

with M. Freundlich and R. O. Burns, showed that valine, isoleucine, and leucine are required for the repression of enzymes of isoleucine and valine synthesis, a phenomenon termed multivalent repression.

A. B. Pardee and J. R. Beckwith described mutants capable of producing  $\beta$ -galactosidase constitutively, each at a different rate, over a 2000-fold range; the mutations governing the rate of enzyme production are in or near the structural gene. It was proposed that the rate of constitutive enzyme production is determined by the composition of the structural gene itself.

H. J. Vogel, D. F. Bacon, and A. Baich, in a study of regulation in the arginine path of *Escherichia coli*, obtained evidence that the structural gene for acetylornithine  $\delta$ -transaminase contains information for the recognition of the functional repressor (whether repression occurs at the level of DNA or of a DNA product). Eight genes controlling arginine synthesis, as well as the relevant repressibility gene, were mapped in strain W. Four of the genes are closely linked; the other five are well spread out.

It seems clear that unprecedented

advances have just been made in the area covered by the symposium. The main features of the genetic code appear to have emerged, and remarkable contributions have come from enzymological work and from the isolation and characterization, both chemical and physicochemical, of important classes of macromolecules, in conjunction with genetic techniques. Of the impressive rate of progress, Tatum said: "Looking back some twenty-odd years, particularly with Dr. Beadle here, . . . I think we would not have been able to anticipate . . . this extraordinary phenomenon in the development of molecular biology." Directions of future attainment are discernible, and the present successful partnership of biochemistry and genetics is likely to persist.

The National Science Foundation furnished financial support for the symposium. The proceedings will be published in book form.

HENRY J. VOGEL

VERNON BRYSON

J. OLIVER LAMPEN

*Institute of Microbiology,  
Rutgers University,  
New Brunswick, New Jersey*

## Forthcoming Events

### December

26-31. American Assoc. for the **Advancement of Science**, annual, Philadelphia, Pa. (R. L. Taylor, AAAS, 1515 Massachusetts Ave., NW, Washington 5)

The following 40 organizations will meet in conjunction with the AAAS annual meeting in Philadelphia:

Academy of **Psychoanalysis**. (A. H. Rifkin, 125 E. 65 St., New York 21)

American Assoc. of **Clinical Chemists**. (P. Paubionsky, Abington Memorial Hospital, Abington, Pa.)

American **Astronautical Soc.** (J. G. Stephenson, Airborne Instruments Laboratory, Walt Whitman Rd., Melville, L.I., N.Y.)

American **Economic Assoc.** (H. F. Williamson, AEA, Northwestern Univ., Evanston, Ill.)

American **Geophysical Union**. (W. E. Smith, AGU, 1515 Massachusetts Ave., NW, Washington 5)

American **Meteorological Soc.** (F. Sergeant, II, Dept. of Physiology, Univ. of Illinois, Urbana)

American **Nature Study Soc.** (J. A. Gustafson, Route #1, Homer, N.Y.)

American **Physiological Soc.** (R. E. Smith, School of Medicine, Univ. of California, Los Angeles)

American **Political Science Assoc.** (E. M. Kirkpatrick, APSA, 1726 Massachusetts Ave., NW, Washington, D.C.)

American **Psychiatric Assoc.** (M. Greenblatt, Massachusetts Mental Health Center, Boston)

American **Rocket Soc.** (B. Chifos, ARS, 500 Fifth Ave., New York 36)

American Soc. of **Criminology**. (J. Chwast, New York Inst. of Criminology, 115-117 W. 42 St., New York 36)

American Soc. of **Naturalists**. (W. K. Baker, Dept. of Zoology, Univ. of Chicago, Chicago 37, Ill.)

American Soc. of **Zoologists**. (R. L. Watterson, Dept. of Zoology, Univ. of Illinois, Urbana)

American **Sociological Assoc.** (B. Clark, Center for the Study of Higher Education, 2747 Bancroft Way, Berkeley 4, Calif.)

Association of American **Geographers**. (B. Burton, 213-1500 Arlington Blvd., Arlington, Va.)

