A VALUABLE AID IN USING PHOTOGRAPHY AS A SCIENTIFIC TOOL

HERE IS A NEW EDITION of “Photographic Plates”—a valuable summary of the theory of the photographic process. It provides you with a wealth of specific technical information upon which you can plan the photographic procedures in your work.

Almost a third of the booklet is devoted to sensitometry and the characteristic “H & D” curve. Other chapters deal with emulsions and characteristics of specific types of materials used in scientific and industrial photography. Another section discusses and plots spectral sensitivity from the ultraviolet through infrared.

This booklet is replete with valuable data and information. It is free to those interested in the scientific and technical use of photography. To obtain a copy, write to the Eastman Kodak Company, Rochester 4, N. Y.

EASTMAN KODAK COMPANY, ROCHESTER 4, N. Y.
Please send me a copy of your booklet, “Photographic Plates for Scientific and Technical Use.”

Name ___________________________ Position ___________________________
Organization ___________________________
Address ___________________________
City ___________________________ Zone ___________ State ___________
NOW AVAILABLE

- Beckman Differential Thermometers
- Anscheutz Precision Thermometers
- Calorimeter Precision Thermometers
- Electrical Contact Thermometers
- Thermo-Regulators
- Porcelain Scale Thermometers (subdivided up to 0.01°C)
- Engraved Stem Thermometers (subdivided up to 0.01°C)
- Precision Level Vials
- Sensitive Micro-Mercury Switches
- Special Glass Apparatus, to order

Special Thermometers made to exacting specifications according to accuracy requirements of National Bureau of Standards.

All Thermometers and special glass apparatus are made by master-craftsmen with long years of experience in the Art and are unconditionally guaranteed as to workmanship and quality.

MALONONITRILE

NC—CH₂—CN

For a report on prolongation of life in mice infected with poliomyelitis virus, see Proceedings of the Society for Experimental Biology and Medicine, 72:15 (October) 1949.

For supplies of Malononitrile write to:

SPECIAL CHEMICALS DIVISION

Winthrop-Stearns Inc.
1450 BROADWAY, NEW YORK 18, N. Y.

GLASS ABSORPTION CELLS made by KLETT

Makers of Complete Electrophoresus Apparatus


Klett Manufacturing Co.
170 East 87 Street, New York, New York
New Books of Interest

INTRODUCTORY NUCLEAR PHYSICS
By David Halliday, University of Pittsburgh. Besides integrating problems and modern facts, this book explains the philosophical aspects of nuclear physics. Both the assumptions upon which theory is based and the results predicted by the theory are examined. Only the material consistent with modern thought on nuclear physics is stressed. Older concepts are revised in the light of current thought. A supplement at the end of the book contains several pages of the developments that took place in the field from the time the manuscript was finished until shortly before printing. The carefully selected problems were taken, whenever possible, from research papers in the literature. Special effort was made to be precise and consistent in terminology and the use of units. *Ready in August.* Approx. 540 pages. 282 illus. Prob. $6.00.

ANALYTICAL ABSORPTION SPECTROSCOPY
Edited by M. G. Mellon, Purdue University. With Eight Contributors. Covers the problems, methods, and equipment involved in measuring the absorptive capacity of a given sample for radiant energy in the spectral region of 0.2 to 25 microns. The nine authorities cover in detail the chemical problems of preparing samples for measurement and the physical problems of testing and operating instruments to obtain the information desired. Specific mention is made of the place of this kind of method with respect to the many other kinds used in analytical chemistry. A consistent nomenclature is proposed for the whole range of methods. *May 1950.* 618 pages. 290 illus. $9.00.

CONSERVATION of OUR NATURAL RESOURCES
Edited by Guy-Harold Smith, The Ohio State University. With 20 contributors. An authoritative study of the present needs and achievements in the field treating each natural resource in turn: soils, forests, water, minerals, etc. *Ready in August.* Approx. 490 double-column pages. 172 illus. Prob. $6.00.

MARINE GEOLOGY
By Ph. H. Kuenen, University of Groningen. This book summarizes the status of knowledge in the field of marine geology and presents a clear picture of the problems and salient points still requiring further investigation. *Ready in August.* Approx. 568 pages. 250 illus. Prob. $7.50.

Send for copies on approval.

JOHN WILEY & SONS, Inc.
440 Fourth Avenue New York 16, N. Y.
PHOTOMICROGRAPHY

with the new VISICAM

ECONOMICAL black & white and color 35-mm photomicrographs.
The VISICAM available with roll film carrier or the "SINGLE-SHOT" back.

