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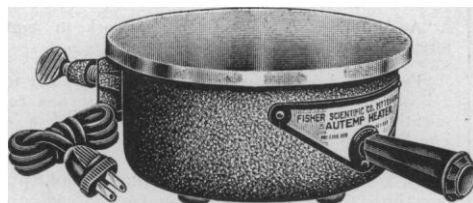
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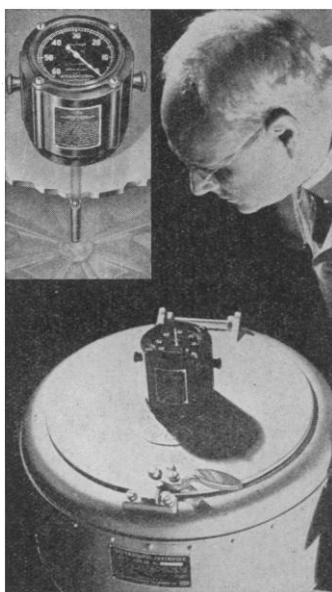
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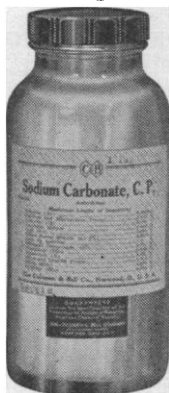
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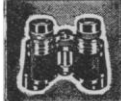
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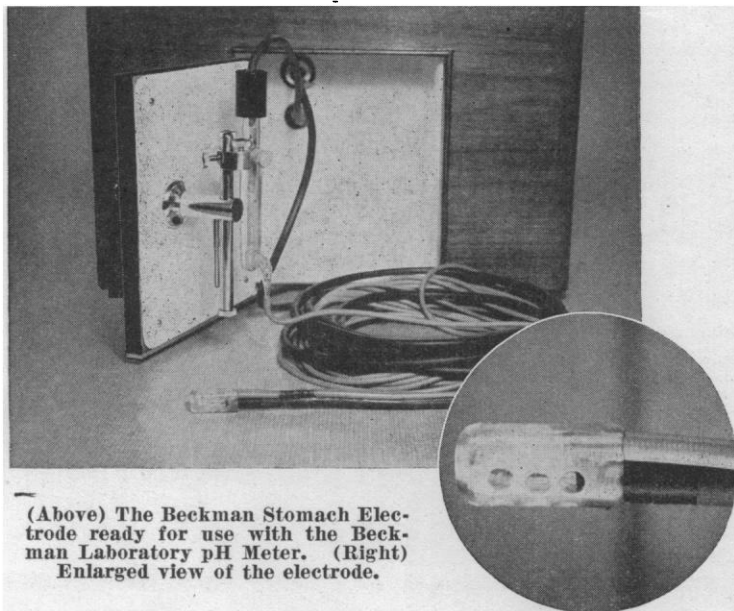
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BECKMAN pH NEWS

FROM THE WORLD'S LARGEST MANUFACTURER OF GLASS ELECTRODE pH EQUIPMENT



(Above) The Beckman Stomach Electrode ready for use with the Beckman Laboratory pH Meter. (Right) Enlarged view of the electrode.

NEW BECKMAN STOMACH ELECTRODE PERMITS pH MEASUREMENTS IN SITU

Can be Swallowed for Gastric pH Studies

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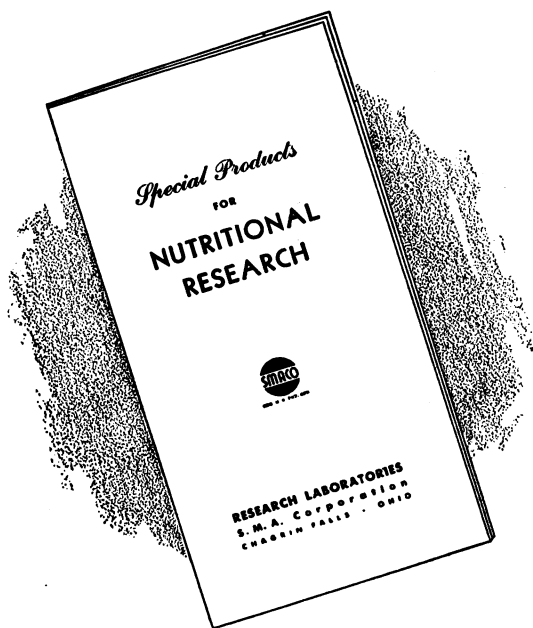
The aspiration sample method heretofore used has presented numerous difficulties in that gastric fluids vary in their acidity, being more acid in the antral region . . . and the aspiration of test material disturbs the intestinal content, making a representative sample of any one region difficult to obtain.