Association for **Computing Machinery**. (B. Gilchrist, IBM Research Laboratory, Post Office Box 218, Yorktown Heights, N.Y.)

Biomedical **Information-Processing Organization**. (R. S. Ledley, Natl. Biomedical Research Foundation, Silver Spring, Md.)

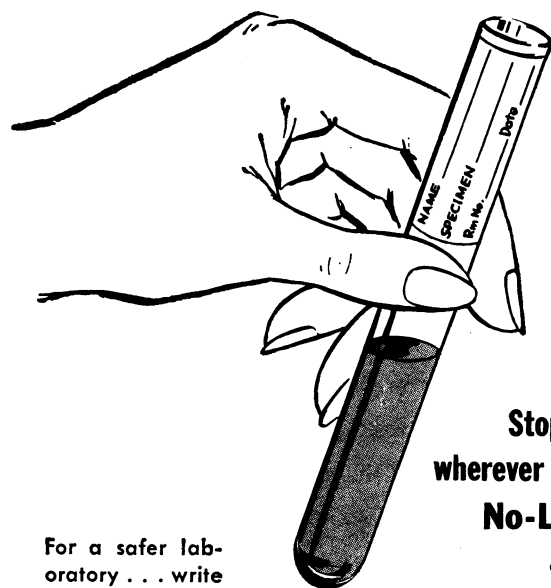
**Biometric Soc.**, ENAR. (T. A. Bancroft, Iowa State Univ., Ames)

**Ecological Soc. of America**. (R. B. Platt, Dept. of Biology, Emory Univ., Atlanta 22, Ga.)

**Herpetologists' League**. (W. Fox, School of Medicine, Louisiana State Univ., 1542 Tulane Ave., New Orleans 12)

**Institute of Management Sciences**. (B. V. Dean, Dept. of Management, Case Inst. of Technology, Cleveland, Ohio)

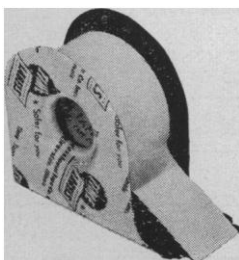
**Metric Assoc.** (R. P. Fischelis, 1426 G St., NW, Washington, D.C.)



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Mountain Lake **Biological Station**. (J. L. Riopel, Univ. of Virginia, Charlottesville)

National Assoc. of **Biology Teachers**. (P. R. Fordyce, Oak Park-River Forest High School, Oak Park, Ill.)

National Assoc. of **Science Writers**. (N. Haseltine, *Washington Post*, Washington, D.C.)

National **Geographic Soc.** (W. R. Gray, NGS, 16th and M Sts., Washington 6)

National **Science Teachers Assoc.** (R. H. Carleton, NSTA, 1201 16th St., NW, Washington 6)

National **Speleological Soc.** (J. V. Thrailkill, Dept. of Geology, Princeton Univ., Princeton, N.J.)

Philadelphia **Botanical Club**. (W. M. Benner, Acad. of Natural Sciences of Philadelphia, Philadelphia 3)

Scientific **Research Soc.** of America. (D. B. Prentice, RESA, 51 Prospect St., New Haven, Conn.)

**Sigma Delta Epsilon**. (D. Quiggle, 133 Chemical Engineering Bldg., Pennsylvania State Univ., University Park)

Society for General **Systems Research**. (R. L. Meier, Mental Health Research Inst., Ann Arbor, Mich.)

Society for the **History of Technology**. (T. P. Hughes, Dept. of History, Washington and Lee Univ., Lexington, Va.)

Society for Industrial and Applied **Mathematics**. (G. Kaskey, Remington Rand Univac, 1900 W. Allegheny Ave., Philadelphia)

Society for Industrial **Microbiology**. (T. C. Cordon, Agricultural Research

Service, 600 E. Mermaid Lane, Philadelphia 18)

Society of the **Sigma Xi**. (T. T. Holme, 51 Prospect St., New Haven, Conn.)

Society of Systematic **Zoology**. (C. F. Lytle, 801 Ware St., SW, Vienna, Va.)

