



**NOW! Convenient...**

## **COLEMAN** *Certified* **BUFFER** **POWDERS**

Fresh, accurate buffer solution is yours in seconds—just sprinkle a packet of quick-dissolving Coleman Certified Buffer Powder into 100 ml distilled water for a convenient volume of buffer. Each Coleman buffer is certified accurate within 0.01 pH of its stated value . . . this lets you utilize all the accuracy inherent in modern pH instrumentation. The buffer formulations are hermetically-sealed to keep them fresh until they are needed. Only fresh buffer solutions are dependably exact in pH.

Coleman Certified Buffer Powders are available in pH values of 2.0, 4.0, 7.0 and 10.0; they are supplied in packages of a single value or a package of assorted values.

**Write for free sample of assorted Coleman Certified Buffer Powders and Bulletin**  
Dept. SB-280



**COLEMAN INSTRUMENTS, INC.**  
MAYWOOD, ILLINOIS

Corliss and P. C. C. Garnham was approved. These included support of the proposal made by Weiser that international depositories be established for type specimens of protozoa, commendation for the efforts of the committee on taxonomy and taxonomic problems, and the suggestion that a second international conference on protozoology be held in 4 years, possibly in London.

In addition to the scientific sessions, there was a sight-seeing trip through Prague and an excursion to the world-famous spas at Karlsbad and Mariánské Lázně.

The transactions of the conference will be published by the Czechoslovak Academy of Sciences in the summer of 1962.

This conference was a milestone in the history of protozoology. Its greatest value lay in the opportunity that it provided for its participants to meet, for the first time, the people whom they had known merely as names on research reports. Each member of the conference was able to meet and discuss mutual problems with as many others as he wished. As a result, the tempo and quality of protozoological research and of interchange of information will increase, and all protozoologists will benefit, whether or not they attended the conference.

WILLIAM TRAGER

*Rockefeller Institute, New York*

NORMAN D. LEVINE

*College of Veterinary Medicine,  
University of Illinois, Urbana*

### **Forthcoming Events**

#### **February**

1-2. Industrial Management Engineering Conf., Chicago, Ill. (F. A. Judd, Technology Center, Illinois Inst. of Technology, Chicago 18)

1-3. Congress on Hospital Administration, 5th annual, Chicago, Ill. (American College of Hospital Administrators, 840 N. Lake Shore Dr., Chicago)

4-7. American Inst. of Chemical Engineers, natl., Los Angeles, Calif. (American Petroleum Inst., 1271 Avenue of the Americas, New York 20)

5. World Meteorological Organization, Working Group on Networks of the Commission for Synoptic Meteorology, Geneva, Switzerland. (Secretary, WMO, Geneva)

5-6. Gustav Stern Symp. on Perspectives in Virology—III, New York, N.Y. (M. Pollard, Lobund Inst., Univ. of Notre Dame, Notre Dame, Ind.)

5-7. American Acad. of Allergy, annual, Denver, Colo. (Scientific Liaison Office, Natl. Research Council, Sussex Dr., Ottawa, Ont., Canada)

*Outstanding RONALD books . . .*

## **Control Mechanisms in Cellular Processes**

DAVID M. BONNER, *University of California,  
San Diego at La Jolla*

**New!** The seventh annual symposium publication of the Society of General Physiologists presents nine studies on the regulatory mechanisms by which chemical processes are organized and integrated in living cells and organisms. The approach is through concrete consideration of the integration of separate biochemical events and the coordinate regulation of cellular biochemistry. Discussions include: DNA and RNA and their roles in enzyme formation; estrogenic steroids in hormonal control; control by light and time; etc. 10 Contributors. 1961. 248 pp. \$8.50

