

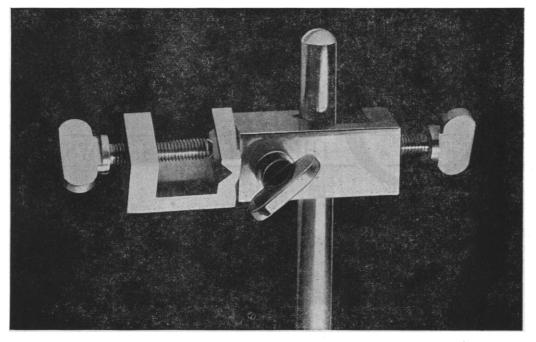


A group of principals present at the award of the Whittlesey House-Science Illustrated \$10,000 prize to Clyde Kluckhohn for his manuscript, Anthropology and the world today. Left to right: Gerald Wendt, managing editor, Science Illustrated, who was chairman of the Judging Committee; Clyde Kluckhohn, who won the prize; Waldemar Kaempffert, who served on the Judging Committee; John O'Neill, science editor, New York Herald Tribune; and Paul Montgomery, publisher, Science Illustrated (see News and Notes).

Published by the AMERICAN - ASSOCIATION: FOR THE **ADVANCEMENT** OF SCIENCE

Cosmic Radiation and Cancer Frank H. J. Figge

A SWIVEL THAT HOLDS



Swivel Clamp-One-tenth enlarged

Accurately machined from brass and durably nickeled. The swivel-joint is fixed by an adjusting screw bearing internally upon a frictional device which requires only slight tension for a secure grip.

The cut is slightly enlarged to match the diameters of the new *Heavy Clamp*, which is without swivel but with knurled heads and with jaws of $\frac{3}{4}$ -inch capacity. Material and finish are the same for both clamps.

Write for the current price-list of physiological apparatus.

The HARVARD APPARATUS COMPANY, Incorporated

Dover, Massachusetts

(Organized on a non-profit basis for the advancement of teaching and investigation in physiology and allied sciences)

TIMELY . . . SIGNIFICANT! Dr. Tom D. Spies' New Book REHABILITATION THROUGH BETTER NUTRITION

D^{R.} SPIES, distinguished authority on nutrition, makes available through this monograph a tremendous amount of factual data based on extensive study of one of the most pressing and serious problems of modern times. Today, more people are starving than ever before in the history of the world. Right in our own United States, surveys have made plain that the nutritional quality of the diets of many of our people leaves much to be desired. The magnitude of the task of rehabilitating the men, women and children suffering from poor nutrition in its various stages or levels cannot be overestimated.

To provide practical understanding of this task and to supply effective, clinically authenticated guidance in its accomplishment, are the chief objectives of this book. It is based on the University of Cincinnati Studies in Nutrition at the Hillman Hospital, Birmingham, Alabama.

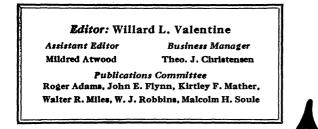
Dr. Spies first takes up the diagnosis of the various deficiencies and the diseases which are the objective signs of these deficiencies, amplifying the text with many valuable tables, charts and vivid illustrations, including 8 in color. Then he follows with a specific consideration of therapeutic principles and results, giving actual menus for 4000-calorie liquid, semi-solid, and solid diets; low calorie diet; and discussing also synthetic vitamins, dried brewers' yeast powder and liver extract. A Recapitulation and a selected list of references conclude the book.

The entire presentation is marked by its concise, direct style; its reflection of the author's vast experience; and its wealth of practical, applied information. By Tox D. SPIES, M.D., From the Department of Internal Medicine, University of Cincinnati College of Medicine. 94 pages, $6^{\prime} \times 9^{\prime}$, illustrated, 8 in colors. Just Ready

W. B. SAUNDERS COMPANY

West Washington Square

Philadelphia 5



Vol. 105

Friday, March 28, 1947

CONTENTS-

No. 2726

Cosmic Radiation and Cancer: Frank H. J. Figge	3 23
Does Patent Consciousness Interfere With Cooperation Between Industrial and University Research Laborato- ries?: L. A. Hawkins	326
Theory of Reactions of Cells to Goitro- genic Thiopyrimidines: Louis Laufer and Earl D. Stewart	327
News and Notes	329
Comments by Readers	333

Technical Papers

Control of Cracking of Fruit by Rain: W. L. Powers and W. B. Bollen	334
Methionine Metabolism and A-Aminobutyric Acid: Charles E. Dent	335
Failure to Produce Neoplasms in Rats by Feeding Heated Wheat-Germ Oil: Charles Hoffman, et al	

120

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. Cable address, SCIMAG.

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.

The Occurrence of Two Fertile Florets in the Spikelets of Chloris: Mildred P. Mauldin	
Translocation of a Radioactive Plant-Growth Regulator in Bean and Barley Plants: John W. Wood,	
J. W. Mitchell, and George W. Irving, Jr	337
In the Laboratory	
Inactivation of 2,4-D by Adsorption on Charcoal:	

cience

E. H. Lucas and C. L. Hamner	340
Pilometric Measurements and the Rheological Prop- erties of Hair: <i>Alfred Lewin Copley</i>	340
A New Method for the Direct Recording of Prolonged Time-dependent Processes: Wolf von Wittern	342
Experimental Production of Anti-Rh Sera by the Use of Human Erythrocyte Stromata: Fred W. Gallagher and George P. Pillischer	344

Book Reviews

Principles of radar: IMembers of the Staff, Radar School, Massachusetts Institute of Technology. Reviewed by <i>Edwin R. Sanders</i>	. 345
Scientific Book Register 34	46

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 January 17, 1947, at the postoffice at Baltimore, Maryland, under the act of March 3, 1879.