**Tau Beta Pi Assoc.** (R. H. Nagel, Tau Beta Pi Assoc., Univ. of Tennessee, Knoxville)

United Chapters of **Phi Beta Kappa**. (C. Billman, 1811 Q St., NW, Washington 9)

Special conferences to be held during the meeting include:

**Academy Conference**, natl. meeting of 47 state academies. (R. C. Miller, California Acad. of Sciences, San Francisco)

Conference on **Science Manuscripts**. (N. Reingold, Science and Technology Div., Library of Congress, Washington 25)

Conference on **Scientific Manpower**. (T. J. Mills, National Science Foundation, Washington 25)

26-29. American **Physical Soc.**, Stanford, Calif. (H. A. Shugart, Univ. of California, Berkeley 4)

27-29. American **Geophysical Union**, western natl. meeting, Stanford, Calif. (W. W. Kellogg, Rand Corp., 1700 Main St., Santa Monica, Calif.)

27-29. American **Philosophical Assoc.**, Pacific Div., Berkeley, Calif. (L. E. Hahn, Washington Univ., St. Louis 30, Mo.)

27-29. Western Soc. of **Naturalists**, San Jose, Calif. (I. A. Abbott, Hopkins Marine Station, Pacific Grove, Calif.)

28-29. California Assoc. of **Chemistry**

**Teachers**, Fresno. (R. H. Major, 1736 N. Sierra Bonita Ave., Hollywood 46, Calif.)

28-29. **Northwestern Scientific Assoc.** Bellingham, Wash. (E. J. Larrison, Univ. of Idaho, Moscow)

28-30. **Archaeological Inst.** of America, Baltimore, Md. (L. A. Campbell, 5 Washington Sq. North, New York 3)

28-30. **Linguistic Soc.** of America, New York, N.Y. (A. A. Hill, Box 7790 University Station, Austin 12, Tex.)

## January

5. **Pediatrics, Medicine, Surgery, and Obstetrics**, seminar, Manila, Philippines. (A. C. Reid, 118 Riverside Dr., New York 24)

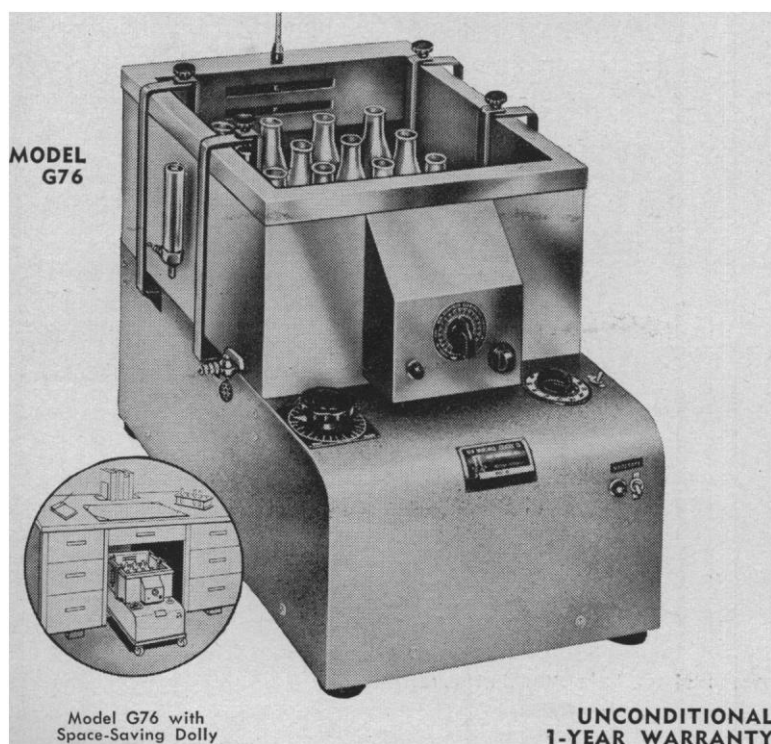
5-12. **Medical Conf.**, Dakar, Senegal. (P. Pene, c/o Faculté de Médecine, Dakar)

5-12. **Tumors of Conjunctive Tissue**, symp., Dakar, Senegal (by invitation). (H. F. Dorn, Intern. Union Against Cancer, c/o National Institutes of Health, Bethesda 14, Md.)

