Citizen, Patriot—*Saboteur*

His two sons enlisted the day after Pearl Harbor. He invests 10% of his weekly pay check in War Bonds. His job is a vital link in the production of war material. No man can put more intensity of purpose into his efforts to serve America.

Yet this Soldier of Production unwittingly can commit sabotage against America as serious as that of any bomb-planting secret agent. *His eyesight is letting him down—letting America down.*

He's always taken for granted the accuracy of his vision. He scarcely realizes that now he does not see sharply at close range.

Modern fighting machines are precision equipment. The product of many hours of finest workmanship can go to the scrap pile as the result of a single faulty visual impression.

Today America needs vision *at its best* as never before. Bringing vision to its best is the life work of a great corps of men, in your community and every community, who are skilled in the measurement of visual performance, trained and experienced in scientific correction of eyesight deficiencies. Their professional and technical services are invaluable to America today.

How long since you've had *your* eyes examined?

---

*BAUSCH & LOMB*

Optical Co. EST. 1853

An American scientific institution producing optical glass and instruments for military use, education, research, industry and eyesight correction.

*Science: published weekly by The Science Press, Lancaster, Pa.*

*Entered as second-class matter July 18, 1853, at the Post Office at Lancaster, Pa., under the Act of March 3, 1879.*
DISTINCTIVE BOOKS

**In Physiology:** THE HEMORRHAGIC DISEASES AND THE PHYSIOLOGY OF HEMOSTASIS. By Armand J. Quick, M.D., Marquette University.
XVII, 340 pages 9 tables 23 figures $5.00

**In Technic:** BLOOD SUBSTITUTES AND BLOOD TRANSFUSION. Edited by Stuart Mudd, M.D., University of Pennsylvania and William Thalhimer, M.D., Public Health Research Institute of the City of New York, Inc.
XI, 407 pages 94 figures $5.00

291 etchings showing 2711 figures
XII, 676 pages $6.50

**In Chemistry:** PHYSICAL CHEMISTRY FOR STUDENTS OF BIOLOGY AND MEDICINE (Third Edition). By David I. Hitchcock, Ph.D., Yale University School of Medicine.
XIV, 264 pages 22 figures $3.50

**In Nutrition:** NUTRITION AND CHEMICAL GROWTH IN CHILDHOOD. By Icie G. Macy, Ph.D., Director of the Research Laboratory of the Children's Fund of Michigan.
XXIV, 436 pages 151 tables 80 figures $5.00

**In Parasitology:** INTRODUCTION TO PARASITOLOGY. By A. S. Pearse, Ph.D., Duke University.
IX, 357 pages 448 figures $3.75

Published by CHARLES C THOMAS Springfield Illinois U.S.A.

---

**STANATHAN**

The "Particles" of Modern Physics

The material essential to an appreciation of modern physics and the newer concepts of atomic structure is presented in this text in a clear and intelligible manner. Experimental evidence upon which each concept is founded has been clearly discussed throughout. By J. D. Stranathan, University of Kansas.

211 Illus. 571 Pages. $4.00 (1942)

**FOLEY**

College Physics 3rd Edition

This successful textbook meets the needs of the beginning student. This third edition is a thorough revision based upon the helpful suggestions of teachers who have used former editions. Excellent illustrations, and new and extensive problems have been included. By A. L. Foley, Indiana University.

470 Illus. 757 Pages. $3.75 (1941)

THE BLAKISTON COMPANY :: Philadelphia
Special Products...

FOR VITAMIN ASSAY PROCEDURES

More than 200 universities, research institutions, pharmaceutical manufacturers and assay laboratories now use SMACO "Vitamin Test" diets.

If your laboratory is not already using these special products, we invite you to try them on the basis of the added convenience, economy and uniformity.

FOR MICROBIOLOGICAL ASSAY PROCEDURES

"Vitamin Free" Casein Hydrolysate SMACO
10 ml. and 100 ml. vials

FOR BIOLOGICAL ASSAY PROCEDURES

Vitamin A Test Diet U.S.P. XI
1—5 and 25 lb. quantities

Vitamin B-complex Test Diet
1—5 and 25 lb. quantities

Rachitogenic Diet No. 2 U.S.P. XI
1—5 and 25 lb. quantities

Salt Mixture No. 2 U.S.P. XI
1—5 and 25 lb. quantities

"Vitamin Test" Casein
1—5—25 and 100 lbs.

Complete information, prices and quotations on quantities larger than those listed above will be sent on request.

Your order or inquiry will receive our prompt attention.

Research Laboratories

S. M. A. CORPORATION

CHAGRIN FALLS, OHIO
GOLD SEAL COVER GLASSES ARE 100% AMERICAN MADE ... that deliveries can be made from stock ... same high quality, non-corrosive glass as was formerly available only from foreign sources.

