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mental models of hypertension, as the hypertension develops without the intervention of either surgery or other manipulatory practices. By selective breeding, a colony of spontaneously hypertensive rats was developed in the laboratory of Professor Kozo Okamoto, Department of Pathology, Kyoto University, School of Medicine, Kyoto, Japan. With the cooperation of Professor Okamoto, a colony was established at the National Institutes of Health in 1966, under the supervision of Dr. Carl Hansen. From that initial colony in Bethesda, Maryland, there now exist some 40 groups throughout the United States that have established colonies of these hypertensive rats. Colonies exist in many other countries as well.

The basic questions posed at the seminar concerned the pathogenesis of the hypertension in these animals and the questions of whether the progressive hypertension that is seen with increasing age and the course of histopathology that ensues is similar to that of essential hypertension in man. A large proportion of the papers and discussion was centered on the sympathetic nervous system and the renin-angiotension system to determine whether they were implicated in the hypertension. A number of groups reported that, if anything, these systems exhibited reduced activity as a compensatory mechanism for the hypertension. Thus, the spontaneously hypertensive rat appears to be an excellent model of human essential hypertension in that the hypertension has a hereditary component, and does not appear to be of primary renal or simple neurogenic origin.

Studies were also reported on the use of these animals to evaluate the therapeutic efficacy of antihypertensive agents. Despite the availability of many animal models to evaluate hypotensive drugs, the action of many of the commonly used antihypertensive drugs were first observed in man. In general, it was found that the spontaneously hypertensive rat appears to be a sensitive experimental model for evaluating antihypertensive drugs. Studies on two new and interesting drugs, fusaric acid and ouidenone, were presented.

Another point repeatedly brought out was that the sequelae of the hypertension in the spontaneously hypertensive rat resemble those seen in essential hypertension. These include the cerebral damage, arteriosclerosis, and cardiac hypertrophy. These changes did not occur in animals in which the pressure was

kept from rising by treatment with antihypertensive drugs.

These animals offer an opportunity to answer critical questions in regard to the problem of human essential hypertension. Furthermore, the fact that they are now generally available makes it possible to compare the results of investigators in different laboratories.

SIDNEY UDENFRIEND

SYDNEY SPECTOR

*Roche Institute of Molecular Biology,
Nutley, New Jersey 07110*

Forthcoming Events

July

1-7. International Assoc. of Medical Labs., 10th congr., Vienna, Austria. (Mrs. I. Hertz, Verband dipl und techn Assistentinnen, Spitalgasse 4, 1090 Vienna)

2-5. Environmental Acoustics, 2nd symp., London, England. (Meetings Officer, Inst. of Physics, 47 Belgrave Sq., London SW1X 8QX)

2-6. International Congr. of Physical Medicine, 6th, Barcelona, Spain. (J. S. Garcia Alsina, IFPM, Ravella 4, Barcelona 6)

2-7. Environment, 36th annual conf., Natl. Environmental Health Assoc., New York, N.Y. (N. Pohlit, NEHA, 1600 Pennsylvania Ave., Denver, Colo. 80203)

3-6. Shell Structures and Climatic Influences, Intern. Assoc. for Shell Structures, Calgary, Alta., Canada. (P. G. Glockner, Dept. of Civil Engineering, Univ. of Calgary, Calgary 44)

5-8. Shock Tube Symp., 8th intern., London, England. (Symp. Secretary, Dept. of Aeronautics, Imperial College, Prince Consort Rd., London, S.W. 7)

6-8. RF Plasma Heating, American Physical Soc., Lubbock Tex. (M. O. Hagler, Dept. of Electrical Engineering, Texas Tech Univ., Lubbock 79409)

9-12. Molecular Beams, 4th intern. symp., Cannes, France. (F. M. Devienne, Laboratoire de Physique Moléculaire des Hautes Energies, B.P.2 (06), Peymeinade, France)

9-14. American Malacological Union, Galveston, Tex. (A. S. Merrill, Biological Lab., Natl. Marine Fisheries Service, Oxford, Md. 21654)

