

SCIENCE

VOL. 75

FRIDAY, FEBRUARY 5, 1932

No. 1936

<i>The New Orleans Meeting of the American Association for the Advancement of Science and Associated Societies: DR. CHARLES F. ROOS.</i>	
<i>General Features</i>	141
<i>Registration</i>	142
<i>General Reception and Entertainment</i>	142
<i>The Press Service</i>	143
<i>The Science Exhibition</i>	144
<i>The Association Prize</i>	144
<i>Business Proceedings of the Council</i>	146
<i>The President-elect</i>	147
<i>The Secretaries' Conference</i>	148
<i>The General Sessions</i>	149
<i>The Scientific Sessions at New Orleans:</i>	
<i>Section A (Mathematics) and Related Organizations</i>	150
<i>Section B (Physics) and Related Organizations</i>	152
<i>Section C (Chemistry)</i>	154
<i>Section D (Astronomy)</i>	155
<i>Section E (Geology and Geography) and Related Organizations</i>	155
<i>Section F (Zoological Sciences) and Related Organizations</i>	156
<i>Section G (Botanical Sciences) and Related Organizations</i>	158
<i>Organizations Related to both Sections F and G</i>	161
<i>Section H (Anthropology)</i>	162

<i>Section I (Psychology) and Related Organizations</i>	163
<i>Section K (Social and Economic Sciences)</i>	164
<i>Section L (Historical and Philological Sciences)</i>	165
<i>Section M (Engineering)</i>	166
<i>Section N (Medical Sciences)</i>	167
<i>Section O (Agriculture) and Related Organizations</i>	168
<i>Section Q (Education)</i>	170
<i>Organizations Related to All Sections</i>	171

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKEEN CATTELL and published every Friday by

THE SCIENCE PRESS

New York City: Grand Central Terminal
Lancaster, Pa. Garrison, N. Y.
Annual Subscription, \$6.00. Single Copies, 15 Cts.

SCIENCE is the official organ of the American Association for the Advancement of Science. Information regarding membership in the Association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

THE NEW ORLEANS MEETING OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE AND ASSOCIATED SOCIETIES

Edited by Dr. CHARLES F. ROOS

PERMANENT SECRETARY

GENERAL FEATURES

THE eighty-ninth meeting of the American Association and associated societies at New Orleans, Louisiana, from December 28, 1931, to January 2, 1932, will undoubtedly go down in history as one of the major meetings of the association. Over 1,300 papers, many of which were of fundamental importance, were read. Scientists came from 46 states and several foreign countries. A number of societies and sections united in important symposia which should result in great scientific advances. A preliminary announcement of the meeting appeared in SCIENCE for November 27, 1931.

The local committee, headed by Dr. D. S. Elliott, of Tulane University, gave much attention to the meeting and as a result the details were competently worked out. The sessions of the association and asso-

ciated societies were very satisfactorily accommodated in the buildings of Tulane University, the Municipal Auditorium and the convention rooms of the various hotels which served as headquarters for the association and the associated societies.

The president for this meeting was Professor Franz Boas, of Columbia University. Professor Boas is known throughout the world for his important contributions to anthropology and is frequently called the dean of American anthropologists. Professor Boas gave much time and care to arranging an important symposium on "Growth" (see Section H reports) and expected to lead it, but a serious illness prevented him from attending the meeting. In the absence of Professor Boas, the senior vice-president, Dr. E. D. Merrill, of the New York Botanical Garden, became the presiding officer.

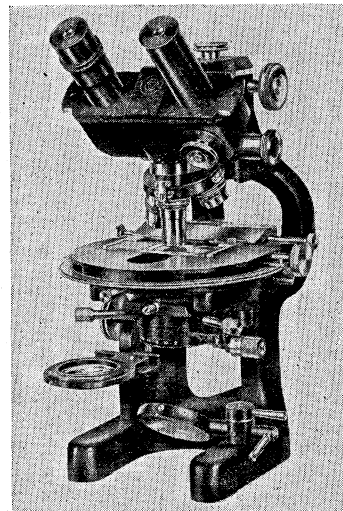
... BY SCIENTISTS

form easily, accurately, throughout long years of service, their allotted tasks in routine, study or research endeavor.