7-8. **Ultra-High Energy Nuclear Physics**, conf., Bristol, England. (Administrative Assistant, Inst. of Physics and the Physical Soc., 47 Belgrave Sq., London S.W.1, England)

7-10. **Millimeter and Submillimeter**, conf., Orlando, Fla. (H. L. Bassett, Millimeter Conf., Martin Company-MP-75, Orlando)

9-12. National Soc. of **Professional Engineers**, winter meeting, San Antonio, Tex. (P. H. Robbins, 2029 K St., NW, Washington 6)



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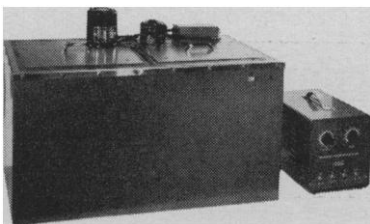
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13-18. American Chemical Soc., Cincinnati, Ohio. (A. H. Emery, 1155 16th St., NW, Washington 6)

14-16. Radiation Research, intern. conf., Natick, Mass. (Army Quartermaster Research and Engineering Center, Natick)

14-18. Association of Surgeons of West Africa, Ibadan, Nigeria. (V. A. Ngu, University College Hospital, Ibadan)

14-19. Atomic and Molecular Quantum Theory, symp., Sanibel Island, Fla. (D. W. Smith, Chemistry Dept., Univ. of Florida, Gainesville)

15-15 Feb. World Meteorological Organization, Working Group on Meteorological Transmissions, Paris, France. (WMO, 41 Avenue Giuseppe Motta, Geneva, Switzerland)

15-17. Association of American Colleges, annual, Atlantic City, N.J. (T. A. Distler, AAC, 1818 R St., NW, Washington 9)

15-17. Sesame, intern. conf., Maracay, Venezuela. (D. G. Langham, Sesamum Foundation, Milford, Conn.)

15-19. Immunopathology, intern. symp., La Jolla, Calif. (by invitation). (Science Information Div., National Foundation, 800 Second Ave., New York 17)

17-19. Engineers' Training, conf., Strasbourg, France. (Council of Europe, Avenue de l'Europe, Strasbourg)

17-19. Royal College of Physicians and Surgeons of Canada, annual, Edmonton, Alberta. (J. H. Graham, RCPSC, 74 Stanley Ave., Ottawa 2, Ont., Canada)

18-19. Blood, annual symp., Detroit, Mich. (G. F. Anderson, Dept. of Physiology and Pharmacology, Wayne State Univ., 1401 Rivard St., Detroit 7)

21-23. Chemistry and Biochemistry of Seed Proteins, intern. conf., New Orleans, La. (C. H. Fisher, Southern Utilization Research and Development Div., Agricultural Research Service, U.S. Dept. of Agriculture, P.O. Box 19687, New Orleans 19)

21-23. Institute of the Aerospace Sciences, annual, New York, N.Y. (IAS, 2 E. 64 St., New York 21)

21-24. American Meteorological Soc., annual, New York, N.Y. (R. L. Pfeffer, Lamont Geological Observatory, Columbia Univ., Palisades, N.Y.)

22. Infectious Diseases of the Heart and Circulation, conf., New York, N.Y. (C. A. R. Connor, New York Heart Assoc., 10 Columbus Circle, New York 19)

22-24. Reliability and Quality Control, natl. symp., San Francisco, Calif. (L. W. Ball, Boeing Co., P.O. Box 3707, Seattle 24, Wash.)

23-25. Elevated Temperature Mechanics, intern. conf., 3rd Navy Structural Mechanics Symp., New York, N.Y. (by invitation). (A. M. Freudenthal, 624 Mudd Bldg., Columbia Univ., New York 27)

23-26. American Assoc. of Physics Teachers, New York, N.Y. (R. P. Winch, Williams College, Williamstown, Mass.)