At leading scientific supply houses, or write direct to:

ERB & GRAY

SPECIALISTS SCIENTIFIC & OPTICAL INSTRUMENTS

854 So. Figueroa St.
Los Angeles 14, Calif.

Valuable in studies of sugar metabolism

Phosphorylated Sugars

Fructose-6-phosphate (barium salt), glucose-1-phosphate (dipotassium salt), and phosphoglyceric acid (barium salt), three vitally important compounds in fermentation and enzyme reaction studies, are now available from Schwarz Laboratories, Inc. Also immediately supplied: Schwarz brand of fructose diphosphates (calcium, magnesium, and barium salts), purity 85 per cent minimum.

Schwarz fine chemicals satisfy the exacting requirements of products intended for use in biochemical or clinical research.

Write for revised price list

LABORATORIES, INC.

204 East 44th Street
New York 17, N. Y.

The American Association

for the Advancement of Science

during the 101 years of its existence, has grown steadily in membership, activities, and influence.

In the interests of science we invite you to assist its further expansion by nominating for membership a friend or colleague who does not now belong to the ranks of the AAAS.

MAIL this coupon NOW

To: AAAS, 1515 Massachusetts Ave., N.W., Washington 5, D. C.

I nominate the following person for A.A.A.S. membership:

NAME (Mrs., Dr., etc.) ...........................................................

POSITION ...............................................................................

ADDRESS .............................................................................

NOMINATED BY ...................................................................
BIOLOGICAL ACTIONS OF SEX HORMONES

by Harold Burrows

Second Edition, Revised

So much progress has been made since the first edition of this book was published in 1945 that this new edition has been completely revised and reset. The book contains an up-to-date coordinated summary of experimental work with the sex hormones and the reactions of living tissues toward them.

CONTENTS

Pt. I. GONADOTROPHINS OF THE PITUITARY AND PLACenta
Chap. I. The Nature and Functions of Gonadotrophins
II. Factors which Influence the Gonadotrophic Activity of the Pituitary
III. Factors which Influence the Reaction of the Gonads to Gonadotrophins
IV. Factors which Affect the Cytological Structure and Weight of the Anterior Lobe of the Pituitary

Pt. II. GONADAL HORMONES
Chap. V. A General View of the Gonadal Hormones

Pt. III. ANDROGENS
Chap. VI. Androgens
VII. The Action of Androgen on the Reproductive Organs before their Complete Differentiation
VIII. The Action of Androgen on the Reproductive Organs after their Complete Differentiation
IX. The Action of Androgen on the Accessory Generative Organs
X. The Action of Androgen on Tissues and Organs other than those already dealt with

Pt. IV. OESTROGENS
Chap. XI. Oestrogens
XII. The Action of Oestrogen on the Embryonic Gonads and Müllerian and Wolffian systems
XIII. The Action of Oestrogen on the Anterior Lobe of the Pituitary, and on the Gonads after their Differentiation

XIV. The Action of Oestrogen on the Accessory Genital Organs after their Differentiation, with a special reference to Inguinal Hernia
XV. The Action of Oestrogen on the Accessory Genital Organs (continued)
XVI. The Action of Oestrogen on the Accessory Genital Organs (continued)
XVII. The Effects of Oestrogen on the Mamma
XVIII. Factors in the Causation of Mammary Cancer
XIX. The Effects of Oestrogen on Connective Tissues and Skin
XX. The Actions of Oestrogen on Organs other than those considered in earlier chapters

Pt. V. PROGESTINS
Chap. XXI. Progestins
Chap. XXII. The Biological Actions of Progestin

Pt. VI. SEX HORMONES OF THE ADRENAL CORTEX
Chap. XXIII. Sex Hormones of the Adrenal Cortex

APPENDIX: International units of sex hormone activity
Preparations and synonyms of sex hormones

REFERENCES
INDEX

615 pages, $8.50

Order from your bookstore

Cambridge University Press

51 Madison Avenue, New York 10, N. Y.
LIMNOLOGICAL ASPECTS OF WATER SUPPLY AND WASTE DISPOSAL

This volume of 20 papers treats of a field of science of rapidly increasing importance. In it engineering and limnology meet, and government plays an important role.

The papers in this new volume are not simply academic discussions of possibilities, but of sound biological and engineering science as applied to current practice in northern Wisconsin and Minnesota. The 12 contributors to this volume are largely from that area, but several are connected with institutions from Ohio to Boston.