9-14. Power Engineering Soc., San Francisco, Calif. (Meetings Officer, Inst. of Electrical and Electronics Engineers, Inc., 345 E. 47 St., New York 10017)

9-14. Public Transportation in Urban Areas, Engineering Foundation, Henniker, N.H. (EF, 345 E. 47 St., New York 10017)

10-12. DNA Synthesis in vitro, 2nd annual Steenbock symp., Madison, Wis. (Mrs. M. Parker, Dept. of Biochemistry, 420 Henry Mall, Univ. of Wisconsin, Madison 53706)

10-14. Coastal Engineering, intern. conf., American Soc. of Civil Engineers, Vancouver, B.C., Canada. (H. R. Hands, ASCE, 345 E. 47 St., New York 10017)

10-14. **Interaction of Radioactive Contaminants with the Constituents of the Marine Environment**, Seattle, Wash. (J. H. Kane, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

10-14. **Rarefied Gas Dynamics**, 8th intern. symp., Stanford, Calif. (K. Karacheti, Dept. of Aeronautics and Astronautics, Stanford Univ., Stanford 94305)

11-14. **Society of Nuclear Medicine**, Boston, Mass. (Mrs. M. Glos, SNM, 211 E. 43 St., New York 10017)

11-15. **National Soc. of Professional Engineers**, Denver, Colo. (P. H. Robbins, NSPE, 2029 K St., NW, Washington, D.C. 20006)

12-15. **International Soc. of Clinical Lab. Technologists**, St. Louis, Mo. (D. Bier Birenbaum, ISCLT, 805 Ambassador Bldg., St. Louis, Mo. 63101)

16-19. **American Assoc. for Clinical Immunology and Allergy**, Seattle, Wash. (S. H. Jaros, AACIA, 9705 Louis Dr., Omaha, Neb. 68114)

16-20. **American Veterinary Medical Assoc.**, New Orleans, La. (M. R. Clarkson, AVMZ, 600 S. Michigan Ave., Chicago, Ill. 60605)

16-21. **International Soc. of Hematology**, intern. congr., São Paulo, Brazil. (World Federation of Hemophilia, Suite 806, 1420 St. Mattieu, Montreal 108, P.Q., Canada)

16-28. **Technology and the People**, Inst. on Man and Science, Rensselaerville, N.Y. (G. A. Enk, IMS, Rensselaerville 12147)

17-20. **International Symp. on Sex Education**, Tel Aviv, Israel. (E. Chigier, P.O. Box 16271, Tel Aviv, Israel)

17-21. **Electron Probe Analysis Soc. of America**, 7th natl. conf., San Francisco, Calif. (C. G. Cleaver, General Electric Co., Vallejos Nuclear Center, Bldg. 105, Pleasanton, Calif. 94566)

17-22. **American Medical Technologists**, Philadelphia, Pa. (C. B. Dziekonski, AMT, 710 Higgins Rd., Park Ridge, Ill. 60068)

18-21. **Cyclotron Conf.**, 6th intern., Vancouver, B.C., Canada. (N. Brearley, Univ. of British Columbia, Vancouver 8)

18-21. **Hormones, the Brain, and Behavior**, 3rd intern. symp., Intern. Soc. of Psychoneuroendocrinology, London, England. (R. P. Michael, Inst. of Psychiatry, De Crespigny Park, Denmark Hill, London SE5 8AF)

19-21. **Defects in Semiconductors**, intern. conf., Reading, England. (Meetings Officer, Inst. of Physics, 47 Belgrave Sq., London S.W.1, England)

19-22. **Calorimetry Conf.**, 27th, Park City, Utah. (J. M. Sturtevant, Dept. of Chemistry, Yale Univ., New Haven, Conn. 06520)

20-22. **Modern Instrumental Methods in Natural Products Research**, American Soc. of Pharmacognosy, Columbus, Ohio. (J. E. Robbers, School of Pharmacy and Pharmacal Science, Purdue Univ., Lafayette, Ind. 47907)

23-28. **Control Strategies for Power Systems**, Engineering Foundation, South Berwick, Maine. (EF, 345 E. 47 St., New York 10017)