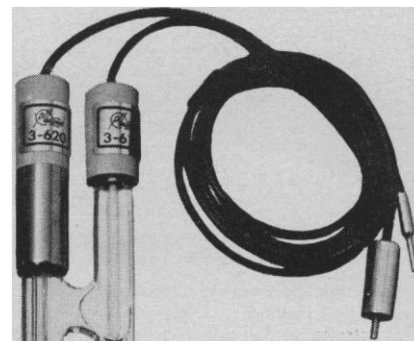
23-26. American Group Psychotherapy Assoc., annual, Washington, D.C. (AGPA, 1790 Broadway, New York 19)

24-27. American Mathematical Soc., annual, Berkeley, Calif. (AMS, 190 Hope St., Providence 6, R.I.)

26. Association for Symbolic Logic, Berkeley, Calif. (T. Hailperin, Dept. of Mathematics, Lehigh Univ., Bethlehem, Pa.)

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26-28. **Mathematical** Assoc. of America, annual, Berkeley, Calif. (H. M. Gehman, Univ. of Buffalo, Buffalo 14, N.Y.)

27-1. American Inst. of **Electrical Engineers**, winter general meeting, New York, N.Y. (R. S. Gardner, AIEE, 33 W. 39 St., New York 18)

28-2. American **Library** Assoc., Chicago, Ill. (D. H. Clift, ALA, 50 E. Huron St., Chicago 11)

28-2. **Body Composition**, conf., New York, N.Y. (J. Brozek, Dept. of Psychology, Lehigh Univ., Bethlehem, Pa.)

30-1. Military **Electronics**, natl. winter convention, Los Angeles, Calif. (F. P. Adler, Space Systems Div., Hughes Aircraft Co., Culver City, Calif.)

31-1. American Soc. for **Engineering Education**, college-industry conf., Atlanta, Ga. (W. L. Collins, Univ. of Illinois, Urbana)

31-1. Society of **Rheology**, annual western regional meeting, Emeryville, Calif. (T. L. Smith, Stanford Research Inst., Menlo Park, Calif.)

31-2. Western Soc. for **Clinical Research**, annual, Carmel-by-the-Sea, Calif. (H. R. Warner, Latter-day Saints Hospital, Dept. of Physiology, Salt Lake City 3, Utah)

#### February

4-8. **Rice Genetics and Cytogenetics**, symp., Los Baños, Laguna, Philippines. (Inter. Rice Research Inst., Manila Hotel, Manila, Philippines)

4-9. Recent Trends in **Iron and Steel Technology**, symp., Jamshedpur, India. (Secretary, Indian Inst. of Metals, 31 Chowringhee Rd., Calcutta, India)

4-20. Application of **Science and Technology** for the Benefit of Less Developed Areas, U.N. conference, Geneva, Switzerland. (Science Conference Staff, Agency for International Development, 826 State Dept. Annex 1, Washington 25)

5-14. International **Radio** Consultative Committee, Plan Subcommittee for Asia, New Delhi, India. (V. Barthoni, 128 rue de Lausanne, Geneva, Switzerland)

6-9. American College of **Radiology**, Chicago, Ill. (F. H. Squire, Presbyterian-St. Luke's Hospital, 1753 W. Congress St., Chicago 12)

8-18. United Nations Committee on **Industry and Natural Resources** in Asia and the Far East, Bangkok, Thailand. (S. Santitham, Rajadamnern Ave., Bangkok)

