

established for the different actions of teratogens at different stages of development.

In turning from the fetus to the child, Brown (University of Georgia) said that recent research into bilirubin metabolism gives added importance to the effects of light soon after birth. In the newborn infant, bilirubin absorbs light, which may then react to form singlet oxygen and be degraded into water-soluble dipyrroles. Infants should be observed for the effects of actions consciously sought from a drug and un-

consciously produced from sunlight or fluorescent bulbs.

More is known about air pollution. Holland (St. Thomas' Hospital, London) presented evidence that the origins of respiratory diseases with onset late in life can be traced to childhood: persons who migrate from one country to another, even before 10 years of age, carry with them the higher disease rate of the old country. The next generation, born in the new country, does not have its parents' higher rate of respiratory diseases.

Other potential hazards in the environment of the infant or child include skin preparations (such as hexachlorophene), dyes or other materials on the surfaces of toys, pesticides and herbicides, and, as always, lead poisoning from ingesting paint from the walls of deteriorated old houses.

The teen-ager, because of unusual social and environmental subcultures, may experience special environmental difficulties. Cohen (Montefiore Hospital, New York) noted that food faddism and drug abuse, so common among adolescents, pose a variety of problems which may be intensified by the active growth of members of this age group. Adolescents are also more prone than older persons to enter occupations which subject them to chemical hazards.

In reviewing the genetic aspects of chemical pollution, Sutton (University of Texas, Austin) noted that environmentally induced mutations in somatic cells may threaten the survival of the individual, whereas mutations in germ cells may threaten the survival of a population. Mass screening for human mutagenesis will not be feasible until technology is further developed. It is theoretically possible, Sutton said, to examine 100 million somatic cells to detect very low mutation rates—on the order of  $1 \times 10^{-7}$ . This is an enormous advantage over the currently employed approaches to the study of germinal mutations.

The discussion made clear the fact that the Environmental Protection Agency is responsible for regulatory actions pertaining to chemical pollutants for the population in general, but no federal health organization is responsible for research concerning the special susceptibility of the fetus and child. The participants concluded that there is an urgent need for a national agency to assume responsibility for research in this area.

ROBERT W. MILLER

*Epidemiology Branch, National Cancer Institute, Bethesda, Maryland 20014*

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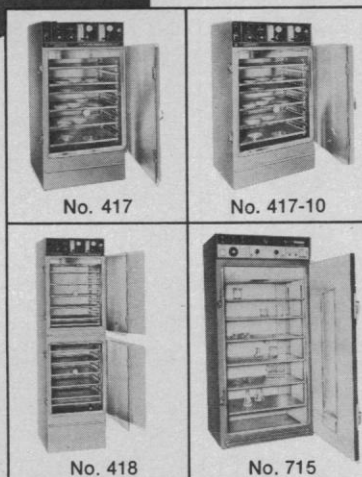
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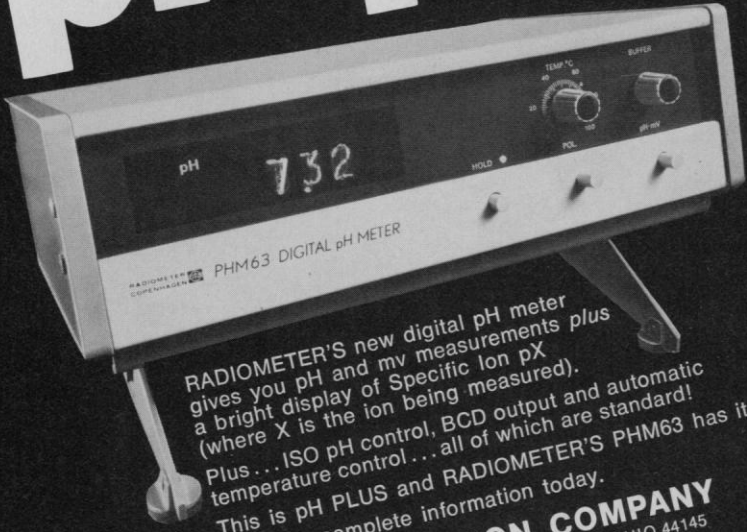
### Forthcoming Events

#### June

3-4. **Intestinal Microecology**, 3rd intern. symp., Columbia, Mo. (Conference Section, Continuing Medical Education, M-175 Medical Center, Columbia 65201)