23-28. **Illuminating Engineering Soc.**, Tulsa, Okla. (P. C. Ringgold, IES, 345 E. 47 St., New York 10017)

23-28. **Pharmacology and the Future of Man**, 5th intern. congr., American Soc. for Pharmacology and Experimental Therapeutics, San Francisco, Calif. (E. B. Cook, ASPET, 9650 Rockville Pike, Bethesda, Md. 20014)

24-29. **Foetal and Neonatal Physiology**, Sir Joseph Barcroft Centenary Symp., Physiological Soc., Cambridge, England. (P. W. Nathanielsz, SJBCS, Physiological Lab., Cambridge, England)

24-30. **Angiology**, 8th intern. congr., Rio de Janeiro, Brazil. (D. F. M. Bunce, Dept. of Physiology, College of Osteopathic Medicine and Surgery, Sixth at Center, Des Moines, Iowa 50309)

26-29. **American Dairy Science Assoc.**, Blacksburg, Va. (C. Cruse, ADSA, 425 Illinois Bldg., 113 N. Neil St., Champaign, Ill. 61820)

26-31. **Inter-American Meeting of Neuroradiology**, Rio de Janeiro, Brazil. (A. Tomax Rezende, Caixa Postal 9031, ZC-02, Rio de Janeiro, Gb)

27-29. **Extra-Corporeal Technology**, 10th intern. conf., New York, N.Y. (E. C. Berger, American Soc. of Extra-Corporeal Technology, Inc., 287 E. 6 St., St. Paul, Minn. 55101)

27-29. **Intracranial Pressure**, 1st intern. symp., Hannover, Germany. (M. Brock, Neurochirurgische Klinik, Medizinische Hochschule Hannover, 3 Hannover-Klee-feld, Roderbruchstrasse 101, Germany)

29-5. **Technology and Human Future**, 19th annual, Inst. on Religion in an Age of Science, Star Island, N.H. (F. Nesbett, 219 Harvard St., Brookline, Mass. 02146)

30-2. **American Soc. of Animal Science**, Blacksburg, Va. (G. P. Lofgreen, Imperial Valley Field Sta., 1004 E. Holton Rd., El Centro, Calif. 92243)

30-3. **Crystal Growth**, 2nd natl. conf., American Assoc. for Crystal Growth, Princeton, N.J. (D. Richman, RCA Labs., David Sarnoff Research Center, Princeton, 08540)

30-3. **Society for Cryobiology**, 9th annual, Washington, D.C. (D. M. Robinson, Red Cross Blood Research Lab., 9312 Old Georgetown Rd., Bethesda, Md. 20014)

30-3. **National Dental Assoc.**, New Orleans, La. (NDA, P.O. Box 197, Charlottesville, Va. 22902)

30-4. **International Organization for Medical Physics**, 3rd, Göteborg, Sweden. (R. Kadefors, Dept. of Applied Electronics, Chalmers Univ. of Technology, 402 20 Göteborg)

31-4. **Emergency Medical Services**, American Paramedical Inst., Honolulu, Hawaii. (J. Galbreth, API, P.O. Box 4496, Honolulu 96813)

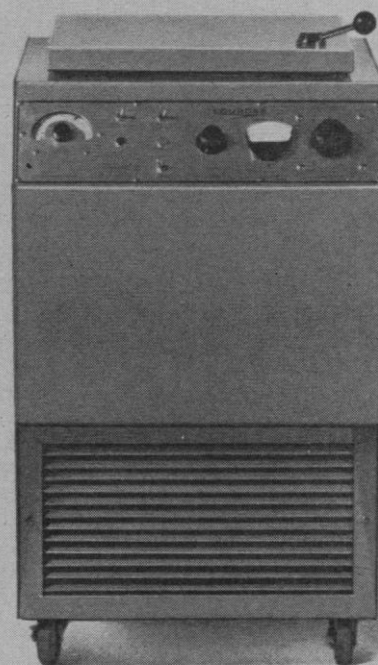
31-4. **Use of Nuclear Techniques in the Basic Metal Industries**, Intern. Atomic Energy Agency, Helsinki, Finland. (J. H. Kane, Div. of Technical Information, Atomic Energy Commission, Washington, D.C. 20545)