Read these short descriptions then write for the catalogs giving full details. BAUSCH & LOMB OPTICAL COMPANY, 642 St Paul St., Rochester, N. Y.

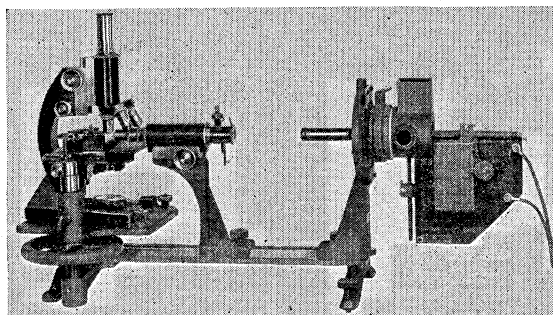
The DDE Microscope, the first of its kind to be introduced, is optically and mechanically equipped for research of the most exacting nature, yet it provides for maximum user-comfort and thorough operating efficiency through advanced design which places the microscope arm *at the front of the instrument* thus affording the operator free and convenient access to the object, stage, objectives, substage and mirror. Arm and pillars are made in one piece to give extreme rigidity. The revolving nosepiece carries parfocal objectives... those not in use swing back out of the user's way. Optional body tubes provide for all phases of microscopic study, either visual or photographic, and the completely mechanical stage provides for measurable forward, back, transverse and horizontal-rotation adjustments.

DDE



The new Bausch & Lomb Slit Ultra-microscope makes possible examination and estimation of the number of particles present in any colloidal solution.

Slit Ultra-Microscope

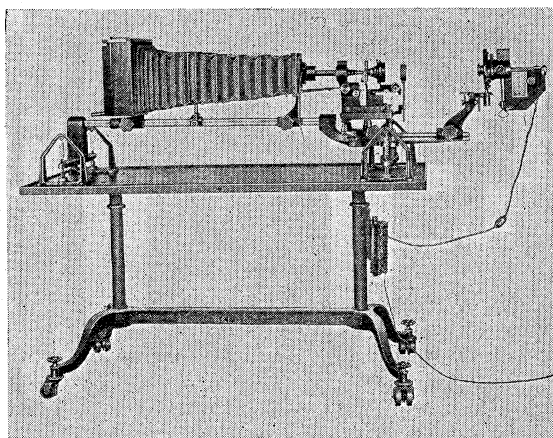


The instrument is *highly simplified*, consisting of but three units: An arc illuminant with condenser, an illuminating microscope, and a vertically adjustable microscope platform all permanently aligned on a stable, metal optical bed. The microscope platform will accommodate any biological microscope. The three-dimensional mechanical stage allows a vertical manipulation of 3 mm permitting the operator to scan through an object field 3 mm deep. Write for catalog.

Since STABILITY is one of the most important factors in photomicrography, especially when working at high magnifications, the Bausch & Lomb GBPAA Photomicrographic Outfit is designed to eliminate all vibration, that a well defined negative may be obtained. The entire outfit is mounted upon a sturdy supporting stand equipped with leveling screws and smooth rolling casters. These structural features combine with a simple positive focusing adjustment to give clear, sharp negatives at all times.