Write for reduced prices, August 1942.

GOLD SEAL COVER GLASSES MICRO SLIDES

Write to...
CLAY-ADAMS CO., INC., 44 East 23rd Street, New York

---

INTERNATIONAL Clinical Model Centrifuge

the small centrifuge with:

- BOTH ANGLE and HORIZONTAL SEDIMENTATION.
- LARGE CAPACITY—200 ML.
- COMPLETE PROTECTION.
- HIGH SPEED—without heating.
- BALANCED—for smooth and quiet operation.

Send for Bulletin CC-1943

INTERATIONAL EQUIPMENT COMPANY
352 Western Ave.
Boston, Mass.

Makers of Fine Centrifuges for More than Forty Years
At the outbreak of World War I, America was largely dependent on Europe for many of the tools of science—dyes, chemicals, and laboratory glassware.

In 1915, "Pyrex" brand Laboratory Glassware was announced. Less than 150 items were listed but, through Corning Research, America was on its way to independence from foreign sources of supply.

In the past quarter of a century, America's chemists and scientists have contributed to our chemical independence. And Corning Research in Glass has helped to make us independent in laboratory glassware.

Today, in Catalog LP21, are listed more than 2700 laboratory glassware items. They provide laboratory technicians with the equipment for more accurate, faster, and better work. The availability of a few specific items may be affected by the war effort, consult your laboratory supply dealer.

Here are the tools to help speed the laboratories of America and its Allies on their way to Victory. Corning Research will continue to serve in peace as in war, and to contribute to higher standards of performance.

PYREX BRAND LABORATORY WARE

"Pyrex" and "Vycor" are registered trademarks and indicate manufacture by Corning Glass Works + Corning, New York
LAB-AID MICRO-SLIDE CABINETS

The new lab-aid micro-slide cabinets are made of seasoned wood and are so constructed that warpage and breakage cannot occur. Of improved design, made to stack with lab-aid steel cabinets now in use. Color—olive green to match steel cabinets.

U. S. Patent Pending

THE TECHNICON CO.,
NEW YORK, N. Y.
Introducing

dl - Calcium Pantothenate - Nopco*

Racemic mixture of calcium pantothenate . . . a white, odorless, powder . . . especially designed to provide a more economical source of pantothenic acid.

For those pharmaceutical and food manufacturers who require the pure dextrorotatory product, we offer

Calcium Pantothenate Dextrorotatory—Nopco*

A white, odorless, crystalline salt.

Technical data sheets on either product sent on request

*products of

CHEMICAL COMPANY

a subsidiary of National Oil Products Company

HARRISON, N. J.
Make Good on Every Job—

Welch Duo-Seal Pumps

have LARGE CAPACITY to handle quantity output
are SILENT IN OPERATION
and EXCEPTIONALLY DURABLE

GUARANTEED VACUUM—
.05 Micron (.00005 mm Hg.)

FREE AIR CAPACITY—
33.4 Liters Per Minute

OPTIMUM OPERATING SPEED
300 Revolutions Per Minute

OIL REQUIRED
650 ml. Duo-Seal Oil

This is the most widely specified Vacuum Pump for general purposes where good capacity and high vacuum are required.

This free booklet tells in detail the story of the Welch Duo-Seal Pumps

Write for your copy

DUO-SEAL PUMP, Motor Driven. Vacuum to less than .05 micron and free air capacity of 33.4 liters per minute ................ $140.00

Also supplied with a larger motor giving 57 liters free air capacity per minute and a vacuum of 0.1 micron ................ $155.00

Limited stocks on hand for immediate shipment.

W.M. Welch Scientific Company

1517 Sedgwick Street
Chicago, Illinois, U.S.A.
THE MISSION OF THE LAND-GRANT COLLEGES IN PROMOTING OUR GOOD NEIGHBOR POLICIES AMONG THE LATIN AMERICAN REPUBLICS

By E. J. KYLE

DEAN OF THE SCHOOL OF AGRICULTURE, AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, COLLEGE STATION, TEXAS

When the Morrill Act was passed by our United States Congress and approved by Abraham Lincoln in 1862, it brought into the world the first truly democratic program of higher education. It announced to the world that the people of this country believed that the son of the farmer, the son of the mechanic and the son of the shopkeeper were just as much entitled to an education in an institution of higher learning as the son of the independent rich. It also brought into the world for the first time the idea that the state and federal governments should help finance any form of higher education.

The masses of the people of the United States have never fully understood the mission or the work of the land-grant colleges, and, not understanding them, our people have never fully appreciated their accomplishments.

In this terrible and tragic world situation, when the forces of evil are striving with all their might to destroy completely the democratic peoples of the world