3-6. **Tissue Culture Assoc.**, 25th annual, Miami, Fla. (M. Siegel, Univ. of Miami, P.O. Box 520875, Biscayne Annex, Miami 33152)

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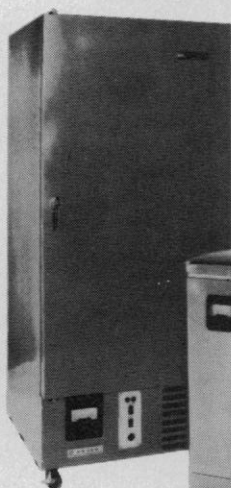


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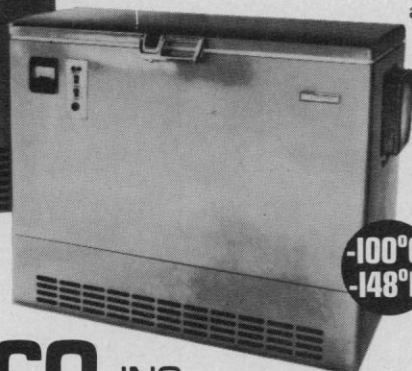
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6-7. **Geodesy/Solid-Earth and Ocean Physics**, 7th conf., American Geophysical Union, Defense Mapping Agency, Natl. Aeronautics and Space Administration, Natl. Oceanic and Atmospheric Administration, Ohio State Univ. Dept. of Geodetic Science, and U.S. Geological Survey, Columbus, Ohio. (AGU, 1707 L St., NW, Washington, D.C. 20036)

6-7. **Symposium on Nutrition and Public Policy**, New York State Nutrition Inst., Ithaca, N.Y. (M. T. Knipe, NYSNI, Savage Hall, Cornell Univ., Ithaca 14850)

6-7. **Role of Immunological Factors, Infectious, Allergic and Autoimmune Processes**, 8th Miles intern symp., Miles Labs., Inc., Baltimore, Md. (E. G. Bassett, Miles Labs., Inc., Elkhart, Ind. 46514)

6-9. **Association for the Psychophysiological Study of Sleep**, 14th annual, Jackson Hole, Wyo. (D. Foulkes, Univ. of Wyoming, Box 3291, University Station 82071)

7-10. **Society of Biological Psychiatry**, Boston, Mass. (I. F. Small, Larue D. Carter Memorial Hospital., 1315 W. 10 St., Indianapolis 46202)

8-12. **Nuclear Energy Conf.**, European Federation of Chemical Engineers, Paris, France. (Société de Chimie Industrielle, 80, Ave. du 18-juin-1940, 95000 Rueil-Malmaison, France)

9-11. **American Assoc. of Petroleum Geologists**, Rocky Mountain Section, Casper, Wyo. (W. H. Curry III, P.O. Box 3001, Casper 82601)

9-12. **Society for Developmental Biology**, 33rd annual, Athens, Ga. (W. S. Badman, SDB, P.O. Box 502, Kalamazoo, Mich. 49005)

9-12. **Nuclear Reactors**, 14th intern. conf., Canadian Nuclear Assoc., Montreal, Canada. (J. A. Weller, CNA, Suite 65 Queen St. W, Toronto, M5H 2M5, Can.)

9-12. **Public Health Hazards of Viruses in Water**, American Public Health Assoc., Mexico City, D.F. (N. R. Bernstein, APHA, 1015 18th St., NW, Washington, D.C. 20036)

9-14. **Geothermal Energy Conf.**, Engineering Foundation, Pacific Grove, Calif. (EF, 345 E. 47 St., New York 10017)

10-11. **Microanalysis with the Scanning Electron Microscope Conf.**, EMventions Microanalysis Lab., Rockville, Md. (J. M. Wehrung, EML, 2351 Shady Grove Rd., Rockville 20850)

10-12. **Conference on Laboratory Instruction in Chemistry**, Intern. Union of Pure and Applied Chemistry, Troy, N.Y. (R. L. Strong, Dept. of Chemistry, Rensselaer Polytechnic Inst., Troy 12181)

10-12. **American Neurological Assoc.**, 99th annual, jointly with Assoc. of British Neurologists, Boston, Mass. (S. A. Trufant, Cincinnati General Hospital, Cincinnati, Ohio 45229)

10-12. **Conference on Thermodynamics and National Energy Problems**, Numerical Data Advisory Board and the Natl. Acad. of Sciences, Warrenton, Va. (C. Holley, Los Alamos Scientific Lab., Los Alamos, N.M. 87544)