LaMOTTE
COMBINATION SWIMMING POOL SET

for small pools and those who do not care to install separate units for chlorine and alkalinity.

They are complete with 3 color standards for each test representing the upper and lower limits of chlorine (0.2, 0.5, 0.7) and alkalinity (pH 7.2, 7.6, & 8.0) together with reagents and necessary glassware.

These units are contained in a plastic comparator block, the top of which serves for making tests. The plastic blocks are moisture resistant and ideal for use around pools.

LaMotte Chemical Products Company
Dept. "H" Towson, Baltimore 4, Md.
ESSENTIALS OF PLANT BIOLOGY
By Frank D. Kern
"Designed for a one-semester course in elementary botany. The book employs a functional approach, yet presents basic botanical concepts in a progressive sequence which enables beginning students to obtain readily a clear understanding of the unity of plant life. . . Profusely illustrated with 260 figures, most of which are new and especially well adapted to the full development of textual concepts. . . . The excellence of content and style of the book will appeal to students and instructors." — W. F. Loewing, University of Iowa, in Science

440 pages $4.00

ANIMAL BIOLOGY
Fourth Edition
By Michael F. Guyer
"This new fourth edition marks an improvement in a book which has always been among the best in the field. It incorporates recent work to an extent suitable for elementary students and contains chapters, such as the one on biological aspects of human behavior, which help to link animal biology with matters of specifically human interest. The sagacious balance which Guyer maintains between detailed matter and general discussion makes ANIMAL BIOLOGY exceptionally well suited for our purposes." — H. M. Parshley, Smith College

784 pages Text $4.50 Manual $3.00

TEXTBOOK OF CHEMISTRY
Revised Edition
By Albert L. Elder, Ewing C. Scott, and Frank A. Kanda
A thorough revision of the first successful text to present general chemistry from a truly modern point of view. "One of the finest General Introductory Chemistry texts that I have had the pleasure to use," says J. Kelvin Hamilton of the University of British Columbia. "I can only praise the work highly," writes Andrew A. Kasper of Boston University; "it is complete, well written, understandable to the student (this by actual test), and well arranged."

758 pages Text $4.50 Manual $2.75

FIRST PRINCIPLES OF ATOMIC PHYSICS
By Richard F. Humphreys and Robert Beringer
Just off the press, this is a solid, well-written text for the introductory physics course for students who will take but a single course in physics, or for a course following a general survey of the physical sciences. A clear, intelligible picture of the physicist's concept of the atomic world, including only those concepts of classical physics whose understanding is required in atomic physics. Illustrated with 184 drawings prepared by the well-known scientific illustrator, Ted Miller, and provided with problems and selected reading lists.

390 pages $4.50

ANALYTIC GEOMETRY
By John J. Corliss, Irvin K. Feinstein, and Howard S. Levin
A new and comprehensive text for semester courses, covering both plane and solid analytic geometry. A typical early comment: "This is a very inclusive text, carefully written and with meticulous care for detail. I like the precision of the work using directed lines, the early introduction of the proof of equivalence of linear equation and straight line, and the use of the general definition of conic. . . . The appearance and set-up of the book are attractive." — Julia Wells Bower, Connecticut College

365 pages $3.25

ELEMENTS OF CALCULUS
By Thurman S. Peterson
A brand new text by the author of the successful Intermediate Algebra for College Students and College Algebra. First comments suggest that this is another outstanding text. Harry F. Koob, of the College of the City of New York, writes: "It provides the clearest and pedagogically soundest treatment of the subject I have ever seen. The many fields of application into which it takes the student make it about the most generally useful text or reference work in the field. Congratulations on a splendid text published with the care and attractiveness for which Harper is justly famous."

369 pages $3.50

HARPER & BROTHERS PUBLISHERS, 49 East 33d Street, New York 16, N. Y.
Personnel Placement

CHARGES and REQUIREMENTS for "PERSONNEL PLACEMENT" Ads
1. Rate: $15 per word, minimum charge $3.00 for each insertion. If desired, a "Box Number" will be supplied, so that replies can be directed to SCIENCE for immediate forwarding. Such service counts as 8 words (e.g., a 25-word ad, plus a "Box Number", equals 33 words). All ads will be set in regular uniform style, without display; the first word, only, in bold face type.

2. Advance Payment: All Personnel Placement ads, classified or display, must be accompanied by correct remittance, made payable to SCIENCE. Insertion can not be made until payment is received.