August

2-4. **Applications of X-ray Analysis**, 21st conf., Denver, Colo. (C. O. Ruud, Metallurgy and Materials Science Div., Denver Research Inst., Univ. of Denver, Denver 80210)

4-7. **Poultry Science Assoc.**, Columbus, Ohio. (C. B. Ryan, Texas A&M Univ., College Station 77843)

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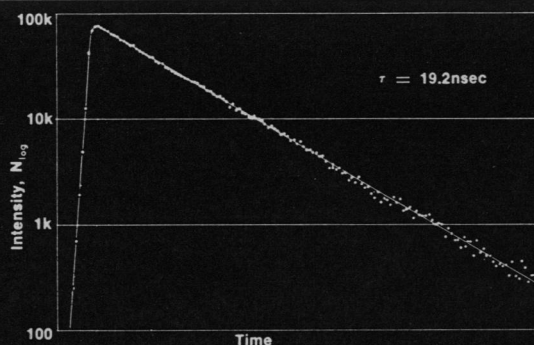
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Identification of the 19.2nsec decay component of quinine sulfate. Spectrum was produced in less than one minute. Light pulser rate: 40,000 per sec.

Fast and accurate nanosecond fluorescence lifetime spectra using the single-photon counting technique

A digital approach

Single-photon counting, a highly sensitive technique which actually samples individual quanta of light, is generally acknowledged to be the best method of measuring very low light levels. Now Ortec has applied this technique to the field of nanosecond fluorescence spectroscopy. The Ortec Model 9200 Nanosecond Fluorescence Spectrometer uses a short duration optical light pulse to excite the sample and measures the decaying fluorescence intensity as a function of time over several decades.

Our system offers sensitivity and accuracy increased by orders of magnitude compared to existing analytical techniques. This new system is already producing outstanding results in studies of chemical reaction rates, molecular structure, and molecular conformation changes.

Improved data reduction

A multichannel analyzer records each detected fluorescence photon against a time base for immediate CRT display or Teletype printout of the spectrum. Data is manipulated and stored in a digital,

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The 9200 system will measure both single and multiple decay components. Multiple components are clearly represented on the spectrum and easily read. (The spectrum above shows the straight line response of a sample having a single lifetime.)

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System components

The exact system configuration will depend on the user's particular requirements, but the basic system consists of a nanosecond light pulser, sample chamber including photomultiplier, multi-channel analyzer, and associated electronics. The entire system is designed around NIM-standard modules for enhanced flexibility, reliability, and ease of servicing.

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In Europe: Ortec Ltd., Dallow Road, Luton, Bedfordshire. Phone: LUton 27557. Ortec GmbH, 8 München 13, Frankfurter Ring 81, West Germany. Phone: (0811) 359-1001.



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6-9. **Soil Conservation Soc. of America**, Portland, Ore. (H. W. Pritchard, 7515 NE Ankeny Rd., Ankeny, Iowa 50021)

6-10. **American Phytopathological Soc.**, Mexico City, Mexico. (R. J. Green, Jr., Dept. of Botany and Plant Pathology, Purdue Univ., Lafayette, Ind. 47907)

7-9. **Anatomic Pathology of Fish**, Registry of Comparative Pathology and Univ. of Wisconsin Sea Grant Program, Washington, D.C. (G. Migaki, Comparative Pathology Branch, Armed Forces Inst. of Pathology, Washington, D.C. 20395)

7-9. **Atmospheric Radiation**, American Meteorological Soc., Fort Collins, Colo. (AMS, 45 Beacon St., Boston, Mass.)

