SCIENCE

NEW SERIES Vol. LXIV, No. 1647

FRIDAY, JULY 23, 1926

ANNUAL SUBSCRIPTION, \$6.00 SINGLE COPIES, 15 CTS.

Conductivity Outfit



For determining the ash content of sugar, as developed by Dr. F. W. Zerban, of the New York Sugar Trade Laboratory.

Based on the principle of the definite relationship between the ash content of the sugar and the conductivity reading of the solution. (See tables by Lange for Beet Sugars; Zeitsch. des Ver. der Deutsch. Zuckerind., Vol. 60, page 368, 1910).

With this outfit the ash content of the sugar solution can be readily obtained from the conductivity readings by reference to tables supplied.

Additional data, with prices for other parts, on request.

EIMER & AMEND

Established 1851, Incorporated 1897 Headquarters for LABORATORY APPARATUS and CHEMICAL REAGENTS NEW YORK, N. Y.

Third Ave., 18th to 19th St.



Baltimore, Md., U. S. A.

working distance 214"-\$2.50 extra. Write for circular. ANTHONY FIALA, 25 Warren St., New York

418 Light St.

ii

SCIENCE

Vol. LXIV JULY 23, 1926 No. 1647 CONTENTS

The Institute of Chemistry: The Address of the Retiring President: M. L.	
CROSSLEY	73
The Training of Men for the Profession of Chem-	
istry: PROFESSOR TREAT B. JOHNSON	74
Science for Humanity's Sake: Dr. WILLIAM BLUM	77
John Howland: E. A. P.	80
Scientific Events:	
The Australasian Association; Field Work of the	
Victoria Memorial Museum; World Longitude De-	
termination; A School of Microscopy; Programs	
in Engineering and Social Science at the Phila-	
delphia Meeting of the American Association	83
Scientific Notes and News	87
University and Educational Notes	89
Discussion:	00
The Reversal of the Hydrogen Series in the Ex-	
treme Ultra-violet: Professor Theodore Lyman.	
The Cleaving of Ciliates by Amoeba: DR. C. DALE	
BEERS. Danger to the Crater Lake National Park:	
DR. WILLARD G. VAN NAME. The Microtomist's	
Vademecum: DR. E. V. COWDRY	89
	09
Quotations:	01
The Paris Bureau of Scientific Information	91
Scientific Books:	
Grondal's The Music of the Spheres: PROFESSOR	
FRANK SCHLESINGER. Thienemann's Die Binnen-	
gewässer Mitteleuropas: PROFESSOR CHANCEY	
JUDAY	92
Scientific Apparatus and Laboratory Methods:	
The Ring Method for Surface Tension Measure-	~~
ment: DR. J. M. JOHLIN	93
Special Articles:	
Buttermillà as a Fertilizer for Blueberries: DR.	
FREDERICK V. COVILLE.	94
Science News	x
-	

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

THE SCIENCE PRESS

Lancaster, Pa. Garrison, N. Y. New York City: Grand Central Terminal,

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.

Entered as second-class matter July 18, 1923, at the Post Office at Lancaster, Pa., under the Act of March 8, 1879.

THE INSTITUTE OF CHEMISTRY ADDRESS OF THE RETIRING PRESIDENT¹

My presidential address will be a summary of the work of the outgoing administration and an outline of the program for the future.

The work of my administration has been largely that of perfecting the machinery of organization and of winning recognition for the institute. The indiscretions to be expected from a youthful organization had given an unfavorable impression of the purpose of the institute. The institute has reached adolescence and has demonstrated its sincerity of purpose and high aims.

A code of ethics embodying the principles of professional conduct to govern the profession of chemistry has been formulated and adopted. This code of ethics merits public esteem and justifies confidence in the integrity of the chemist. The institute has established a standard of proficiency of such excellence as to insure competent and efficient service on the part of its members. To safeguard the profession of chemistry, the institute proposes to admit to fellowship only those of proved education, experience, competency and character. The educational requirement consists of a minimum of six years of collegiate and post-graduate training in chemistry or chemical engineering and at least two years of such training must be of an advanced nature. In addition to the six years' training, candidates for fellowship in the institute must have had a minimum of five years' experience and responsibility in the practice of the profession, and must, in addition, meet the requirements imposed by the council for character and American citizenship.

In order to provide means for the improvement of the economic status of the profession of chemistry, the institute has established a register of its membership in which there is a complete record of the training, experience and fitness for service of each individual member. It is not the purpose of the institute to act as an employment agency, but rather as an intelligence office, serving on the one hand the chemist and on the other the public seeking the service of the chemist.

The keynote of the institute is "service," and all its energies are focused on seeing that only those men

¹Given before the American Institute of Chemists, New York, May 8, 1926.





WESTON

Model 1 ohmmeter for scientific and commercial work



THIS instrument has marked advantages because it is direct reading and is operated by ordinary dry cells—no other apparatus being needed. ¶Both Industrial and Scientific Workers use it for making quick resistance measurements. Its accuracy is guaranteed one-quarter of one per cent. ¶The long time dependable result this model gives is such that it is often used as a secondary standard in periodically checking other instruments. ¶For complete information request our Bulletin 501.

Weston Electrical Instrument Corporation 52 Weston Avenue, Newark, N. J.





Laboratory Furniture For the Teaching of Science

Superintendents and Science Instructors generally are familiar with the reputation of Kewaunee Laboratory Furniture for all science purposes. This Company is the largest manufacturer of science laboratory furniture in North America. Our factories are specially equipped to handle this kind of work. We have equipped several thousand universities, colleges, high schools, normal schools, vocational schools, hospitals, medical colleges, private and industrial laboratories.

We co-operate with the School Executives to help make the school a credit to the community.

Blue prints, showing location of floor connections, will be sent on request. We will make drawings without charge, upon receipt of specifications.

In many cases, however, you will find the building of special equipment unnecessary. Our standardized line contains over 500 designs, some of which may satisfactorily serve your needs—reducing the investment and avoiding delays.

The experience gained in the manufacture and installation of Laboratory Equipment for several thousand of the leading schools of North America is accumulated here in this organization. Let us help solve your problems.

The latest edition of the Kewaunee Book is now ready for distribution. The book will be sent without charge, prepaid, to any educator who replies, giving his position, and using the stationery of the institution.

LABORATORY FURNITURE SEAFERTS

C. G. CAMPBELL, Treas. and Gen. Mgr. 115 Lincoln St. New York Office Kewaunee, Wis. 70 Fifth Avenue Offices in Principal Cities

Chemical Desk No. 850

A good practical design at a moderate price that embodies all the essential features of the more elaborate desks.





For Private Laboratory

Produced in response to an insistent demand for an absolutely private work-table. Roll top cover completely encloses.