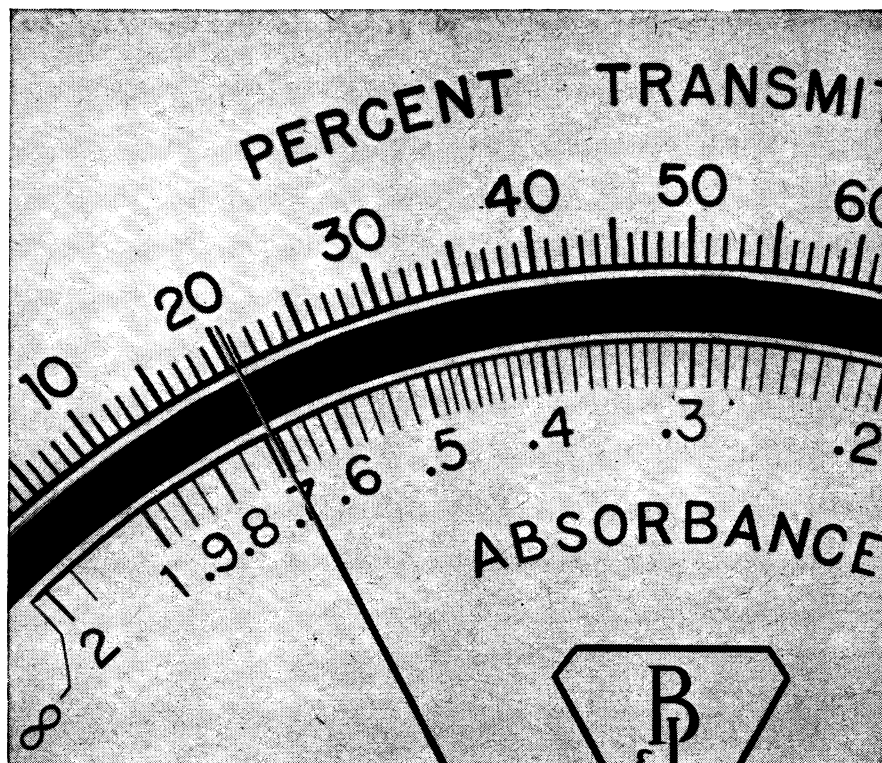
10-16. **Planned Parenthood**, intern. conf., Singapore. (V. Houghton, Intern. Planned Parenthood Federation, 69 Eccleston Sq., London, S.W.1, England)

11-14. American Soc. of **Heating, Refrigerating, and Air-Conditioning Engineers**, New York, N.Y. (R. C. Cross, 345 E. 47th St., New York 17)

11-14. Industrial **Lubrication**, intern. conf. and exhibit, London, England. (E. V. Paterson, Scientific Lubrication, 217a Kensington High St., London W.8)

11-15. Quantum **Electronics**, intern. symp., Paris, France. (Secrétariat, Troisième Congrès International d'Electronique Quantique, 7 rue de Madrid, Paris 8<sup>e</sup>)

12-14. **Lysozomes**, symp. (by invitation), London, England. (Ciba Foundation, 41 Portland Pl., London W.1)

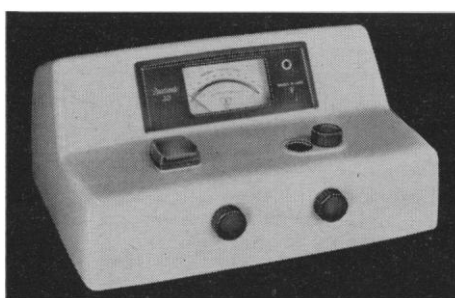


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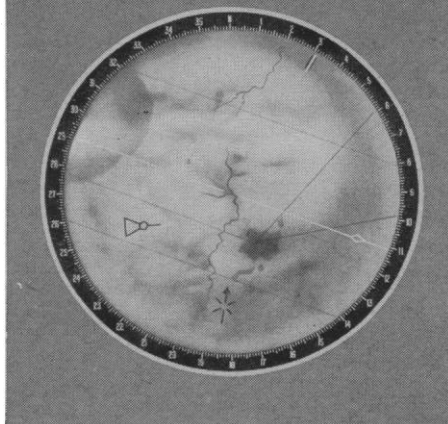
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13-15. **Electrochemistry**, 1st Australian conf., part I, Sydney, Australia. (F. Gutmann, Physical Chemistry Dept., Univ. of New South Wales, Kensington, N.S.W., Australia)

13-16. National Soc. of College Teachers of **Education**, Chicago, Ill. (E. J. Clark, Indiana State College, Terre Haute)

14-15. American Soc. for **Quality Control**, Textile and Needles Trades Div., annual conf., Clemson, S.C. (H. F. Littleton, c/o Charles H. Bacon Co., Lenoir City, Tenn.)

