the ensemble being mounted on the top of the cover for the oscillograph about midway between the ends. The larger cylinder has cut in it two slots opposite each other on the upper and lower sides. Above the cylinder ensemble is mounted a small tubular light bulb. Below the cylinder in the top of the oscillograph box is cut a small transverse slit, five inches long. The small inner cylinder in which is cut anywhere from two to forty opposing slots is turned by a geared synchronous motor which revolves the cylinder at the rate of one revolution per second. Enlargement of one of these pairs of slots will provide heavier time lines at half-second intervals in addition to the regular markings at one-fourth, tenth or twentieth second intervals. Light from the bulb passes through the pairs of slots in the two cylinders whenever these slots coincide, and through the slotted box cover to a 90 degree reflecting prism or mirror where it is directed forward through the oscillograph condensing lens to a second mirror and onto the paper. Fig. 1 presents a diagrammatic sketch of the timer and mirror arrangement, and Fig. 2 a sample of time lines at one tenth second intervals as they appear on a skin resistance, respiration and electrocardiographic record made with the apparatus. The apparatus was built by A. E. Berdon, Yellow Springs, Ohio.

L. W. SONTAG
ELTON HUFF
SAMUEL S. FELS RESEARCH INSTITUTE, ANTIOWH COLLEGE

BOOKS RECEIVED


OCCASIONAL PAPERS OF THE
AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

Some Fundamental Aspects of The Cancer Problem

Symposium sponsored by the Section on Medical Sciences at Atlantic City, N. J., published under the direction of the following committee of workers in medical science: William Charles White, Chairman; Vincent du Vigneaud, C. C. Little, Esmond R. Long, and Carl Voegtlin. Edited by Henry B. Ward. These papers bring out the advances recently made in cancer research by leading investigators along the three main approaches to the problem: biology, chemistry and physics. A summary of the papers will be found in Science for February 5, 1937.

Price, cloth, $2.50; paper, $2.00

The Science Press
Lancaster, Pennsylvania

10 DAY FREE TRIAL OFFER

Any stopwatch listed in our catalogue No. 11, fully illustrating and describing more than 40 types of stopwatches. Ask for your FREE copy. No salesmen will call.

A. R. & J. E. MEYLAN
"Specialists in timing instruments."

266 West 40th St.
New York City, N. Y.

FOR SALE—American Anthropologist. Vols. 16 to 39 incl. Complete, perfect, unbound. Also some other anthropological works. Address J.P.M., care of Science, 3941 Grand Central Terminal, New York, N. Y.


PAUL F. GAERH
Aurora, N. Y.

ZERO TO EIGHTY

By Dr. E. F. Northrup
An exciting tale of an imaginary trip around the moon, based on scientific facts, and written by an eminent inventor of the Ajax-Northrup High Frequency Induction Furnace.

Illustrated $3.00

SCIENTIFIC PUBLISHING CO. Princeton, N. J.

THE SCIENCE PRESS PRINTING CO.

PRINTERS OF
SCIENTIFIC AND EDUCATIONAL JOURNALS,
MONOGRAPHS AND BOOKS
Correspondence Invited
LANCASTER, PENNSYLVANIA
Sixth Edition—Now Ready

American Men of Science
A BIOGRAPHICAL DIRECTORY
EDITED BY J. McKEEN CATTELL AND JAQUES CATTELL

The first edition of this BIOGRAPHICAL DIRECTORY OF AMERICAN MEN OF SCIENCE was published in 1906, the second edition in 1910, the third edition in 1921, the fourth edition in 1927 and the fifth in 1933. The present edition contains the records of about 28,000 living men of science, as compared with about 4,000 in the first edition. No single book of reference can cover the whole of North America and all lines of activity; it therefore becomes necessary to prepare special works. This volume, devoted to the men of science, sets standards in its treatment of a group on which the material prosperity and intellectual leadership of the country depend.

The book contains viii + 1608 pages. It has been edited with great care and is believed to be as complete and accurate as any work of the character. It is well printed by The Science Press Printing Company; the high standards of the typography and binding of the book are representative of its contents.

Price: Twelve Dollars, net, postage paid

THE SCIENCE PRESS
LANCASTER, PA.—GRAND CENTRAL TERMINAL, NEW YORK, N. Y.

SPRAGUE - DAWLEY, INC.
Pioneers in development of the standard laboratory rat

Madison, Wisconsin

CONTROL pH and PHOSPHATE with TAYLOR SLIDE COMPARATORS
Simple, rapid, accurate. Determinations made by filling 3 tubes with test material, adding reagent to middle tube and matching against standards in slide.

Full information on request.
W. A. Taylor & Co., Inc.
891 Linden Ave.
Baltimore, Md.

LANGUAGES Made easy By LINGUAPHONE

This amazing new Method enables you, in your own home, to speak and read any of 23 foreign languages in an incredibly short time. Endorsed by leading university professors and thousands of men and women as the quickest, simplest and most thorough language method. Send for catalogue and FREE Trial Offer.

LINGUAPHONE INSTITUTE
39 Rockefeller Center
New York City
ZEISS
BINOCULAR MICROSCOPE
LWoG

With Interchangeable Condenser Holders

o. Fixed sleeve suitable for Pancratic Condenser and those with attached iris diaphragm and filterholder.
d. Complete Abbe illuminating apparatus for all standard condensers.
z. Centering sleeve with vertical fine adjustment for special condensers.

For Research
Available range
From 22.5x to 5,400x

Offers the advantages of the L type stand that is now winning wide favor. Because focusing and adjusting knobs are located at the base of this stand, the operator's hands rest on the table during all manipulations. Thus vibration caused by tired arms is eliminated.

The fine adjustment has twice the accuracy of other stands, the engraved intervals representing .001mm. Use of the binocular tube "BITUKNI L" increases the normal total magnification of objectives and eyepieces by 50%.

Catalogue Free Upon Request

CARL ZEISS, INC.
485 Fifth Avenue
NEW YORK

CARL ZEISS
JENA

728 So. Hill Street
LOS ANGELES