### **—Other S. G. P. Symposia**

**Macromolecular Complexes**, M. V. Edds, Jr., Ed.; 14 Contributors. 1961. \$8.50

**Subcellular Particles**, Teru Hayashi, Ed.; 20 Contributors. 1959. \$8.50

**Physiological Triggers and Discontinuous Rate Processes**, Theodore H. Bullock, Ed.; 16 Contributors. 1958. \$7.50

**Electrolytes in Biological Systems**, Abraham M. Shanes, Ed.; 11 Contributors. 1955. \$8.50

## **Synthesis of Molecular and Cellular Structure**

DOROTHEA RUDNICK, *Albertus Magnus  
College and Yale University*

**The Nineteenth Symposium** of the Society for the Study of Development and Growth. Authoritative papers on the chemical and cellular aspects of organic differentiation, from molecules to tissues and organs. 9 Contributors. 1961. 252 pp., illus. \$9

### **—The 16th, 17th, and 18th Symposia—**

**Developmental Cytology**, Dorothea Rudnick, Ed.; 10 Contributors. 1959. \$8

**Cell, Organism, and Milieu**, Dorothea Rudnick, Ed.; 12 Contributors. 1959. \$8

**Developing Cell Systems and Their Control**, Dorothea Rudnick, Ed.; 10 Contributors. 1960. \$8

## **Makers of North American Botany**

HARRY BAKER HUMPHREY,  
*U. S. Department of Agriculture*

**New!** Brief biographies of 122 North American botanists. Book highlights their contributions and cites their most important published works; provides a kaleidoscopic view of the development of botany in North America from its European origins in Colonial times to the present. *Chronica Botanica: An International Biological and Agricultural Series*, No. 21. 1961. 265 pp. \$6

## **Principles of Plant Pathology**

ELVIN C. STAKMAN, *Emeritus, University of Minnesota;*  
and J. GEORGE HARRAR, *The Rockefeller Foundation*

**Authoritative book** treats the broad interrelationships between plants as economic resources and the diseases which limit their productivity. Provides a comprehensive examination of general principles, relating them to the international distribution of plant pathogens, the etiology of major plant diseases, fundamental considerations of international plant protection and disease control. 1957. 581 pp., illus. \$9

**Publishers of the Chronica Botanica Books**

**THE RONALD PRESS COMPANY**  
15 East 26th St., New York 10

5-9. Electroforming Applications. symp., American Soc. for Testing and Materials, Dallas, Tex. (ASTM, 1916 Race St., Philadelphia 3, Pa.)

6-7. Vertebrate Pest Control Conf., Sacramento, Calif. (M. W. Cummings, Univ. of California, Davis)

6-8. Society of the Plastics Industry, Reinforced Plastics Div., Chicago, Ill. (Scientific Liaison Office, Natl. Research Council, Sussex Drive, Ottawa, Ontario, Canada)

7-9. Military Electronics, Inst. of Radio Engineers, Los Angeles, Calif. (M. E. Brady, Space Technology Laboratories, P.O. Box 95001, Los Angeles)

7-10. American College of Radiology, annual, New York, N.Y. (ACR, 20 N. Wacker Dr., Chicago 6, Ill.)

8. Problems in Food Processing, Assoc. of Vitamin Chemists, Chicago, Ill. (H. S. Perdue, Abbott Laboratories, North Chicago, Ill.)

8. Tissue Homotransplantation, 5th biennial conf., New York, N.Y. (W. Dameshek, New England Center Hospital, 171 Harrison Ave., Boston 11, Mass.)

9-11. National Open Hearth and Blast Furnace Conf., American Inst. of Mining, Metallurgical, and Petroleum Engineers, Detroit, Mich. (E. O. Kirkendall, AIME, 29 W. 39 St., New York 17)

12-16. Management of Science Information Centers, Inst. on Information Storage and Retrieval, 4th, Washington, D.C. (L. H. Hattery, Center for Technology and Administration, American Univ., 1901 F St., NW, Washington 6)

12-23. Latin American Seminar on Irrigation, 2nd, Panama City, Panama. (J. Melendez, Jefe, Depto. de Ingenieria, Ministerio de Agricultura, Comercio e Industrias, Panama City)

13-14. Sanitary Engineering, 4th conf., Urbana, Ill. (B. B. Ewing, Dept. of Sanitary Engineering, Univ. of Illinois, Urbana)

