

# SCIENCE

VOL. 96

FRIDAY, AUGUST 28, 1942

No. 2487

<i>Mosquitoes, Malaria and the War in the Pacific</i> : EDWARD PHILPOT MUMFORD .....	191	<i>Societies and Meetings</i> :	
<i>Mechanism of Action of Ordinary War Gases</i> : PROFESSOR CHAUNCEY D. LEAKE and DAVID F. MARSH .....	194	<i>The American Phytopathological Society</i> .....	207
<i>Obituary</i> :		<i>Special Articles</i> :	
<i>Jacob Gould Schurman, 1854-1942</i> : PROFESSOR R. M. OGDEN. <i>Deaths and Memorials</i> .....	197	<i>The Effects of Jejunal Transplants on Gastric Acidity</i> : PAUL STEFKO, DR. WILLIAM DEW. ANDRUS and JERE W. LORD, JR. <i>The Effects of Anti-Microbial Substances of Biological Origin upon Bacterial Toxins</i> : DR. ERWIN NETER. <i>Carotenoids of Telial Galls of <i>Gymnosporangium Juniperi-virginianae</i> Lk.</i> : DR. B. L. SMITS and DR. W. J. PETERSON .....	208
<i>Scientific Events</i> :		<i>Scientific Apparatus and Laboratory Methods</i> :	
<i>The National Parks Association; The Pennsylvania State Forests; The Beach Plum Prizes of the Arnold Arboretum; The University of Michigan</i> .....	198	<i>Chromatographic Analysis in Reverse</i> : DR. ARNOLD LOWMAN .....	211
<i>Scientific Notes and News</i> .....	200	<i>Science News</i> .....	8
<i>Discussion</i> :			
<i>The Production of Two Antibacterial Substances, Fumigacin and Clavacin</i> : PROFESSOR S. A. WAKSMAN, ELIZABETH S. HORNING and DR. ERNEST L. SPENCER. <i>Natural Protection Against Sunburn</i> : DR. HAROLD F. BLUM and JOHN S. KIRBY-SMITH. <i>The Listing of Medical Schools</i> : PRESIDENT RAYMOND WALTERS. <i>The Shot-put and the Earth's Rotation</i> : DR. JOSEPH O. THOMPSON. <i>Statement</i> : DR. W. F. G. SWANN .....	202		
<i>Quotations</i> :			
<i>War Metallurgical Research</i> .....	205		
<i>Scientific Books</i> :			
<i>Astronomy</i> : DR. CHARLES H. SMILEY .....	206		

## MOSQUITOES, MALARIA AND THE WAR IN THE PACIFIC<sup>1</sup>

By EDWARD PHILPOT MUMFORD

OXFORD UNIVERSITY AND STANFORD UNIVERSITY

THE recent fall of Bataan was attributed mainly to malaria and lack of quinine by the United Press correspondent, Frank Hewlett, writing in *The New York Times* for April 18, and other observers. In the last war malaria took first place among the diseases responsible for casualties. Even in normal times, it is one of our most important public health problems.

<sup>1</sup>"Studies on Faunal Distribution," No. 7. These studies have received the support of the Carnegie Corporation of New York, the National Academy of Sciences, the American Association for the Advancement of Science, the Society of Sigma Xi, the American Philosophical Society, the May Esther Bedford Fund, Incorporated, and various subscribers to the Oxford University Chest. See G. D. Hale Carpenter, *SCIENCE*, 95: 325-326, 1942.

With the Dutch East Indies now largely in enemy hands, the principal source of supply of the world's quinine is lost to the United Nations, and although synthetic anti-malarials have been in use for some time, one can not overestimate the seriousness of a quinine shortage. Because of a low toxicity, and the fact that careful medical supervision is not required, quinine is still the most valuable drug for malarial prophylaxis and the treatment of acute malaria. There is no drug known to-day which can completely replace quinine and the other cinchona alkaloids. Because of these and other factors which are obvious, it is particularly important at this time to consider

# Science

**96 (2487)**

*Science* **96** (2487), 191-212.

**ARTICLE TOOLS**

<http://science.sciencemag.org/content/96/2487.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. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.