10-13. **Quantum Electronics**, 8th intern. conf., American Inst. of Physics and the Inst. of Electrical and Electronics Engineers, San Francisco, Calif. (D. Edgar, Courtesy Associates, Suite 700, 1629 K St., NW, Washington, D.C. 20006)

10-14. **Mathematical Research Conf. on Special Functions**, Natl. Science Founda-

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tion, Blacksburg, Va. (J. A. Cochran, Dept. of Mathematics, Virginia Polytechnic Inst. and Virginia Univ., Blacksburg 24061)

11-13. **Astronomical Soc. of the Pacific**, Bishop, Calif. (L. E. Salanave, ASP, 75 Southgate Ave., Daly City, Calif. 94015)

11-13. **Trace Substances in Environmental Health**, 8th annual conf., Columbia, Mo. (D. Hemphill, 426 Clark Hall, Univ. of Missouri, Columbia 65201)

11-14. **Electrodynamics of Substorms and Magnetic Storms**, American Geophysical Union, Bayse, Va. (AGU, 1707 L St., NW, Washington, D.C. 20036)

11-14. **Endangered and Threatened Species of North America**, Wild Canid Survival and Research Center, Washington, D.C. (WCSRC, Wolf Sanctuary, P.O. Box 16204, St. Louis, Mo. 63105)

11-14. American Soc. of **Mechanical Engineers**, New Orleans, La. (R. B. Finch, ASME, 345 E. 47 St., New York 10017)

11-14. Society of **Nuclear Medicine**, San Diego, Calif. (M. Glos, SNM, 305 E. 45 St., New York 10017)

12-14. **Endocrine Soc.**, Atlanta, Ga. (M. M. Branch, Suite 319, 1411 Classen Blvd., Oklahoma City, Okla. 73106)

12-14. International **Microwave Symp.**, Inst. of Electrical and Electronics Engineers, Atlanta, Ga. (E. B. Joy, School of Electrical Engineering, Georgia Inst. of Technology, Atlanta 30332)

12-14. Canadian **Psychological Assoc.**, 35th annual, Windsor, Ont. (M. Bunt, Univ. of Windsor, Windsor II, Ont.)

12-14. Society of **Research Administrators**, Northeastern section, New York, N.Y. (L. Lasker, New York Medical College, Fifth Ave. at 106 St., New York 10029)

12-15. **Analysis of Lipids and Lipoproteins**, American Oil Chemists' Soc., Washington, D.C. (E. G. Perkins, Dept. of Food Science, Burnsides Research Lab., Univ. of Illinois, Urbana)

13-15. Midwest Conf. of **Parasitologists**, annual, Ann Arbor, Mich. (J. H. Greve, Dept. of Veterinary Pathology, Iowa State Univ., 50010)

13-16. Society of **Biological Psychiatry**, Boston, Mass. (I. F. Small, 1315 W. 10 St., Indianapolis, Ind. 46202)

16-19. International **Communications Conf.**, Inst. of Electrical and Electronics Engineers, Minneapolis, Minn. (A. Cohen, Inst. of Technology, Univ. of Minnesota, Minneapolis 55455)

16-20. Canadian **Anesthetists Soc.**, St. John's, Newfoundland. (CAS, 178 St. George St., Toronto, Ont., M5R 2M7)

16-20. **Medicinal Chemistry**, 14th symp., American Chemical Soc., Durham, N.H. (R. E. Lyle, Dept. of Chemistry, Parson Hall, Univ. of New Hampshire, Durham 03824)

16-20. **Photochemistry Conf. Honoring Prof. Francis E. Blacet**, Nashville, Tenn. (T. W. Martin, Box 1506/B, Vanderbilt Univ., Nashville 37235)

16-21. American Inst. of **Biological Sciences**, Tempe, Ariz. (A. Kulback, AIBS, 1401 Wilson Blvd., Arlington, Va. 22209)

16-21. **Botanical Soc. of America**, Tempe, Ariz. (B. F. Palser, Dept. of Botany, Rutgers Univ., New Brunswick, N.J. 08903)

16-21. American **Fern Soc.**, Tempe, Ariz. (T. R. Webster, Biological Sciences



Group, Univ. of Connecticut, Storrs 06268)

16-21. Society for **Invertebrate Pathology**, 7th annual, Tempe, Ariz. (A. C. Smith, Hawaii BioMarine, No. A102, 4300 Waialae Ave., Honolulu, Hawaii 96816)

