# SCIENCE

Vol. LXXI	FRIDAY, MARC	ен 7, 1930 —————————	No. 1836
The American Association for the Advantage Science: The Relation of Anthropology to Indian of grant Affairs: Dr. Fay-Cooper Cole	and Immi- 249	Reports: The Teaching of Hydrobiolog American Universities: Pr NEEDHAM	OFESSOR JAMES G.
The Gray Herbarium Card Index: Profess Robinson and Lesley C. Wilcox	253	Scientific Apparatus and Laboro A Microcinematographic App of 16-MM Motion Picture ROSENBERGER	aratus for the Owner Camera: Dr. Heinz
John Robert Benton; Recent Deaths; Me Scientific Events: Agriculture in England; The Charles Lat Fellowships in Forestry; Appropriations f in Aid by the National Research Council lanta Meeting of the American Chemical	hrop Pack for Grants- ; The At- Society 257	Special Articles:  'Auximones' and the Stim Organic Matter: Dr. Norm. Occurrence of Germanium an ites: Professor Jacob Pa Hanford	AN ASHWELL CLARK.  d Arsenic in Meteor- PISH and ZAIDA M.  268
Scientific Notes and News	260	Science News	x
Discussion: The Etiology of the Disease Psittage CHARLES KRUMWIEDE, MARY MCGRATH LYN OLDENBUSCH. Bacterium granulosis choma of an Urban White Population: K. OLITSKY and Dr. JOSEPH R. TYLER. lodion Sacs Immersed in Flowing Ta Dr. P. L. K. Gross and Dr. Louis S History of the Discovery of Periodic R Heart-beat in Insects: Dr. John H. Gero Chemical Constitution of Pectinatella: I ROW Morse	and Caro- s and Tra- Dr. Petter Gas in Col- p Water: . Kassel. eversal of Uld. The	SCIENCE: A Weekly Journal ment of Science, edited by J. M.	E PRESS Central Terminal Garrison, N. Y. Single Copies, 15 Cts. of the American Associa- ence. Information regard- tion may be secured from

### THE RELATION OF ANTHROPOLOGY TO INDIAN AND IMMIGRANT AFFAIRS<sup>1</sup>

By Dr. FAY-COOPER COLE

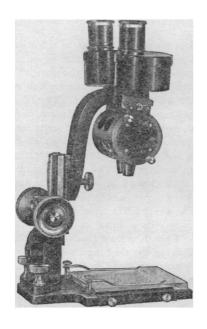
CHAIRMAN, DIVISION OF ANTHROPOLOGY AND PSYCHOLOGY NATIONAL RESEARCH COUNCIL

FORTY-THREE years ago the Bureau of American Ethnology was formed to collect all the data possible concerning the surviving Indians in various parts of our country. Since that time, departments of anthropology in various universities have been turning out highly trained men who have devoted years to intensive study of the American Indian. Studies have been made of his physical type, his susceptibility to disease and the effects of race crossing, as well as of the development of his diverse cultures from earliest times to the present. The Bureau of American Ethnology alone has issued over 180 monographs and bulletins dealing with the American Indian and his culture, while the publications of other institutions would easily double that number.

1 Address of the retiring vice-president and chairman of Section H—Anthropology, American Association for the Advancement of Science, Des Moines, December 30, 1929.

With such a mine of information at the disposal of those who have to deal with our aborigines, we should have the most enlightened policy of any nation in the world. What are the facts? In searching the records of Congress which deal with Indian affairs, there is little evidence that that body realizes it has a great research organization at its disposal. scrutiny of the boards of Indian commissioners in recent years reveals the names of few men who are recognized as authorities on Indian life and custom, while the administration of the Indian Office has often been entrusted to men ignorant of, or indifferent to, Indian customs. Occasionally men of highest ideals have been placed in positions of authority, but they have found themselves overwhelmed with advice from those having special interests in the Indian.

