January 24, 1947

cience

THE SCIENTISTS NEWSWEEKLY

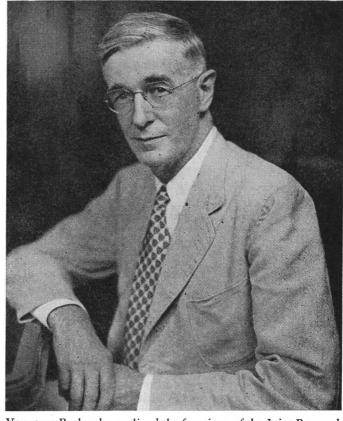
News and Notes

Technical Papers

In the Laboratory

Book Reviews

Scientific Book Register



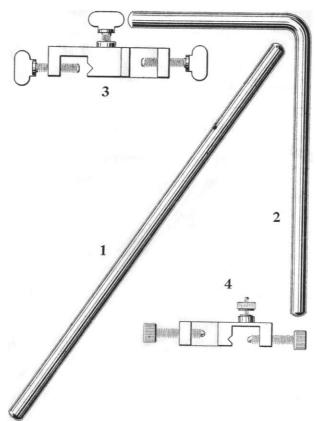
Vannevar Bush, who outlined the functions of the Joint Research and Development Board before a group of engineers in Washington on January 14.

Dr. Bush and 11 other key members of OSRD received the official thanks of the Government through President Truman at an informal ceremony in the Executive Offices on January 20. The event concluded the wartime activities of OSRD.

Published by the **AMERICÁN ASSOCIATION** FOR THE ADVANCEMENT

OF SCIENCE The Machine, the Worker, and the Engineer Robert K. Merton

For PHYSIOLOGICAL and other LABORATORIES



(One-half the actual size)

- 1. 8-MM. Mounting Rod. Solid or tubular: the latter is designed both for support and as a convenient conduit for electrical wiring.
- 2. Right-Angle Rod. A rigid and accurately formed support for universal adjustment of position.
- 3. Swivel Clamp. The swivel gives complete rotation and has a special hold-fast set screw. Made, like 1 and 2, of nickeled brass.
- 4. Clamp with Binding-Post. Our regular double clamp with binding screw added for quick wiring operations. Stainless steel, with nickeled brass fittings. The accurately machined jaws will take diameters of 14 mm. to 1 mm.

We also make a *Heavy Clamp* without swivel, $\frac{3}{4}$ inch capacity; and a *Tunnel Clamp*, for control of infusion.

Write for the Descriptive Catalogue

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)

HARROW'S

BIOCHEMISTRY

Fundamental Facts Applied

● ? The fundamental facts of biochemistry—and their application—are thoroughly covered in this stimulating and authoritative text. Long a leader in its field, the book tells the story of biochemistry in the form of closely knit chapters, written in simple and clear English—and vividly illustrated with 143 figures.

Dr. Harrow's extensive experience as a teacher and as a laboratory worker has enabled him to organize his subject so thoroughly that the student is led fully prepared into each succeeding discussion. For this *Fourth Edition* he has incorporated latest developments and revised a great many chapters.

Most significant is the inclusion throughout the book of the results of experimental work with radioactive isotopes, so-called tracer elements. The chapter on foods has been revised to cover the effects of food processing, war research and the European food problem. The vitamin chapter now includes a discussion of microbiological methods of vitamin assay. The material on the sulfonamides has been brought up-to-date and enlarged, and penicillin and other new antibiotics are covered.

By Benjamin Harrow, Ph.D., Professor of Chemistry, The City College, College of the City of New York. 592 pages, 6°x 8°, illustrated. \$4.25.

Harrow's Laboratory Manual of Biochemistry

Adapted to Courses of One or Two Semesters

This Laboratory Manual provides precise directions for experiments covering the preparation, the qualitative and quantitative chemical examination of a large number of substances of biochemical importance. Designed for use with any standard textbook. Adapted to courses of one or two semesters.

By Benjamin Harrow, Ph.D., and Associates, City College, College of the City of New York. 132 pages, 6'x 9', Second Edition.

W. B. SAUNDERS COMPANY, West Washington Square, Phila. 5, Pa.

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

Vol. 105

No. 2717

Friday, January 24, 1947



		•
CONTENT	S	A New-Type Atomizer for Large-Scale Application of 2,4-D: C. L. Hamner and H. B. Tukey
The Machine, the Worker, and the Engi-		Yeast-like Organisms: R. F. Norris and A. J. Rawson . 105
neer: Robert K. Merton	79	Book Reviews
The Federal Government and the Shortage of Scientific Personnel: Charles V. Kidd	84	Allergy. (2nd ed.): Erich Urbach and Philip M. Gottlieb. Reviewed by A. M. Targow
News and Notes	89	duction agame: L. Bounoure. Reviewed by Charles Gurchot
		The chemistry of heterocyclic compounds:
Technical Papers		Avery A. Morton. Reviewed by <i>Fred E. Sheibley</i>
The Species Character of Cancer Cells: Robert G. Green. New Concept of Competitive Inhibition of the Renal	93	The prolongation of life: Alexander Bogomolets. Reviewed by Ernst T. Krebs, Jr
Tubular Excretion of Penicillin: Karl H. Beyer	94	Scientific Book Register
Some Effects of O-Isopropyl N-Phenyl Carbamate Upon Cereals: W. B. Ennis, Jr	95	(Cover photo by Harris Q. Ewing)
Is Sterility Induced in Growing Rats on a Tryptophane- deficient Diet?:		
	96	SCIENCE: A Weekly Journal, since 1900 the official organ of the
Cypress Domes: Robert O. Vernon	97	American Association for the Advancement of Science. Published by the American Association for the Advancement of Science every Friday at Baltimore, Maryland.
In the Laboratory		Editorial Advisers: W. L. Hart, Karl L. Darrow, Farrington Daniels, Otto Struve, H. R. Aldrich, George A. Baitsell, William Crocker, F. H. H. Roberts, Jr., Robert H. Seashore, Edward P. Hutchinson, Chauncey D. Leake, J. C. Hunsaker, W. J. Nungester, W. A. Albrecht, W. C. Olson,
The Concentration and Preservation of Urinary Substances by Lyophilization: <i>Harry B. Friedgood, et al.</i>	99	W. F. G. Swann. Communications relative to articles offered for publication should be
Elementary Isotopic Analysis: Determination of Carbon:	•	addressed to Editor, 1515 Massachusetts Avenue, N.W., Washington 5, D. C. Communications relative to advertising and subscriptions should be
A. V. Grosse, A. D. Kirshenbaum, and S. G. Hindin. 1	100	addressed to Theo. J. Christensen, Mt. Royal and Guilford Avenues,
Immobilizing Paramecia for Study in the Introductory Course: Karl A. Stiles and Dorothy A. Hawkins	101	Baltimore, and 1515 Massachusetts Avenue, N.W., Washington 5, D. C. Communications relative to membership in the Association and to all matters of business of the Association should be addressed to the
The Purification of Diphtherial Toxoid: Louis Pillemer and David Toll	102	Administrative Secretary, AAAS, 1515 Massachusetts Avenue, N.W., Washington 5, D. C.
A Simple Anaerobic Method of Obtaining Plasma:	102	Annual subscription, \$7.50 Single copies, 25 cents Entered as second-class matter July 18, 1923 at the Post Office at
Horace W. Davenport	103	Lancaster, Pa., under the Act of March 3, 1879.
-	103	(Application for re-entry to the second class of mail matter under the