16-21. International Conf. on **Microscopy**, McCrone Research Inst., Chicago, Ill. (W. C. McCrone, 2820 S. Michigan Ave., Chicago 60616)

16-21. **Mycological Soc. of America**, Tempe, Ariz. (C. T. Rogerson, New York Botanical Garden, Bronx, N.Y. 10458)

16-21. American Soc. of **Plant Taxonomists**, Tempe, Ariz. (D. E. Stone, Dept. of Botany, Duke Univ., Durham, N.C. 27706)

16-21. American **Rheumatism Assoc.**, Toronto, Ont., Canada (L. Bonfiglio, ARA, 1212 Ave. of the Americas, New York 10036)

16-22. World Confederation for **Physical Therapy**, 7th intern. congr., Montreal, P.Q., Canada. (WCPT, Brigray House 20/22, Mortimer St., London W.1, England)

17-19. **Recent Advances in the Analytical Chemistry of Pollutants**, 4th symp., American Chemical Soc. and U.S. Environmental Protection Agency, Basle, Switzerland. (D. M. Hercules, Dept. of Chemistry, Univ. of Georgia, Athens 30602)

17-19. **Velikovsky and the Recent History of the Solar System**, Student Academic Freedom Forum, Hamilton, Ont., Canada. (S. L. Talbott, *Pensee Magazine*, Post Office Box 414, Portland, Ore. 97207)

17-20. American Soc. for **Engineering Education**, Troy, N.Y. (L. B. Williams, ASEE, Suite 400, 1 Dupont Circle, NW, Washington, D.C. 20036)

17-20. American Soc. of **Plant Physiologists**, Ithaca, N.Y. (W. H. Klein, Smithsonian Radiation Biology Lab., 12441 Parklawn Dr., Rockville, Md. 20852)

17-20. Canadian **Public Health Assoc.**, 65th annual, St. John's, Newfoundland. (C. D. Noble, CPHA, 1255 Yonge St., Toronto, Ont., M4T 1W6)

17-21. American Assoc. for the **Advancement of Science** (Pacific Div.), Irvine, Calif. (R. T. Orr, California Acad. of Sciences, Golden Gate Park, San Francisco 94118)

17-22. American Soc. of **Ichthyologists and Herpetologists**, Ottawa, Ont., Canada. (R. Highton, Dept. of Zoology, Univ. of Maryland, College Park 20742)

17-22. **Phycological Soc. of America**, Tempe, Ariz. (M. J. Wynne, Dept. of Botany, Univ. of Texas, Austin 78712)

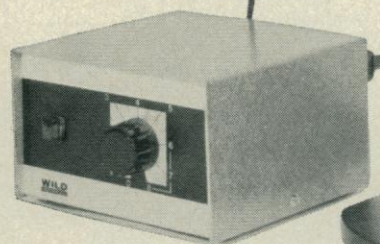
19-20. **Problem Solving Through Information Management**, Univ. of Pittsburgh, Pittsburgh, Pa. (Director of Continuing Education, 418 Cathedral of Learning, Univ. of Pittsburgh, Pittsburgh 15260)

19-21. **Biological Motivated Automata Theory Conf.**, McLean, Va. (M. A. Arbib, Dept. of Computer and Information Science, Univ. of Massachusetts, Amherst 01002)

19-22. Idaho **Medical Assoc.**, Sun Valley. (A. L. Bird, 407 W. Bannock St., Boise, Idaho 83702)

20. Symposium on the **Systems Approach: Key to Successful Computer Applications**, Assoc. for Computing Machin-

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ery, Gaithersburg, Md. (Z. Ruthberg, Natl. Bureau of Standards, Washington, D.C. 20234)

20-21. **Energy R & D Management Briefing and Conf., Power Engineering and Pollution Engineering**, Washington, D.C. (Government Institutes, Conf. Management, Suite 303, 4733 Bethesda Ave., NW, Washington, D.C. 20014)

20-21. Society for **Vascular Surgery**, Chicago, Ill. (J. A. DeWeese, SVS, 260 Crittenden Blvd., Rochester, N.Y. 14642)

20-22. American Assoc. of **Physics Teachers**, Boone, N.C. (A. A. Strassenburg, AAPT, Drawer AW, Stony Brook, N.Y. 11790)

21-23. Society for **Investigative Dermatology**, Chicago, Ill. (J. S. Strauss, Boston Univ. Medical Center, 80 E. Concord St., Boston, Mass. 02118)

