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1. Direct reading to 0.02 pH from 0-14. Accuracy ±0.05 pH. Calibration and temperature compensation adjustment.

2. Similar to Metriam but with control knob for temperature compensation (0-100°C); also provision for use with Coleman Titration.

3. Range: pH 0-14, millivolts 1400 to +1400. Direct reading to 0.02 pH. Accuracy ±0.05 pH. Re-zeroes automatically.

4. Five ranges: 0-14 pH; 0-700 and 0-1400 millivolts. Readable to 0.02 pH. Accuracy ±0.07 pH. Temperature compensator (0-100°C).

5. For pH (0-14) and millivolt (+400 to −400 and +800 to −800). Readable to 0.02 pH. 0-100°C temperature control. Built-in voltage selector.

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7. Battery operated, 2000 hours service. pH range 0-14, readable to 0.03. Millivolt scale. Temperature control adjustable from 0-100°C.

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### 37320 MSCO PURE NICKEL SPATULAS

<table>
<thead>
<tr>
<th>Type</th>
<th>Ends</th>
<th>Dimensions, mm</th>
<th>L</th>
<th>W (ends)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>One square — One rounded</td>
<td>100 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>One square — One rounded</td>
<td>100 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>One square — One rounded</td>
<td>125 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>One square — One rounded</td>
<td>125 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>One rounded, bent — One handle</td>
<td>130 x 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>One rounded — One square</td>
<td>150 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>One rounded — One square</td>
<td>150 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>One above type — One rounded</td>
<td>150 x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>One above type — One rounded</td>
<td>150 x 4(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>One rounded — One ring handle</td>
<td>250 x 5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Shaved 4mm, wide by 2mm, deep — rounded and 7mm, wide.

(2) Shaved 8mm, wide by 4mm, deep — rounded and 7mm, wide.

### 37321 MSCO STAINLESS STEEL SPATULAS

<table>
<thead>
<tr>
<th>Type</th>
<th>Ends</th>
<th>Dimensions, mm</th>
<th>L</th>
<th>W (ends)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>One square — One taper</td>
<td>150 x 1 x 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>One square — One knife</td>
<td>150 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>One square — One knife</td>
<td>150 x 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>One rounded, bent — One knife</td>
<td>150 x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>One rounded — One knife</td>
<td>150 x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>One rounded — One knife</td>
<td>200 x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>One rounded — One &quot;chopper&quot;</td>
<td>200 x 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>One short, rounded — One round handle</td>
<td>140 x 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>One spoon — One square</td>
<td>160 x 3</td>
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</tr>
<tr>
<td>J</td>
<td>One spoon — One square</td>
<td>210 x 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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AAAS activities: Council, 1961–; chairman, Council Study Committee on Graduate Science Education and Standards, 1961–.

**William A. Wildhack**


Southwestern and Rocky Mountain Division

The Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science held its 39th annual meeting in Albuquerque, N.M., 28 April to 2 May, 1963.

Eighty individual research papers were included on the programs of the sections of the division, and 12 reports were made on undergraduate research projects by student members of Beta Beta Beta, which held a concurrent district meeting.

Special symposiums consisting of invited papers included “Aridity and man,” under the sponsorship of the Committee on Desert and Arid Zones Research, and “Improvement of science teaching,” sponsored by the divisional committee concerned with subject.

The 30th John Wesley Powell memorial lecture, a public event featured in each year’s meetings of the division, was given by Kirtley F. Mather on “The earth sciences in the sixties.”

In an address at the opening session of the meetings, Alan T. Waterman, president of the Association, delivered a very penetrating analysis of “The national and regional role of the AAAS.”

Anton H. Berkman, president of the division, diverted from the usual pattern of a presidential address and conducted a panel discussion on the challenge to the division of arid land studies. Members of the Committee on Desert and Arid Zones Research made up the panel. The president’s program was further featured by the presentation of the first annual award of a certificate of merit for outstanding contributions in the field of arid zones progress. This award was made posthumously to Clayton W. Botkin, a past president of the division, and was accepted in his name by his son Charles Botkin.
At the close of the meeting Edwin R. Helwig of the University of Colorado succeeded to the presidency of the division. Aden B. Meinel of the University of Arizona was selected as president-elect, and Howard J. Dittmer of the University of New Mexico as a member of the Executive Committee. Marlowe G. Anderson, New Mexico State University, will continue as secretary-treasurer and council representative. The next annual meeting of the Southwestern and Rocky Mountain Division will be held in Lubbock, Texas, 26–30 April 1964.

