Officers of the American Psychological Association: Helen Peak, Connecticut College, recording secretary; Donald G. Marquis, University of Michigan, president-elect; Carl R. Rogers, University of Chicago, president; and Dael Wolfe, executive-secretary. The late Willard L. Valentine, editor of Science, was treasurer. The officers and Board of Directors met at the University of Michigan on March 28–30, 1947.
Observing the data shown by a Knorr-Albers Microphotometer used in metallurgical research and quality control by Koppers Co., Inc., American Hammered Piston Ring Div., Baltimore, Md.

SPECTROGRAMS
“Write” their own Analyses
With a
KNORR-ALBERS
MICROPHOTOMETER

Spectrographic analysis has new speed and accuracy when implemented with a Knorr-Albers Microphotometer, particularly in such general situations as these:

1. Examinations of negatives which contain spectrum lines of unknown metals.

2. Examinations in which a relatively large number of spectrum lines are present.

3. Examinations in which an automatic record is desired.

The Knorr-Albers equipment passes a beam of light through the spectrogram onto a photocell, in such a way that the varying film densities modulate the light to the cell, and cause corresponding variance in the current from the cell. The equipment’s Speedomax Recorder shows this current as a continuous graph. It preserves data both of peak density and of lines which might be hardly visible if projected.

The equipment is completely described in our 12-page Catalog E-90(1), which will be sent on request.
Distinguished for Its Simplicity in Dealing with Difficult Subjects

HOWELL-FULTON'S

TEXTBOOK of PHYSIOLOGY

Fifteenth Edition

This book is distinguished for its simplicity in dealing with difficult subjects, and its clarity and force in describing physiologic processes. In the Fifteenth Edition those facts which are directly helpful in pathology, diagnosis, therapy and the other practical branches of medicine are stressed much more than ever before. 507 vivid illustrations, more than half of them new, have been included by the authors to add to the book's effectiveness and clarity. Many new fields of active physiologic research are revealed in the text, and many new facts are presented for the first time. The recent references to monographs and journal literature are included.

For more than 40 years, Howell's Physiology has held its leadership; and the Fifteenth Edition, emphasizing applied physiology as it does, has enhanced the book's prestige to an even greater degree.

From first page to last, you will be impressed with the new authority, up-to-date approach and stimulating freshness of this classic work. It is unhesitatingly recommended to all interested in the field of human physiology.

Edited by John F. Fulton, M.D., Sterling Professor of Physiology, Yale University School of Medicine, with Collaboration of 10 Other Authorities. 1304 pages, 6" x 9\(\frac{3}{4}\)", 507 illustrations, many in colors. $8.00
Circulation

Vol. 105 No. 2728 Friday, April 11, 1947

CONTENTS

Fundamental Research in the Clinical Specialties: V. Everett Kinsey

Environment and Food Intake in Man: Robert E. Johnson and Robert M. Kark

The Terminology of Pollination: J. R. King and R. M. Brooks

News and Notes

Comments by Readers

Technical Papers

The Effect of Body Temperature on the Duration of Barbiturate Anesthesia in Mice: Frederick A. Faustman


Treatment of Plutonium Poisoning by Metal Displacement: Jack Schubert

Effect of Temperature on the Growth and Sterility of Maize: Donald F. Jones

Failure of Sodium Salicylate to Inhibit Hyaluronidase in Vitro: Robert M. Pike

The Carcinogenic Action of Smegma: Alfred Plaut and Alice C. Kohn-Speyer

In the Laboratory

A Simple Laboratory Apparatus for the Demonstration of Cardiac Ballistics: Vernon E. Krab

Control of Nosema Disease of Potato Tuber Worm, a Host Used in the Mass Production of Macrocentrus aecylisorus: H. W. Allen and M. H. Brunson

A Single Flashlight Source for Ultracentrifuge Research: Lionel L. Lipschultz and Kurt G. Stern

An Apparatus for the Determination of the Tensile Strength of Healing Wounds: Jesse Charney, Martin B. Williamson, and Finn W. Bernhart

Book Reviews

Analytical method in dynamics: H. O. Newboul

Reviewed by Henry Margenau

Scientific Book Register

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, $1.50; foreign postage (outside the Pan-American Union), $1.00 extra, Canadian postage, $0.50 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 post-office at Baltimore, Maryland, under the act of March 3, 1979.
CARLSON

Introduction to Modern Economics
By Valdemar Carlson, Antioch College

This text will give the beginning student the basic knowledge he will need in dealing with modern problems of public policy. Emphasis is upon general principles giving students the essential perspective for the solution of specific problems. 337 Pages. $3.50 (1946)

HALM

Monetary Theory (2nd Edition)
By George N. Halm, Tufts College, and The Fletcher School of Law and Diplomacy

This is a timely study of the fundamental problems of money, credit, etc. It deals with the quantity theory, international payments, investment funds, interest rates and the credit system in general including the full employment policy. Important developments due to The Bretton Woods Conference and war-occasioned changes in financial structure are included. 491 Pages. $3.50 (1946)

AMERICAN ECONOMIC ASSOCIATION

Readings in Business Cycle Theory—Volume II
(Selected by a Committee of The A.E.A.)