23-26. American Soc. of **Agricultural Engineering**, 67th annual mtg., Stillwater, Okla. (J. L. Butt, ASAE, 2950 Niles Rd., St. Joseph, Mo. 49085)

23-26. American **Dairy Science Assoc.**, Guelph, Ont., Canada. (C. Cruse, ADSA, 113 N. Neil St., Champaign, Ill. 61820)

23-27. American Soc. of **Heating, Refrigerating, and Air-Conditioning Engineers**, Montreal, P.Q., Canada. (A. T. Boggs, ASHRAE, 345 E. 47 St., New York 10017)

23-27. American **Medical Assoc.**, Chicago, Ill. (E. B. Howard, AMA, 535 N. Dearborn St., Chicago 60610)

23-28. American Soc. of **Medical Technologists**, New Orleans, La. (S. B. Friedheim, ASMT, Suite 200, 5555 W. Loop, Bellaire, Tex. 77401)

23-28. American **Nuclear Soc.**, Phila-

delphia, Pa. (O. J. DuTemple, ANS, 244 E. Ogden Ave., Hinsdale, Ill. 60521)

24-25. International Symp. on **Metrication—Managing the Industrial Transition**, jointly by American Soc. for Testing and Materials, American Natl. Standards Inst., and American Natl. Metric Council, Washington, D.C. (ASTM, 1916 Race St., Philadelphia, Pa. 19103)

24-26. **Computers in the Undergraduate Curricula**, 5th. Natl. Science Foundation and Washington State Univ., Pullman. (O. W. Rechard, Computer Science Dept., Washington State Univ., Pullman 99163)

24-28. **Chemistry of Natural Products**, 9th intern. symp., Intern. Union of Pure and Applied Chemistry, Ottawa, Ont., Canada. (M. K. Ward, Natl. Research Council of Canada, Ottawa K1A 0R6)

24-28. American Soc. of **Limnology and Oceanography**, Seattle, Wash. (G. W. Saunders, P.O. Box 853, Gaithersburg, Md. 20760)

25-28. Institute of **Navigation**, San Diego, Calif. (R. E. Freeman, IN, Suite 832, 815 15th St., NW, Washington, D.C. 20005)

25-29. American Assoc. of **Bioanalysts**, Washington, D.C. (AAB, Suite 805, 411 N. 7th St., St. Louis, Mo. 63101)

26-28. **Drug Information Assoc.**, Chicago, Ill. (C. R. McDonnell, Johnson and Johnson Research Center, New Brunswick, N.J. 08903)

27-29. **Gene Regulation in Mammals**, 45th symp., Jackson Lab., Bar Harbor, Maine. (A. A. Kandutsch, Jackson Lab., Bar Harbor, Maine 04609)

27-29. **Sickle Cell Disease**, Natl. Institutes of Health, Washington, D.C. (J. I.

Hercules, Sickle Cell Disease Branch, Bldg. 31, Room 5A-03, Natl. Heart and Lung Inst., Bethesda, Md. 20014)

28-3. National **Education Assoc.**, Chicago, Ill. (T. Herndon, NEA, 1201 16th St., NW, Washington, D.C. 20036)

30-6. **Research Paradigms and Priorities for Social Psychology: Transnational Perspectives Conf.**, Scientific Affairs Div., North Atlantic Treaty Organization, Ottawa, Ont., Canada. (L. H. Strickland, Dept. of Psychology, Carleton Univ., Ottawa K1S 5B6)

## July

1-2. National Symp. on **Water Resources Problems Related to Mining**, American Water Resources Assoc. and Colorado School of Mines, Golden. (D. T. Snow, Geology Dept., Colorado School of Mines, Golden 88040)

1-5. World Congr. of **Environmental Medicine and Biology**, Paris, France. (R. Abbou, Secretariat General et Scientifique, 115, rue de la Pompe, 75116 Paris)

1-5. British Council for **Rehabilitation of the Disabled**, 5th intern. seminar and exhibition, London, England. (I. R. Henderson, REHAB, Tavistock House (South), Tavistock Sq., London, WC1H 9LB)

3-5. European **Chemoreception Research Organization**, 1st congr., Paris-Orsay, France. (ECRO, Collège de France, 11 Place Marcelin Berthelot, 75231 Paris Cedex 05, France)

7-9. **Gamma Sigma Delta**, Brookings, S.D. (K. R. Keller, Agricultural Experiment Sta., 104 Patterson Hall, North Carolina State Univ., Raleigh 27607)

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