

Editor: Willard L. Valentine

Assistant Editor

Mildred Atwood

Business Manager

Theo. J. Christensen

Publications Committee

**Roger Adams, John E. Flynn, Kirtley F. Mather,
Walter R. Miles, W. J. Robbins, Malcolm H. Soule**

Science

Vol. 105

No. 2720

Friday, February 14, 1947

CONTENTS

Harlow Shapley: President of AAAS, 1947: <i>Otto Struve</i>	163
Anesthesia's Second Power: Probing the Mind: <i>Henry K. Beecher</i>	164
The International Congress for Applied Mechanics: Paris, September 22-29, 1946: <i>Hugh L. Dryden</i>	167
The Organization of Arthropod Cuticle: A Modified Interpretation: <i>A. Glenn Richards</i>	170
<i>News and Notes</i>	171
<i>Comments by Readers</i>	175
Technical Papers	
Synthetic Caffeine: <i>Charles C. Scott, E. Brown Robbins, and K. K. Chen</i>	176
Visibility of the Deer Fly in Flight: <i>Elek Ludvig</i>	176
Production of Yellow Bean Mosaic in Beans by Virus From Mottled Gladiolus: <i>F. P. McWhorter, Lytton Boyle, and B. F. Dana</i>	177
Production and Treatment of Hepatitis With Focal Necrosis of the Liver in White Mice: <i>Paul Engel</i>	178
Forty-Five Years of Continuous Cropping With Lima Beans: <i>Francis L. Smith, A. H. Holland, and John H. MacGillivray</i>	179
Role of Axis Cylinder in Transport of Tetanus Toxin: <i>Paul G. Roofe</i>	180

Therapy of Experimental Tsutsugamushi Disease (Scrub Typhus): <i>W. F. McLimans and C. W. Grant</i>	181
Insecticidal Action of 1-Trichloro-2,2-Bis(p-Bromophenyl) Ethane (Colorado 9): <i>George M. List and Merle G. Payne</i>	182
Lesions of the Pancreatic Islets Produced in Cats by Administration of Glucose: <i>F. C. Dohan and F. D. W. Lukens</i>	183

In the Laboratory

A Technique for Aeration of Sterile Liquid Culture Medium: <i>Gordon E. Hunt</i>	184
Studies on the Stability of Streptomycin in Solution: <i>E. J. Oswald and J. K. Nielsen</i>	184
A New Type of Electroencephalographic Electrode Coordinator With Semipermanent Electrodes: <i>Marvin A. Buffington and Andre A. Weil</i>	185
Briquettes With Labels: <i>Ernest E. Fairbanks</i>	186
Ultraviolet Radiation as a Means of Sterilizing Tissue Culture Materials: <i>J. Gordon Carlson, Alexander Hollaender, and Mary Esther Gaulden</i>	187
The Production of Phenocopies in <i>Drosophila</i> Using Visible Light and a Photodynamic Dye: <i>Claude A. Villee and George I. Lavin</i>	188
A Qualitative Test for Penicillin: <i>Frederick Kavanagh</i>	189

Book Reviews

Patterns of mammalian reproduction: S. A. Asdell. Reviewed by <i>Emil Witschi</i>	190
Microcalorimetry: W. Swietoslawski. Reviewed by <i>Frank T. Gucker, Jr.</i>	190

(Cover photograph by Press Association, Inc.)

Science, a weekly journal, is published each Friday by the American Association for the Advancement of Science at Mt. Royal & Guilford Avenues, Baltimore 2, Maryland. Founded in 1880, it has been since 1900 the official publication of the AAAS. Editorial, Advertising, and Circulation Offices, 1515 Massachusetts Avenue, N.W., Washington 5, D. C. Telephone, EXecutive 6060 or 6061.

Articles offered for publication should be sent to the Editor, 1515 Massachusetts Avenue, N.W., Washington 5, D. C.

Membership correspondence for the AAAS should be sent to the Administrative Secretary, 1515 Massachusetts Avenue, N.W., Washington 5, D. C.

Change of address. Four weeks notice required for change of address. When ordering a change, please furnish an address stencil label from a recent issue. Address changes can be made only if the old as well as the new address is supplied.

Annual subscription, \$7.50; single copies, \$.25; foreign postage (outside the Pan-American Union), \$1.00 extra; Canadian postage, \$.50 extra. Remittances and orders for subscriptions and for single copies, notices of changes of address, and claims for missing numbers should be sent to the Circulation Department.

Entered as second-class matter July 18, 1923, at the postoffice at Lancaster, Pennsylvania, under the act of March 3, 1879. Re-entered as second-class mailing matter under the act of March 3, 1879, January 17, 1947, at Baltimore, Maryland.