MARLOWE G. ANDERSON
New Mexico State University, Albuquerque

Society for General Systems Research

One of the eight societies elected at the 129th AAAS annual meeting 30 December 1962, as an affiliate of the Association, was the Society for General Systems Research.

The principal aim of the society is to encourage the development of theoretical systems which are applicable to more than one of the traditional departments of knowledge. All sciences develop theoretical systems of concepts, relationships, and models. Many of these systems are isomorphic, but their similarity is undetected because of differences in terminology and of other barriers to communication among specialists. Furthermore, systems which have been well worked out can be of assistance in the development of others.

The major functions of general systems research are therefore: (i) to investigate the isomorphy of concepts, laws, and models in various fields, and to help in useful transfers from one field to another; (ii) to encourage the development of adequate theoretical models in the fields which lack them; (iii) to minimize the duplication of theoretical effort in different fields; and (iv) to promote the unity of science through improving communication among specialists.

The feeling that such a scientific society would fill an evident need crystallized at the Center for Advanced Study in the Behavioral Sciences, Stanford, California. The response to the issuance of a manifesto in 1954 was extremely encouraging. Therefore, at the 1954 AAAS meeting in Berkeley, the Society for the Advancement of General Systems Theory was started.

Heredity and Development

By JOHN A. MOORE, Columbia University and Barnard College. Along with portions reprinted from Dr. Moore’s distinguished text, Principles of Zoology, this book contains new chapters describing the latest developments in genetics and embryology. It is particularly valuable for use in the introductory biology course.

1963. 256 pp. 77 illus. paperbound $1.95

Foundations of Thermodynamics

By PETER FONG, Utica College of Syracuse University. Departing from the approach used in conventional textbooks, Professor Fong expounds a new formulation that gives a physical insight to thermodynamics without the use of elaborate mathematics. Basic concepts are carefully defined, especially those which are pivotal in theory, such as the concept of reversible process.

1963. 104 pp. $2.50

Genetics

By RObERT C. KING, Northwestern University. Combining a sound classical viewpoint with the most modern research advances, this text provides a clear, thorough introduction to the elements of genetics. Cytology is discussed in considerable detail, and careful attention is focused on such topics as developmental genetics, population genetics, biochemical genetics, and evolution theory. Over 100 original drawings and extensive references are included.

1962. 362 pp. 120 illus. $7.50

An Introduction to General and Comparative Endocrinology

By E. J. W. BARRINGTON, University of Nottingham. This precise, logical exposition of the fundamental principles of comparative endocrinology traces the development of hypotheses and explores the problem of their interpretation. Since the comparative treatment is founded on a clear presentation of the principles derived from mammalian studies, the book is of interest to physiologists and research workers as well as to zoologists.

1963. 412 pp. 156 illus. $7.00

Oxford University Press
417 Fifth Ave., New York 10016

SCIENCE, VOL. 141

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A founding and organizing committee was approved which consisted of Ludwig von Bertalanffy, K. E. Boulding, Ralph W. Gerard, and Anatol Rapoport. Annual meetings have been held thereafter in conjunction with Section L of the AAAS. In 1958, Jerzy Neyman and Elizabeth L. Scott read a paper at the annual meeting which was awarded the AAAS Newcomb Cleveland Prize.

The first General Systems Yearbook appeared in 1956 and contained both original contributions and reprints of useful articles from out-of-the-way sources. Succeeding issues of the yearbook have been received with enthusiasm by the scientific community, as indicated by the annual increase of citations in a variety of scholarly publications.

The name originally chosen occasionally gave the impression that a theory already existed and merely needed propagation. Therefore the name was changed in 1957 to the Society for General Systems Research. At the same time the first election of officers was conducted. Kenneth E. Boulding was named president; Ludwig von Bertalanffy, vice president; and Richard L. Meier, secretary-treasurer. Currently, Anatol Rapoport and Milton D. Rubin are the society’s representatives on the AAAS Council.