3. Closing Date: Advertisements must be received by SCIENCE, 1515 Massachusetts Ave., N.W., Washington 5, D. C., together with advance remittance, positively not later than 14 days preceding date of publication (Friday of every week).

POSITIONS WANTED


Chemist: A.B. Cum Laude (Major: chemistry; minor: Physics); Ph.D. (Major: organic chemistry; Minor: physical chemistry); three years, director, penicillin program; six years, director, department chemistry, research laboratories, large industrial company; for further information, please write Burneise Larson, Medical Bureau, Palmolive Building, Chicago.


Geologist: Ph.D. Geological Engineering minor. Broad training. Ten years university teaching, five years economic, ardeal geology field work. Administrative experience. Desires academic or industrial position. Box 151, SCIENCE.

Pharmacologist: Ph.D. Candidate, 1950. Desires commercial research or academic position. Box 153, SCIENCE.


Physiologist: M.S. Woman. Background in Organic and Biochemistry. Research and college teaching experience. Desires part-time pharmaceutical or research position in New York City. Box 150, SCIENCE.

Zoologist: M.S. 1949. Desires doctorate opportunities with teaching or research. Available Summer or Fall. Box 149, SCIENCE.

POSITIONS OPEN

Bacteriologist-Microbiologist: M.S., with experience preferred, to take charge of bacteriological control laboratory in plant of well established pharmaceutical manufacturer. Please give complete details including age, education, experience, and salary expected in first letter. Box 146, SCIENCE.

Biochemist, Physiologist, or Pharmacologist for research job with pharmaceutical manufacturer: (Ph.D.). Must be well grounded in basic medical sciences, experience in enzymology required. Salary open. Give complete details, including age, education, experience, salary expected in first letter. Box 141, SCIENCE.

Personnel Placement

POSITIONS OPEN

Graduate Assistants: Half-time; September, 1950; Stipend $1100 for ten months; Masters Degree. Department of Botany, Miami University, Oxford, Ohio.

M.S. or Equivalent in Bacteriology or Microbiology for Bacteriology Laboratory of Eastern pharmaceutical manufacturer. Must have strong organic and biochemistry background. Duties will involve determination of anti-bacterial activity in antibiotic and synthetic substances; also microbiological assays. Must possess educational, professional and personal data to Box 154, SCIENCE.

M.S.: Biochemistry, Physiology or Pharmacology to do laboratory research in the biochemical field with emphasis on endocrinological studies. No experience necessary. Submit personal history data, including age, education, salary expected, etc., in first letter. Box 145, SCIENCE.

Ph.D. or equivalent in Physical Chemistry or Biophysics for eastern pharmaceutical manufacturer. Able to assume high level responsibility and initiate original research. Job involves application of physical methods to biological studies and development of experimental methods of analysis. Experience in biological spectroscopv desirable but not essential. Salary open. Send complete educational, professional and personal data to Box 140, SCIENCE.

Positions Open:
(a) Assistant production manager, biological manufacturing company; Master's degree in pharmaceutical chemistry desired. (b) Professor of pharmacology: Ph.D. or M.D.; woman eligible; eastern medical college; $6500-$8000. (c) Biochemist thoroughly trained and experienced in his field; research organization. (d) Public health engineer; preferably B.S. from college of engineering with academic training in sanitary engineering; minimum five years experience, preferably in tropical or backwash countries. Arabia; minimum $6000; maintenance, other pre-requisites. (e) Medical writer: professional service department; pharmaceutical company; $6000. (f) Director of clinical and industrial research; small pharmaceutical company; physician experienced in research required; $10,000-$15,000; Middle West. (g) Ph.D. in chemistry to serve as chairman of department; general chemistry background required; coeducational college, New England. (h) Psychotherapist; child guidance center; Master's degree in psychology required; East. S3-2, Burneise Larson, Medical Bureau, Palmolive Building, Chicago.

Zoologist: Position of Instructor, in an Eastern College for Women, for a young woman with an M.A. Box 133, SCIENCE.

AVOID DELAY . . . . Cash in Advance payment MUST be enclosed with ALL classified ads. (See "Charges and Requirements" above.)

The Market Place

BOOKS

Your sets and files of scientific journals are needed by our library and institutional customers. Please send us lists and descriptions of periodical files you are willing to sell at high market prices. J. S. CANNER AND COMPANY, 909 Boyston Street, Boston 15, Massachusetts.