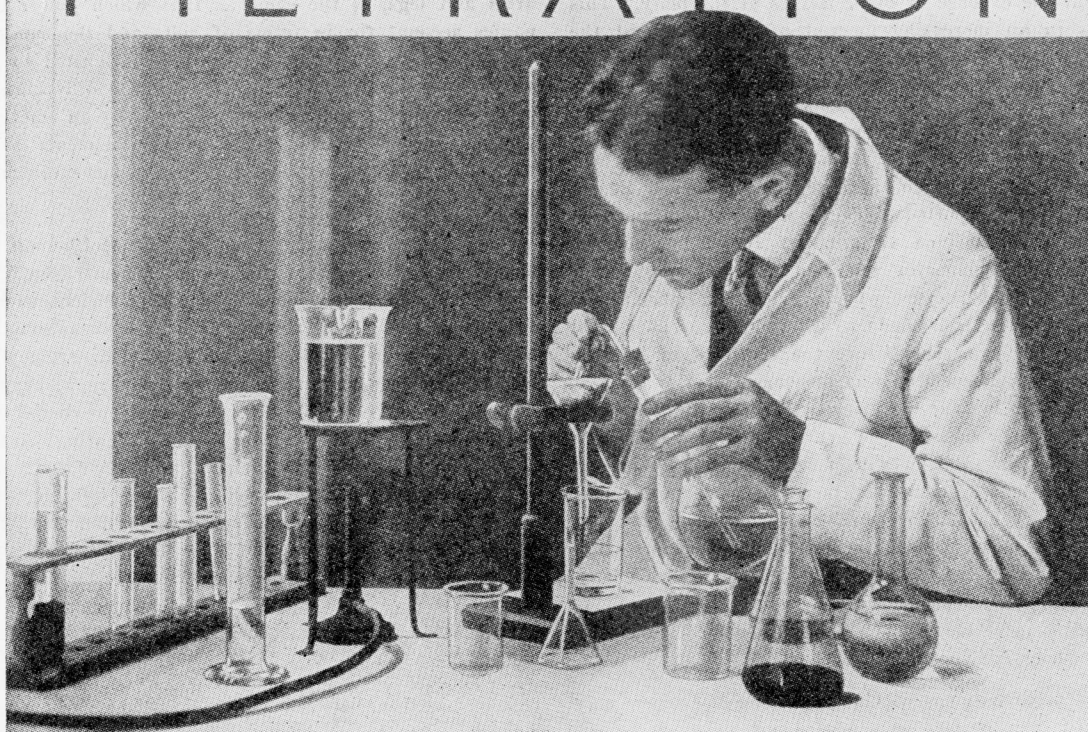
GBPAA

A strong bellows support, complete and adjustable illuminating equipment, metal back with reversible plate holder and a reducing kit for smaller standard sizes than 8 x 10 are additional features. Completely described in our booklet E-21.



AND LOMB

FILTRATION



Our registered trademarks represent the guarantee of **HIGH QUALITY** and **UNIFORMITY**.

The Chemist

The ever increasing demands of modern industry necessitate the best equipment for the chemical Laboratory.

Filter Papers

of high quality and uniformity are indispensable for best results in routine analyses and research.

For more than 50 years, we have specialized in the development and manufacture of filter papers for all laboratory and industrial uses. The experience acquired and knowledge thus gained enable us to meet the exacting needs of the American Chemist. Our continuously increasing sales prove his full satisfaction.

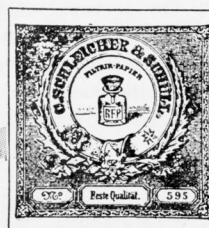
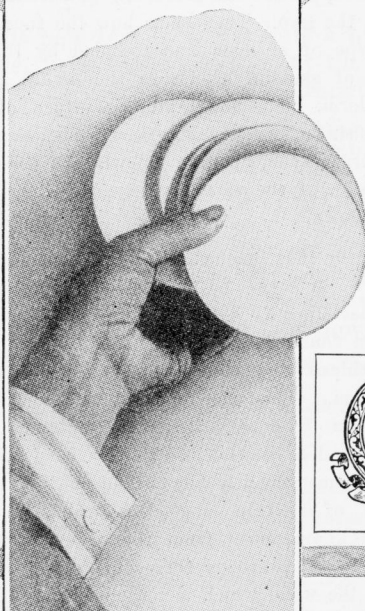
Our Handbook on Filtering Operations

tells you just what grades of paper to use for every filtering requirement. Write for your copy.