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SCIENCE

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FRIDAY, MAY 23, 1941

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THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

PRELIMINARY ANNOUNCEMENT OF THE DURHAM, N. H., MEETING

By Dr. F. R. MOULTON

PERMANENT SECRETARY

FROM June 23 to June 28, inclusive, the association will hold at Durham, N. H., the first of its two meetings this summer. The Durham meeting will be held in connection with the celebration of the seventy-fifth anniversary of the founding of the University of New Hampshire. The Chicago meeting, from September 22 to September 27, will be held in connection with the celebration of the fiftieth anniversary of the founding of the University of Chicago. These meetings suggest the question whether the association might not advantageously hold its summer meetings often in connection with special celebrations of scientific and cultural institutions and organizations.

Only once before since its founding ninety-three

years ago has the association met in New Hampshire. On the invitation of Dartmouth College, a summer meeting was held at Hanover, N. H., from June 29 to July 3, 1908. At that time the membership of the association was about 5,500; it now exceeds 21,000. Only 25 scientific papers were presented at the Hanover meeting, 16 in physics and nine in geology, in addition to two public addresses, one on "The Spoilation of Niagara," by Professor J. W. Spencer, and the other on "The American Bison," by Mr. T. S. Palmer. At the coming meeting at least 35 sessions will be held for the presentation of scientific papers in addition to a considerable number of field trips by the geologists, the botanical societies, the meteorologists and the

TABLE 1

Purpose of experiment	Specimen identification	Time of extraction	Bio-assay* γ /cc of extract
Reproducibility of results	P.U. 1A	6 hrs.	63
	P.U. 1B	6 "	63
Time of complete extraction	P.U. 2	24 "	42
	P.U. 2A	4 "	42
	P.U. 2B	8 "	42
	P.U. 2C	16 "	42
	P.U. 3AI.	4 "	42
	P.U. 3AII.	2 "	28
	P.U. 3AV.	1 "	28

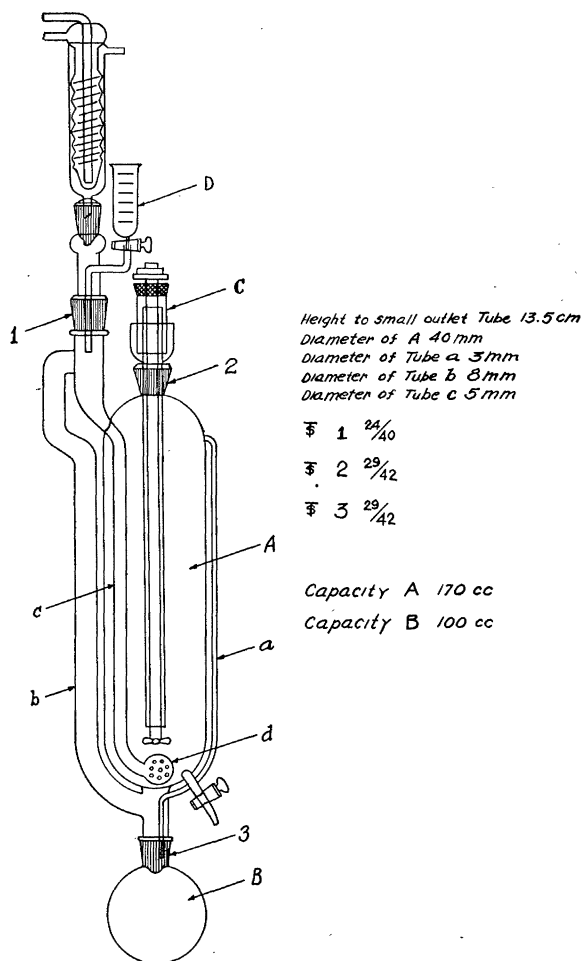
* Rat Unit = $1\frac{1}{2}$ γ estrone

FIG. 1

Results indicate both reproducibility and relatively great efficiency.