14-16. Biophysical Soc., 6th annual, Washington, D.C. (D. Cowie, Dept. of Terrestrial Magnetism, Carnegie Institution of Washington, 5241 Broad Branch Rd., NW, Washington 15)

14-16. Solid State Circuits, intern. conf., Philadelphia, Pa. (L. Winner, 152 W. 42 St., New York 36)

14-17. National Soc. of College Teachers of Education, Chicago, Ill. (E. J. Clark, Indiana State College, Terre Haute)

16-18. Medical Congr. in Honor of the Centennial of Bretonneau, Tours, France. (Directeur, École Nationale de Médecine, Tours)

17-24. Pan American Medical Women's Alliance, 8th congr., Manizales, Colombia. (C. Carthers, 1661 Riverside Ave., Suite B, Jacksonville, Fla.)

18-22. American Inst. of Mining, Metallurgical, and Petroleum Engineers, annual, New York, N.Y. (E. O. Kirkendall, AIME, 29 W. 39 St., New York 17)

18-22. Technical Assoc. of the Pulp and Paper Industry, annual, New York, N.Y. (TAPPI, 360 Lexington Ave., New York 17)

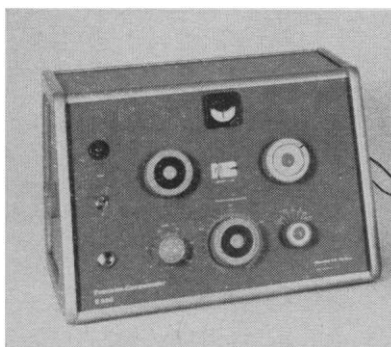
19-21. American Educational Research Assoc., Atlantic City, N.J. (G. T. Buswell, 1201 16 St., NW, Washington 6)

(See 22 December issue for comprehensive list)

12 JANUARY 1962

# BLOOD pH

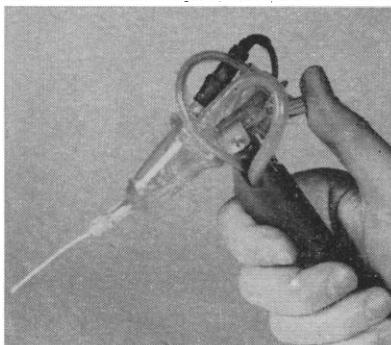
The new Metrohm-Brinkmann equipment for blood pH measurements represents an improved version of the components first introduced in 1959 and since installed in hundreds of hospitals and laboratories throughout the U.S. It fulfills all of the requirements for satisfactory blood pH determinations — an exceptionally accurate measuring instrument, capillary electrodes for samples as small as a single drop, anaerobic introduction and an accurate constant temperature circulator.



## NEW E 388

Compensating potentiometric pH meter

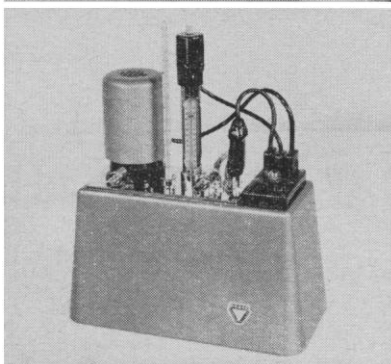
- Reads directly to 0.001 pH
- All values read in a single window



## NEW EA 521

Micro capillary electrode chain

- Pistol grip
- Measuring and calomel electrode thermostatted
- Automatic suction filling system



## NEW HAAKE FSB

Constant temperature circulator

- Combination circulator for temperature control and vacuum pump which provides the suction for automatic filling of capillary
- Accuracy at 37°C ± 0.02°C
- Built-in cooling coil
- Pumps to 2½ gal/min



# METROHM

For further information — U.S. Distributors

**BRINKMANN INSTRUMENTS, INC.** 115 Cutter Mill Road, Great Neck, New York

PHILADELPHIA · CLEVELAND · HOUSTON · MIAMI · MENLO PARK, CAL. · ST. LOUIS