CARL SCHLEICHER & SCHÜLL CO.

167 East 33rd Street,

New York, N. Y.



TEXT-BOOKS

BOGERT'S NUTRITION and PHYSICAL FITNESS

The author's clear, non-technical language brings out impressively the facts of nutrition. Then, with the facts thoroughly grasped, the student is shown how to utilize his new knowledge in the prevention of illness and the promotion of the highest degree of physical fitness. Dr. Bogert's experience as a writer and as a worker in the fields of home economics, nutrition, physiology, chemistry and medicine have equipped her especially well to present this new textbook.

By **L. Jean Bogert, Ph.D.**, formerly Instructor in Medicine, University of Chicago. 12mo of 540 pages, illustrated. Cloth, \$3.00 net.

WILLIAMS' ANATOMY and PHYSIOLOGY

In the *Third Edition* of his text the aim of Dr. Williams—to help the teacher help the student—is more strikingly evident than ever before. By combining these closely related subjects—Anatomy and Physiology—in a single text Dr. Williams has made it possible to do full teaching justice to each when there is not time for separate courses. The book, too, furnishes an excellent basis for further Specialized Courses in Physical and Health Education.

By **Jesse Feiring Williams, M.D.**, Professor of Physical Education, Teachers College, Columbia University. 12mo of 578 pages, with 405 illustrations, 28 in colors. Cloth, \$2.75 net.

WILLIAMS, DAMBACH and SCWHENDENER'S METHODS IN PHYSICAL EDUCATION

Method enjoys today a very important place in the world of physical education—and especially in the preparation for *teaching* physical education. This text introduces the student to the whole field of methods, ranging from general considerations in educational theory to particular methods in selected activities. Each method is described and *applied*.

By **Jesse Feiring Williams, M.D.**, Columbia University; **John I. Dambach, M.A.**, University of Pittsburgh; and **Norma Schwendener, M.A.**, Columbia University. 12mo of 222 pages. Cloth, \$2.25 net.

RAND, SWEENY and VINCENT'S GROWTH of CHILD

This new text-book presents a unified discussion of today's knowledge of early childhood. The three authors represent the fields of parental education, physical growth and mental growth. Cases are cited throughout to illustrate the points.

12mo of 394 pages, illustrated. By **Winfred Rand, A.B., R.N.**, Paternal Education; **Mary E. Sweeny, M.S., M.A.**, Nutritionist, and **E. Lee Vincent, Ph.D.**, Psychologist, Merrill-Palmer School. Cloth, \$2.75 net.

BOLDUAN'S PUBLIC HEALTH AND HYGIENE

Dr. Bolduan guides the student through a connected and clear presentation of public health work. He first presents the fundamentals of the subject—how micro-organisms act on the body, how diseases are transmitted, disinfection methods. He then takes up the important diseases and lays down a scientific program for the prevention of each.

By **Charles Frederick Bolduan, M.D.**, Director, Bureau of Health Education, City of New York. 12mo of 312 pages, illustrated. Cloth, \$2.75 net.

.....SIGN AND MAIL THIS ORDER FORM TODAY.....

W. B. SAUNDERS COMPANY, W. Washington Square, Phila.

Please send me the books checked (✓) for consideration as texts (or charge to my account):

Bogert's Nutrition and Physical Fitness	\$3.00 net.	Bolduan's Public Health and Hygiene	2.75 net.
Williams' Anatomy and Physiology	2.75 net.	Rand, Sweeny and Vincent's Growth of Child	2.75 net.
Williams, Dambach and Schwendener's Methods in Physical Education	2.25 net.		

NAME ADDRESS

CONTINUED FROM FRONT COVER