This volume gives in clear perspective an over-all picture and intimate analysis of Business Cycle Theory oriented toward the instruction of senior and graduate students and to the use of professional economists. Methods of technical analysis of variations are clearly set forth. 494 Pages. $4.00 (1946 Reprinted)

AMERICAN ECONOMIC ASSOCIATION

Readings in the Theory of Income Distribution—Volume III
(Selected by a Committee of The A.E.A.)

An over-all picture of the subject oriented toward the instruction of senior and graduate students and as an aid to the professional economist. The articles were written by a cosmopolitan group and include many of the foremost writers in the field. Some of the subjects discussed are: National Income; Production Function; Marginal Productivity; Wage Theory, Wage Policy of Trade Unions; Interest; Profit; Rent, etc. 718 Pages. $4.25 (1946)

THE BLAKISTON COMPANY

PHILADELPHIA 5, PA.

Ask for our latest list of books for students and economists

Order-form

THE BLAKISTON CO., Philadelphia 5, Pa. Please send and charge my acct., the following:

BOOKS

NAME

ADDRESS

3
Simply dissolve 85 gr. Sodium Hydroxide in 800 ml distilled water: allow to cool; add Technicon Nessler Salt; add water to make one liter, and presto! you have Nessler Solution ready for use. Produces a clear amber solution with ammonia. Unaffected by carbonates. Remains stable for a long period.

TECHNICON COMPANY
215 East 149th St. - New York 31, N. Y.

For descriptive matter write to
O. C. RUDOLPH & SONS
Manufacturers of
OPTICAL RESEARCH AND CONTROL INSTRUMENTS
P. O. BOX 446
Caldwell, N. J.
The water temperature will be just right for smooth, even spreading: never too hot or too cold. No melting paraffin to distort tissues; no folds or wrinkles. No bubbles due to frequent water change... temperature stays constant day in, day out. Bulletin 6320 gives particulars: send for it.

TECHNICON COMPANY, 215 E. 149th St., New York 51, N. Y.
Clinical Chemistry Determinations Made Quickly—Simply—Accurately

PRE-CALIBRATED PHOTO-ELECTRIC COLORIMETER

No standards need be prepared. No calculations. No calibrations are necessary. The Leitz Pre-calibrated Photo-Electric Colorimeter is supplied complete with a hand-book of methods and calibration tables for 38 different bio-chemical procedures. These include all standard clinical determinations (see list). After presetting the instrument, the unknown is inserted and the reading on the meter noted. A calibration table indicates the concentration of the unknown. Variations encountered in visual color matching are completely eliminated. Identical readings on a specimen can be obtained by different laboratory workers.

This simplicity and convenience of operation is combined with the precision and sturdiness associated with Leitz instruments. Each Leitz Photo-Electric Colorimeter is individually calibrated. A high degree of accuracy is maintained in calibrating and preparing the final tables.

SOLUTION SUPPLY SERVICE

Accurately prepared standard reagents for clinical chemistry determinations can be obtained promptly from our "Solution Supply Service." Solutions are freshly prepared and immediately shipped.

Over 5000 Leitz Colorimeters are used daily by hospitals, clinics and physicians.

E. LEITZ, INC.
304 Hudson St., New York 13, N. Y.
Announcing Crystalline Penicillin G Sodium Merck

★ No refrigeration required for dry form.
★ Therapeutically inert materials which may act as allergens have been virtually eliminated.
★ Minimum irritation on injection as a result of removal of therapeutically inert materials.
★ Meets exacting Government specifications for Crystalline Penicillin G.
★ Penicillin G has been proved to be a highly effective therapeutic agent.

CRISTALLINE PENICILLIN G SODIUM MERCK
MERCK & CO., Inc. RAHWAY, N. J.
Manufacturing Chemists
An example of the mechanical precision in Bausch & Lomb optical instruments is found in the machining of a microscope objective cell. This cell holds just one of the lenses for a microscope objective. Made on an automatic screw machine with a diamond cutting tool, the outside shoulder of this part is held to a tolerance of \(+.00000", -.00014\)" to insure exact centration of the lens. Through such mechanical accuracies Bausch & Lomb creates optical instruments that are capable of taking full advantage of the lightwave precision to which many of the optical elements are made. Bausch & Lomb Optical Co., 642-D St. Paul Street, Rochester 2, N.Y.