7-10. **American Health Congr.**, jointly by American Hospital Assoc., Catholic Hospital Assoc., American Nursing Home Assoc., and Health Industries Assoc., Chicago, Ill. (G. F. Schuyler, AHC, 840 N. Lake Shore Dr., Chicago 60611)

7-11. **Atomic Physics**, 3rd intern. conf., Boulder, Colo. (S. J. Smith, Joint Inst. for Lab. Astrophysics, Univ. of Colorado, Boulder 80302)

7-11. **Engineering in Medicine—Automatic Cytology**, Engineering Foundation, Saxtons River, Vt. (EF Confs., United Engineering Center, 345 E. 47 St., New York 10017)

7-11. **Fundamentals of Transport Phenomena in Porous Media**, 2nd symp., Intern. Assoc. for Hydraulic Research and Intern. Soc. of Soil Science, Guelph, Ont., Canada. (D. E. Elrick, Dept. of Soil Science, Univ. of Guelph, Guelph)

7-14. **Biophysics Congr.**, 4th intern., Intern. Union for Pure and Applied Biophysics, Moscow, U.S.S.R. (L. P. Kayushin, Profsoyuznaya 7, Moscow)

9-11. **Cryogenic Engineering Conf.**, Boulder, Colo. (L. K. Armstrong, National Bureau of Standards, Boulder 80302)

9-11. **Reindeer/Caribou Symp.**, 1st intern., Inst. of Arctic Biology and Alaska Cooperative Wildlife Research Unit, Fairbanks, Alaska. (R. G. White, IAB, Univ. of Alaska, Fairbanks 99701)

10-17. **International Geographical Union**, 22nd intern. congr., Montreal, P.Q., Canada. (J. K. Fraser, IGU, P.O. Box 1972, Ottawa, Ont., Canada)

11-13. **Marine Technology Soc.**, Washington, D.C. (R. W. Niblock, MTS, Suite 412, 1730 M St., NW, Washington, D.C. 20036)

12. **American Soc. of Naturalists**, Minneapolis, Minn. (Miss J. B. Spofford, Dept. of Biology, Univ. of Chicago, Chicago, Ill. 60637)

13-17. **Biology of the Seal**, intern. symp., Intern. Council for the Exploration of the Sea, Intern. Commission for the Northwest Atlantic Fisheries, and Intern. Biological Programme, Guelph, Ont., Canada. (K. Ronald, College of Biological Sciences, Univ. of Guelph, Guelph, Ont.)

13-17. **Biometric Soc.**, Eastern North American Region, Montreal, P.Q., Canada. (F. B. Cady, Biometric Unit, 337 Warren Hall, Cornell Univ., Ithaca, N.Y. 14850)

13-18. **Engineers' Role in Today's Society**, Engineering Foundation, Henniker, N.H. (EF Confs., United Engineering Center, 345 E. 47 St., New York 10017)

13-18. **Improving Indoor Air Quality**,

Engineering Foundation, South Berwick, Maine. (EF Confs., United Engineering Center, 345 E. 47 St., New York 10017)

13-19. International Congr. of **Psychology**, 20th, Tokyo, Japan. (Science Council of Japan, 22-34 Roppongi 7 chome Minato-ku, Tokyo 106)

14-16. Association for **Computing Machinery**, Boston, Mass. (C. Giltner, Lincoln Lab., Massachusetts Inst. of Technology, P.O. Box 73, Lexington 02173)

14-17. **Biometric Soc.**, Western North American Region, Montreal, P.Q., Canada (J. W. Kuzma, Dept. of Biostatistics, Loma Linda Univ., Loma Linda, Calif. 92354)

14-17. American **Statistical Assoc.**, Montreal, P.Q., Canada. (J. W. Lehman, ASA, 806 15th St., NW, Washington, D.C. 20005)

14-18. Australian and New Zealand Assoc. for the **Advancement of Science**, 44th cong., Sydney, Australia. (Mrs. D. Stretton, Dept. of Physiology, Univ. of Queensland, St. Lucia 4067, Brisbane, Australia)

14-18. Symposium on **Cosmochemistry**, Intern. Assoc. of Geochemistry and Cosmochemistry, Cambridge, Mass. (A. G. W. Cameron, Belfer Graduate School of Science, Yeshiva Univ., Amsterdam Ave. and 186 St., New York 10033)

14-18. American **Ornithologists' Union**, Grand Forks, N.D. (R. C. Banks, Bird and Mammal Labs., National Museum of Natural History, Washington, D.C. 20560)