15-14 *Apr.* **Aeronautics and Space**, intern. exhibition, São Paulo, Brazil. (Santos Dumont Foundation, Avenida Ipiranga N°. 84, São Paulo)

16-23. Caribbean **Dental** Convention, Port of Spain, Trinidad. (A. V. Awon, 43-45 Frederick St., Port of Spain)

17-21. Technical Assoc. of the **Pulp and Paper** Industry, annual, New York, N.Y. (TAPPI, 360 Lexington Ave., New York 17)

18-20. American **Standards** Assoc., natl. conf., New York, N.Y. (ASA, 10 E. 40 St., New York 16)

18-20. **Biophysical** Soc., annual, New York, N.Y. (A. Mauro, Rockefeller Inst., New York)

18-20. **Electrochemistry**, 1st Australian conf., part II, Hobart, Tasmania. (J. N. Baxter, Chemistry Dept., Univ. of Tasmania, Hobart)

18-25. Expert Committee on **Food Additives**, FAO/WHO, Rome, Italy. (Intern. Agency Liaison Branch, Office of the Director General, Food and Agriculture Organization, Viale delle Terme di Caracalla, Rome)

19-22. **Radiochemistry**, inter-American conf., Montevideo, Uruguay. (Pan American Union, Washington 6)

20-22. Fundamental **Cancer** Research, annual symp., Houston, Tex. (L. Dmochowski, Section of Virology and Electron Microscopy, M. D. Anderson Hospital, Houston 25)

20-22. **Solid-State** Circuits, intern. conf., Philadelphia, Pa. (F. J. Witt, Bell Telephone Laboratories, Inc., Murray Hill, N.J.)

20-23. National Assoc. for Research in **Science Teaching**, Washington, D.C. (J. D. Novak, Biological Science Dept., Purdue Univ., Lafayette, Ind.)

20-24. Diseases of the **Chest**, intern. congr., New Delhi, India. (M. Kornfeld, American College of Chest Physicians, 112 E. Chestnut St., Chicago 11, Ill.)

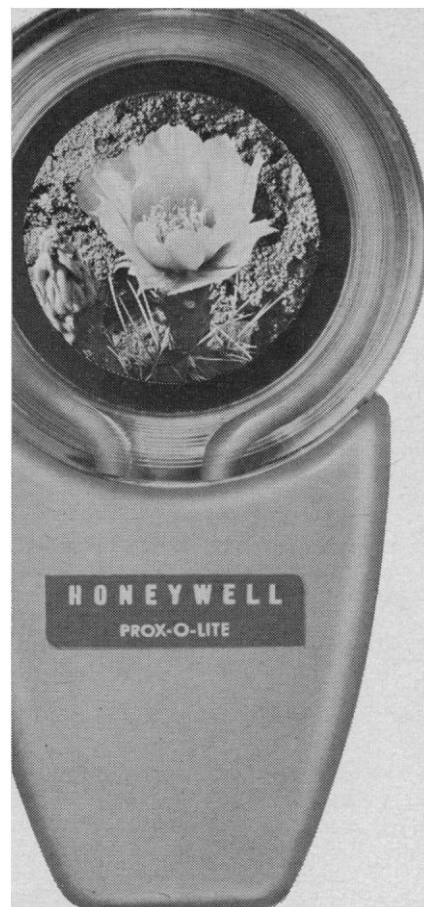
21-22. American Soc. for **Quality Control**, regional conf., Las Vegas, Nev. (S. R. Wood, Dept. 61, Bldg. 160, Aerojet-General Corp., Azusa, Calif.)

23-28. American Soc. for **Testing and Materials**, annual, Atlantic City, N.J. (H. H. Hamilton, 1916 Race St., Philadelphia 3, Pa.)

24-25. Unit Processes in **Hydrometallurgy**, symp., Dallas, Tex. (F. T. David, Colorado School of Mines, Golden)

24-27. **Diffusion**, intern. conf., Palm Springs, Calif. (J. A. Biles, Univ. of Southern California, School of Pharmacy, Los Angeles 7)

24-28. American Inst. of **Mining, Metallurgical, and Petroleum Engineers**, annual, Dallas, Tex. (E. Kirkendall, AIME, 345 E. 47 St., New York 17)



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