</i>	669
<i>Scientific Notes and News.....</i>	672
<i>University and Educational Notes.....</i>	675
<i>Discussion and Correspondence:</i> <i>Observations of Falling Meteorites:</i> DR. GEORGE P. MERRILL. <i>Origin of Soil Colloids:</i> DR. NEIL E. GORDON. <i>A Crayfish Trap:</i> E. C. O'ROKE.....	675
<i>Special Articles:</i> <i>The Relation between Photic Stimulus and the Rate of Locomotion of Drosophila:</i> DR. WILLIAM H. COLE. <i>The Structure of Benzene:</i> MAURICE L. HUGGINS.....	678
<i>The American Association for the Advancement of Science:</i> <i>Meeting of the Executive Committee of the Council:</i> PROFESSOR BURTON E. LIVINGSTON. <i>Permanent Secretary's Report. Section M—Engineering and Associated Societies:</i> DR. PETER GILLESPIE.....	680

RESEARCH INSTITUTES AND THEIR VALUE¹

IN this restless, drifting world in which we now live, even intelligent people are not always appreciative of the fact that many if not most of the great intellectual achievements in various fields have been accomplished only when the thinker has been protected from the interruption and annoyance of passing events and permitted to work out his ideas somewhat apart from the general current of existence. In the Middle Ages, the alchemist, the philosopher or the mathematician retired to a garret or cellar and there achieved his purpose, and even to this day the idea that starvation and a garret are successful stimulants to scientific investigation clings persistently to the popular mind, together with so many of those superstitions by which humanity is still largely guided. Truth is that the thinking man in the middle ages was driven into a garret and often compelled to accept poverty because his thoughts or discoveries had no commercial value or popular interest, and, if published, sometimes led to controversies settled once for all by that unanswerable argument of authority, the fagot and the stake. The example of Servetus must surely have been a severe blow to hasty publication. One of the early masters of medicine, he died a martyr to his printed opinions at the early age of 42, his old friend, John Calvin, seeing to it, it is said, that the fire was well started.

But the time when important extensions of the boundaries of knowledge, especially in science, can be accomplished in garret or cellar with no material except brains, a little sealing wax, some wire and a few pieces of glass,

¹ An address delivered at the opening of the new laboratory building of the Collis P. Huntington Memorial Hospital, Harvard University, May 15, 1922.

Science

55 (1434)

Science **55** (1434), 657-684.

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