14-18. **Physics and Chemistry of Ice**, intern. symp., Royal Soc. of Canada, Ottawa, Ont., Canada. (M. K. Ward, National Research Council, Ottawa K1A 0R6)

14-18. **Social Science and Medicine**, 3rd intern. conf., Elsinore, Denmark. (P. J. M. McEwan, Center for Social Research, Univ. of Sussex, Falmer, Brighton, BN1 9QN, Sussex, England)

15-17. **Science and Policy in the North**, 23rd Alaska science conf., Alaska Div., American Assoc. for the Advancement of Science, Fairbanks. (G. S. Harrison, Inst. of Social, Economic and Government Research, Univ. of Alaska, College 99701)

15-17. Society for the **Study of Amphibians and Reptiles** (15th annual) and **Herpetologists** League, Lake Texoma, Okla. (V. H. Hutchinson, Dept. of Zoology, Univ. of Oklahoma, Norman 73069)

15-18. American **Astronomical Soc.**, East Lansing, Mich. (H. M. Gurin, AAS, 211 FitzRandolph Rd., Princeton, N.J. 08540)

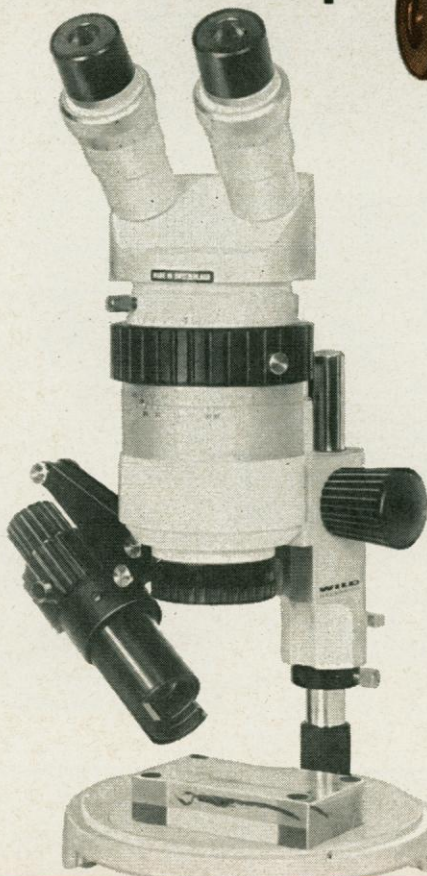
15-18. **Primatology**, 4th intern. congr., Intern. Primatological Soc., Portland, Ore. (W. Montagna, Oregon Regional Primate Research Center, 505 NW 185 Ave., Beaverton 97005)

15-25. International **Cartographic Assoc.**, 4th general assembly, Montreal, P.Q., Canada. (B. Timmermans, Public Relations and Information Services, Dept. of Energy, Mines, and Resources, Ottawa, Ont., Canada)

16-18. **Radiationless Processes in Gas-Phase Molecules**, intern. conf., Boulder, Colo. (W. C. Lineberger, Joint Inst. for Laboratory Astrophysics, Univ. of Colorado, Boulder 80302)

16-19. **Strontium Metabolism**, 2nd intern. conf., Glasgow, Scotland. (J. M. A.

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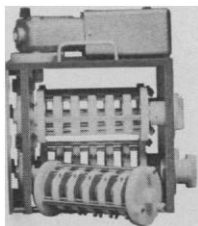
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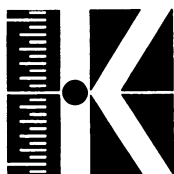
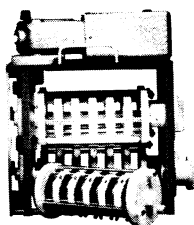


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Lenihan, Dept. of Clinical Physics and Bioengineering, Western Regional Hospital Board, 11 W. Graham St., Glasgow G4 9LF)

17-19. American Acad. of **Clinical Toxicology**, Chicago, Ill. (E. G. Comstock, AACT, P.O. Box 2565, Houston, Tex. 77001)

17-22. **Jaw Tumors/Baro Pathology**, Intern. Soc. of Geographical Pathology, 11th conf., Newcastle upon Tyne, England. (I. Rannie, Sutherland Dental School, Newcastle upon Tyne)

20-22. American Acad. of **Physical Medicine and Rehabilitation**, Denver, Colo. (C. C. Herold, AAPMR, 30 N. Michigan Ave., Chicago, Ill. 60602)

20-23. **Food-Drugs from the Sea**, 3rd conf., Kingston, R.I. (E. Miller, Hoffmann-La Roche, Inc., Nutley, N.J.)