This apparatus has given complete extraction of identical quantities requiring less time than with the use of other extractors.

EMANUEL MEYROWITZ
JACOB S. BEILLY

BETH-EL HOSPITAL,
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OBTAINING BLOOD FROM MICE

WHILE testing the sera of individual mice for antibodies several years ago, the writer obtained blood more easily and in larger quantities by severing the axillary artery than by cardiac puncture. Since a number of papers have appeared recently in which the investigators reported using cardiac puncture in bleeding mice, the method employed by the writer is hereby described with the hope that it will be useful to others.

The mouse is anesthetized, placed on its back on a dissecting board and its extended legs fastened with spring clips. The hair is thoroughly moistened and, with scissors, a mid-line incision is made through the skin from the abdomen to the neck. The skin of the right side is grasped with small hemostatic forceps and reflected by pulling until the muscles of the right foreleg are exposed. A pocket will be formed between the skin and body wall in the axilla. When the mouse shows signs of regaining consciousness, the axillary artery is severed by cutting deeply with sterile scissors through the center of the pectoral muscle into the axilla. A pool of blood immediately forms in the pocket and can be removed easily with a sterile pipette. A greater yield is obtained if the mouse almost recovers from the anesthesia before the artery is severed than if it is cut during deep anesthesia. The bleeding is so profuse that the animal rapidly loses consciousness. This method also has been used successfully on rats and may be useful in bleeding small birds.

L. R. KUHN

UNIVERSITY OF GEORGIA

BOOKS RECEIVED

- BEAUCHAMP, WILBUR L., JOHN C. MAYFIELD and JOE Y. WEST. *A Study-book for Science Problems 3*. Pp. 316. Scott, Foresman. \$0.76.
- DAVIS, HAROLD T. *The Theory of Econometrics*. Pp. xiv + 482. Principia Press.
- ELLINGER, FRIEDRICH. *The Biologic Fundamentals of Radiation Therapy; a Textbook*. Translated from the German by REUBEN GROSS. Pp. xvi + 360. 79 figures. Nordemann. \$5.00.
- HAWLEY, FLORENCE. *Tree-ring Analysis and Dating in the Mississippi Drainage*. Pp. xi + 110. 8 plates. University of Chicago Press. \$1.50.
- LÜCK, JAMES M., Editor. *Annual Review of Physiology, Vol. III, 1941*. Pp. 784. American Physiological Society and Annual Reviews. \$5.00.
- Revista; Serie A, *Matematicas y Fisica Teorica*. Vol. 1, Nos. 1 and 2. Pp. 334. Universidad Nacional de Tucuman, Argentina.
- SHULL, A. FRANKLIN. *Principles of Animal Biology*. Fifth edition, revised. Pp. xiv + 417. 298 figures. McGraw-Hill. \$3.50.
- WINTNER, AUREL. *The Analytical Foundations of Celestial Mechanics*. Pp. xii + 448. Princeton University Press. \$6.00.
- Woods Hole Oceanographic Institution. *Collected Reprints, 1940*. Illustrated. The Institution.

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Third Edition; 315 pages; 102 illustrations; 6 by 9; \$3.00

CHEMISTRY OF PULP AND PAPER MAKING

By **EDWIN SUTERMEISTER**, *Research Chemist, S. D. Warren Company.*

The aim of this book is to present in as simple language as possible the chemical aspects of the pulp and paper industry which will enable the reader to understand the methods of manufacture. Thirteen specialists have contributed to the revision.

Third Edition; 529 pages; 98 illustrations; 6 by 9; \$6.50

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