One group urges that we break down the old religion and customs as rapidly as possible; and to



Bausch & Lomb
Optical Company,
642 St. Paul St., Rochester, N. Y.

Makers of Orthogon Eyeglass Lenses for Better Vision. :: ::

## Stereoscopic Microscopy

THE possible uses of a microscope for viewing an extremely wide field stereoscopically are almost unlimited, both in science and in industry. The B&L AKW-5 is such a microscope. Besides these characteristics, it has long working distance and a high eyepoint. The image is always seen erect (i. e., not inverted or reversed).

An exclusive and highly valuable feature of the AKW-5 is the B & L patented Drum Nosepiece. This contains three pairs of matched objectives in parfocal position so that changes in magnification can be made instantaneously by simply turning the nosepiece. The AKW-5 can be adapted to many different types of stands, including those of our Greenough series.

Write for circular D-15 which describes this instrument.



# BAUSCH & LOMB

National Research Council

## National Research Fellowships in the Biological Sciences

Post-doctorate fellowships in the biological sciences (zoology, botany, anthropology, psychology, agriculture and forestry) will be further assigned by the Board of National Research Fellowships in the Biological Sciences for the academic year 1930-31 at a second meeting to be held about May 1st and 2nd. Applications are requested by March 20th; but must be filed by April 1st in order to insure consideration at this meeting. Appointments may be made prior to the conferring of the doctor's degree, to be effective upon the receipt of the degree within six months. Forms of application and statement of conditions will be furnished on application by letter or by wire to

The Secretary, Board of National Research Fellowships in the Biological Sciences, National Research Council, Washington, D. C.

#### Allegany School of Natural History

In Allegany State Park, Quaker Bridge, N. Y. Fourth Season—July 5 to August 23, 1930 Registration limited to fifty

Field studies in Botany, Zoology, Geology, Birds Natural conditions favorable in richness and variety, suitable laboratories and equipment, comfortable living in a stimulating climate, guidance from experienced teachers and investigators.

Sponsored by the Buffalo Society of Natural Sciences, the New York State Museum, and the University of Buffalo (with college credit). For circulars or registration, address until June 15:

DR. ROBERT E. COKER, Director Chapel Hill, N. C.

#### BIOLOGICAL and NATURAL



#### HISTORY MATERIAL

Zoological **Embryological Botanical** 

Groups Slides Life Histories

Drosophila cultures

Lamprey larvae (Ammocoetes) Prices on demand

Catalogs on request: Address

Geo. M. Gray, Curator Supply Department

#### MARINE BIOLOGICAL LABORATORY

Woods Hole, Mass., U. S. A.

#### JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

The School of Medicine is an Integral Part of the University and is in the Closest Affiliation with the Johns Hopkins Hospital.

#### ADMISSION

Candidates for admission must be graduates of approved colleges or scientific schools with two years' instruction, including liberatory work, in chemistry, and one year each in physics and budgey, together with evidence of a reading knowledge of French and German.

German.
Each class is limited to a maximum of 75 students, men and women being admitted on the same terms. Applications may be sent any time during the academic year but not later than June 15th.
If vacancies occur, students from other institutions desiring advanced standing may be admitted to the second or third year provided they fulfill the requirements and present exceptional qualifications.

#### INSTRUCTION

The academic year begins the Tuesday nearest October 1, and closes the second Tuesday in June. The course of instruction occupies four years and especial emphasis is laid upon practical work in the laboratories, in the wards of the Hospital and in the dispensery. dispensary.

TUITION

The charge for tuition for 1930-31 will be \$600 per annum, payable in two installments. There are no extra fees except for certain expensive supplies, and laboratory breakage.

Inquiries should be addressed to the

Executive Secretary of the School of Medicine, Johns Hopkins University, Washington and Monument Sts., Baltimore, Md.