Send us your Lists of SCIENTIFIC BOOKS AND PERIODICALS which you have for sale.

Complete libraries; sets and runs; and single titles are wanted. Also please send us your want lists.

STECHERT-HAFNER, INC. 31 East 10th Street, New York 3.

WANTED TO PURCHASE:

SCIENTIFIC PERIODICALS

Sets and runs, foreign and domestic SCIENTIFIC BOOKS Entire files of scientific periodicals WALTER J. JOHNSON 125 East 23rd Street, New York 10, N. Y.
**The Market Place**

**“SCIENCE PRODUCES SALES”**

“Science is an exceptionally fine producer of inquiries and sales for *us*”—

*T Name on Request*

Your Sales Story to the more than 33,000 SCIENCE subscribers...a fertile market for your Scientific Books, Services, or Supplies.

...this same responsive audience, as evidenced by the increasing number of regular “Market Place” advertisers...PROOF that SCIENCE advertising produces results!

See “Charges and Requirements” page 25, May 5th issue or Write for Rate Card 26E today—for more sales tomorrow!

**LANGUAGES**

LINGUAPHONE MAKES LANGUAGES EASY

At home learn to speak Spanish, Portuguese, Italian, French, German, Russian, by quick easy Linguaphone Conversational Method. Save time, work, money. Send for free book today.

LINGUAPHONE INSTITUTE, 84 Radio City, New York 20.

**PROFESSIONAL SERVICES**

THE PANRAY CORP.
Research Division
340 CANAL ST., NEW YORK 13

- Microanalysis (C, H, N, S, etc.)
- Custom Organic Syntheses
- Chemical Therapeutics
- Sponsored Research

**PHOTOGRAPHY**

- MOTION PICTURE and SLIDE FILM PHOTOGRAPHY
  Professional assistance, editing, sound recording, art work, animation, titles, complete productions. Microcinema, Time-lapse studies, Photomicrography, optical-electrical engineering, Research and Development. 25 years experience, finest references.
  HENRY ROGER, Fellow, A.A.S.; R.M.S.; B.P.A.; Formerly 11 years with the Rockefeller Institute.
  c/o ROLAB Photo-Science Laboratories & Special Studios, SANDY HOOK, CONNECTICUT

**SPECIAL GLASS APPARATUS**

Our glass blowing department is available for special scientific and technical glass apparatus made to specifications and drawings. Inquiries invited. Estimates furnished.

E. MACHLETT & SON
218 East 23rd St.
New York 10, N. Y.

**FOOD RESEARCH LABORATORIES, INC.**

Founded 1922
Philip B. Hawk, Ph.D., President
Bernard L. Oser, Ph.D., Director

RESEARCH—ANALYSES—CONSULTATION
Biological, Nutritional, Toxicological Studies for the Food, Drug and Allied Industries
48-14 33rd Street, Long Island City 1, N. Y.
Write for descriptive brochure

**STAINS**

STARKMAN Biological Laboratory

- RARE
- COMMON

Price list on Request

461 Bloor St., W.
Toronto, Canada

**LABORATORY ANIMALS**

- Clean healthy well-fed animals
- Guaranteed suitable for your needs
- Reasonably priced—Dependable service

J. C. LANDIS • Hagerstown, Md.

**STAINS**

GENERAL BIOCHEMICALS, INC.

72 LABORATORY PARK
CHAGRIN FALLS, OHIO

**TRANSPARENT BOXES**

For Every Laboratory, Every Collector of Small Objects, Every Home Workshop!

Five Sizes Now Available
Write for New (June, 1949) Leaflet TR-S

R. P. CARGILLE
118 Liberty Street, New York 6, N. Y.

**GLYCOCYAMINE—Hydroxyproline, L-Methionine**

- AMINO ACIDS
- BIOCHEMICALS
- PRE-MIXED MICROBIOLOGICAL ASSAY MEDIA

H. M. CHEMICAL COMPANY, LTD.
144 North Hayworth Avenue
Los Angeles 36, California

**HOLTZMAN RAT CO.**

Specializing in the Production of
HIGH QUALITY WHITE RATS
for Laboratory Use.

R. 4, Madison 5, Wisconsin
Phone 6-5573
APPROACHES TO TUMOR CHEMOTHERAPY

This volume of 41 papers by leading authorities is a comprehensive summary of the progress so far made toward the chemotherapy of malignant tumors.