Other officers, past and present, include Charles A. McClelland, Albert Shapero, and Gerald M. Weinberg. The current president is W. Ross Ashby, University of Illinois.

The membership is, as might be expected, a diverse assemblage of persons. They range from mathematicians, physical scientists, and engineers to psychologists and social scientists, but quite a few psychiatrists and medical researchers are also included. There is an interesting minority which cannot be adequately described even with a compound title. By mid-1963 the total membership was approximately 750, and the seventh yearbook had a distribution of over 1000 volumes.

Gerald M. Weinberg

I.B.M. Systems Research Institute,
New York, New York

Forthcoming Events

October

5. Paleontological Research Inst., Ithaca, N.Y. (K. Caster, Geology Dept., Univ. of Cincinnati, Cincinnati, Ohio) 7-10. Instruments and Research Equipment, symp. and exhibit, 13th annual,

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<table>
<thead>
<tr>
<th>Chemical</th>
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<td>90-493</td>
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<td>Sulphate</td>
<td>90-501</td>
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7-11. American Soc. of Civil Engineers, annual, San Francisco, Calif. (ASCE, 345 E. 47 St., New York 17)
7-12. Communication, 11th intern. congr., Genoa, Italy. (Civico Instituto Colombiano, Palazzo Tursi, Genoa)
8-10. Analytical Chemistry in Nuclear Technology, 7th conf., Gattlinburg, Tenn. (C. D. Susano, Oak Ridge Natl. Lab., P.O. Box X, Oak Ridge, Tenn.)
6-9. Process Engineers, annual, Hanover, Germany. (German Engineering Assoc., Rheingau Allee 25, Frankfurt-am-Main)
6-12. Clinical Pathology, 5th intern. congr., Mexico City, Mexico. (E. Cervera B., Asociacion Mexicana de Laboratorio Clinico, Durango 213, Mexico 7)
7. Pediatric Radiology, Montreal, P.Q., Canada. (R. G. Lester, Box 151, Medical College Station, Richmond, Va.)
8-11. Electromagnetic Relays, intern. conf., Sendai, Japan. (C. F. Cameron, School of Electrical Engineering, Oklahoma State Univ., Stillwater)
9. American Acad. of Arts and Sciences, Brookline, Mass. (R. W. Burhoe, American Acad. of Arts and Sciences, 280 Newton St., Brookline Station, Boston, Mass.)
9-12. Cytophotometry and Interference Microscopy, symp., Giessen, Germany. (W. Sandritter, Pathologisches Institut, Justus Liebig Universität, Giessen)
10-11. Lipid Transport, intern. symp., Nashville, Tenn. (H. C. Meng, Vanderbilt Univ. School of Medicine, Nashville)
10-13. American Soc. of Clinical Hypnosis, 6th, San Francisco, Calif. (W.T. Heron, American Soc. of Clinical Hypnosis, 800 Washington Ave., SE, Minneapolis 14, Minn.)
13. American College of Dentists, Atlantic City, N.J. (O. W. Brandhorst, 4236 Lindell Blvd., St. Louis, Mo.)
14-16. Systems and Procedures Assoc. of America, intern., Milwaukee, Wis. (R. L. Irwin, 7890 Brookside Dr., Cleveland 38, Ohio)
15. Oak Ridge Inst. of Nuclear Studies, Oak Ridge, Tenn. (W. G. Pollard, ORINS, Oak Ridge)
15-17. Progress in Metallography, seminar, Leoben, Austria. (Eisenhütte Osterreich, Eisenhütteninstitut, Montanistische Hochschule, Leoben)
16-18. Ballistic Missile and Space Technology, San Diego, Calif. (C. T. Morrow, Aerospace Corp., P.O. Box 95085, Los Angeles, Calif.)
16-18. Gaseous Electronics, 16th annual conf., Pittsburgh, Pa. (G. J. Schulz, Westinghouse Research and Development Center, Pittsburgh 35)
16-18. Carbohydrates, 20th symp., 10th intern. symp., American Soc. of Carbohydrate Chemistry, Chicago 16
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