Graduates in Medicine who satisfy the requirements of the heads of the departments in which they desire to work are accepted as students for a period not less than three quarters. Tuition charge is \$50

Second Edition

## BIOLOGICAL STAINS

Published October, 1929

This booklet, already quite well known among bacteriologists, has been completely revised. It has 224 pages (about 75 more than first edition), discusses about 20 dyes not covered in the old edition, and also gives in detail about 75 of the most important staining formulae and procedures calling for stains. This latter feature makes it a useful laboratory handbook.

The book is written by the Chairman of the Commission on Standardization of Biological Stains, and is published by the Commission. Price, \$3.00, postage additional; or \$2.75 postpaid if cash accompanies the order.

### STAIN TECHNOLOGY

A quarterly journal devoted to staining and microscopic technic.

Subscription price, \$1.50 a year

Orders for the book and subscriptions to the journal to be sent to

#### H. J. CONN, Chairman,

Lock Box 299, Geneva, N. Y.

# Industrial Chemistry

## An Introduction -

An Elementary Treatise for the Student and General Reader

BY EMIL RAYMOND RIEGEL, PH.D.

Professor of Industrial and Physical Chemistry, University of Buffalo Admirably suited to the needs of a colloge course in industrial chemistry

649 pages

#### Illustrated

Price \$9.00

HE ever-growing application of Science to industrial ends brings with it a need by workers in any one branch for accurate but easily understood information concerning other branches, both with regard to the technical processes involved, and to the economic position these branches may tend to occupy in relation to their own.

Dr. Riegel's book concerns itself strictly with what is thought to be the best method of making industrial chemistry understandable to both the student and the general reader. It is balanced, all the chapters being on the same level of scholarship, detail of treatment, theoretical and technical information. The economic position of each industry is clearly shown by statistical figures of recent date.

This book is sufficiently thorough to be valuable to the technical man, and sufficiently simple to be appreciated by the layman.

### A Collection of Chemical Lecture **Experiments**

H. F. DAVISON

Assistant Professor of Chemistry, Brown University, Providence, R. I.

#### 139 Pages Price \$2.50

"A COLLECTION of 69 elementary lecture-table experiments by an exceptionally able demonstrator. Not intended to be exhaustive; the experiments included are new, or are modifications of old ones, and attention has been given to simplification of apparatus and economy of time in demonstratring. In the author's opinion, 'any experiment which takes over five minutes will be of doubtful value.' Set-ups are shown, where necessary, and an introductory chapter on 'The art of lecture table demonstrating' offers valuable suggestions to teachers.'' (Book Review Digest.)

#### Volumetric Iodate Methods

GEORGE S. JAMIESON

#### 96 Pages Price \$2.50

THIS work brings together the various procedures and applications of the volumetric iodate methods employed in routine analyses and research work.

DETAILED descriptions are given of the determination of antimony, arsenic, copper, mercury, molybdenum, tin, zinc, hydrazine, hydrogen, peroxide, sodium thiosulphate, various peroxides, tetrathio-nates, sulphurous acid, sulphites, dichromatics, etc. The sim-plicity and convenience of the method are well known, and as chemist to the Bureau of Chemistry, U. S. Dept. of Agriculture, the author is able to write with the advantage of great experience. [A bibliography is included.]

#### Advanced Laboratory Manual of Organic Chemistry

MICHAEL HEIDELBERGER, B.S., A.M., PH.D.

Associate in Chemistry, Rockefeller Institute

#### 103 Pages Price \$2.50

THIS manual is designed to simplify the task of the advanced chemistry student. It provides a brief advanced course in manipulative organic chemistry; embodying experiments scattered as widely as possible over important types of substances and reactions. The aim has been to select experiments of greater difficulty than those ordinarily included in elementary manuals, but also to avoid those problems, so difficult or involved as to discourage rather than interest the student.

## THE CHEMICAL CATALOG COMPANY INC.

417 Fourth Avenue

New York, U. S. A.