The plans for the volume were developed under the auspices of the National Cancer Institute and such other centers of cancer research as the Memorial Hospital of New York, the Sloan-Kettering Institute for Cancer Research, and the Lankenau Institute of Philadelphia.

Among the 93 contributors to the book are J. Engelbreth-Holm, M.D., University of Copenhagen Denmark, and Alexander Haddow, M.D., D.Sc., University of London and the Royal Cancer Institute of London, England. Members of the staffs of all the principal cancer research institutions in the United States contributed to this volume.

APPROACHES TO TUMOR CHEMOTHERAPY was not only a deliberately planned program but the contributions were presented and discussed leisurely at two 1-day research conferences at Gibson Island, Maryland. After these presentations and discussions of the manuscripts they were reviewed and edited by both the Chairman of the Publications Committee and the Editor of the volume, and all the numerous references to the cancer literature throughout the world were carefully checked. However rapid the much hoped-for progress in the cancer problem may be, this volume promises to be an important and trustworthy reference book.

THE RICKETTSIAL DISEASES OF MAN

This symposium volume is a comprehensive survey of the general field of Rickettsial diseases in man. Among the contributors appear the names of many of the foremost American authorities on this important and relatively new field of medicine.

The first group of papers includes discussions of the taxonomy, biology, isolation, and identification of vectors, and reservoirs of infection of the Rickettsial diseases of man. The second group of papers is devoted to discussions of serological reactions, the Weil-Felix reaction, the complement-fixation and agglutination reactions, and the preparation and standardization of Rickettsial vaccines. The final group of papers treats of insecticides, methods of their application, and mite controls.

Many of the 27 contributors to this volume during World War II were on the battle fronts in Africa, Italy, France, and Germany, protecting our troops and the local populations wherever Rickettsial diseases prevailed. Rarely, if ever, have the authors of a medical book had so wide and so successful practical experience in the very subjects on which they have written.
MICROTOME USERS!

No more sticking sections...

...or torn ribbons

The cutting of paraffin tissue sections in dry weather is often difficult or impossible due to static formation because:

1. The sections stick to the knife.
2. When lifting sections from the knife, they are often attracted and stick to metal parts of the microtome.
3. When removing ribbon sections, they tear apart causing loss of many of the serial sections.
4. Sections are more compressed and distorted.
5. Ribbons will not spread flat on the table or slide.

These vexing difficulties are caused by static electricity forming on the surface of the paraffin block due to friction of the knife on the paraffin block during the upstroke.

The Reco Neutra-Stat (Figure 1) is a convenient unit which instantly dissipates static electricity. An Alpha radiating static eliminator strip (Figure 3, A) is affixed within the slot of a rotatable head (Figs. 2 & 3, B). By contorting the flexible tube supporting the head, the static eliminator may be directed toward the paraffin block (Figs. 2 & 3, C) and knife (Figs. 2 & 3, K).

Irradiating the air with harmless Alpha particles, the static eliminator ionizes the air, discharging static charges from nearby surfaces.

It is thus possible to cut completely neutral tissue sections which will not stick to the knife. Ribbons are limp and easily handled. Compression or distortion of sections is reduced.

The Reco Neutra-Stat is placed to one side of the Microtome. It is easily moved out of the way to change paraffin blocks or to make adjustments. The life of the static eliminator is eighteen months or more. Easily attachable replacement heads are available.

No. 61-579 Reco Neutra-Stat, Model M, for microtomes .................... $15.00
**"AUTOFOCUS"** — an exclusive AO time saver in examination of a series of slides.

**LIGHTWEIGHT ALUMINUM STAND** is scientifically engineered for increased sturdiness and stability.

**"FULL FIELD" ILLUMINATION** — convenient, permanently adjusted for all objectives—is provided by the attachable light source.

**CUSTOM TENSION ADJUSTMENT**— substage and coarse focusing knobs may be set to suit your touch.

**COMPLETELY NEW, YET THOROUGHLY TESTED** — product of many years' research and development.

**SERVICE, PARTS, OR ACCESSORIES** are readily available.

---

**THE PLUS VALUE**

**IN THE NEW**

**SPENCER MEDICAL AND LABORATORY MICROSCOPE NO. N35MH**

Ask your AO Spencer Distributor to demonstrate "Autofocus" and show you the many other advantages of this famous American-made Microscope. For literature or the address of your nearest distributor, write Dept. E2.

---

**American Optical**

**INSTRUMENT DIVISION • BUFFALO 15, NEW YORK**

Makers of Precision Optical Instruments for over 100 Years