20-25. American Assoc. of **Clinical Chemists**, Cincinnati, Ohio. (D. A. H. Roethal, AACC, 1155 16th St., NW, Washington, D.C. 20006)

20-25. **Combustion**, 14th intern. symp., Combustion Inst., University Park, Pa. (CI, 986 Union Trust Bldg., Pittsburgh, Pa. 15219)

20-25. Federation of **European Biochemical Socs.**, 8th annual, Amsterdam, Netherlands. (FEBS-BIOCHEM 72, RAI Gebouw N.V., Europaplein 8, Amsterdam)

20-26. **Low Temperature Physics**, 13th intern. conf., Intern. Union of Pure and Applied Physics, Boulder, Colo. (D. G. McDonald, National Bureau of Standards, Boulder 80302)

21-23. **Polymer Characterization**, 2nd intern. symp., Battelle Memorial Inst., Seattle, Wash. (F. A. Sliemers, Battelle, 505 King Ave., Columbus, Ohio 43201)

21-24. International Assoc. of **Milk, Food and Environmental Sanitarians**, 59th annual, Milwaukee, Wis. (H. H. Thomasson, IAMFE, Shelbyville, Ind. 46176)

21-25. **Cloud Physics**, intern. conf., American Meteorological Soc., London, England. (AMS, 45 Beacon St., Boston, Mass.)

21-25. **Extended Atmospheres and Circumstellar Matter in Spectroscopic Binary Systems**, Intern. Astronomical Union, Victoria, B.C., Canada. (K. O. Wright, Dominion Astrophysical Observatory, R.R. 7, Victoria)

21-25. **Histochemistry and Cytochemistry**, 4th intern. congr., Kyoto, Japan. (K. Ogawa, Dept. of Anatomy, Kansai Medical School, Moriguchi, Osaka, Japan)

21-25. International Conf. on **Hydrogen Bonding**, Chemical Inst. of Canada, Ottawa, Ont. (M. K. Ward, Div. of Chemistry, National Research Council of Canada, Ottawa K1A 0R6)

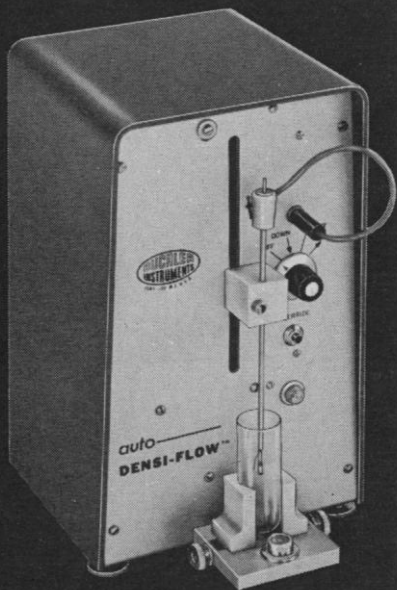
21-25. **Liquid Crystal**, 4th intern. conf., Kent, Ohio. (G. H. Brown, Liquid Crystal Inst., Kent State Univ., Kent 44240)

21-25. International Congr. on **Photobiology**, 6th, Bochum, Germany. (H. Tronnier, Universitäts-Hautklinik, D-7400 Tübingen, Germany)

21-25. **Science of Catalysis**, 5th intern. congr., North American Catalysis Soc., Miami Beach, Fla. (V. Haensel, Universal Oil Products Co., 30 Algonquin Rd., Des Plaines, Ill. 60016)

21-25. **Underwater Physiology**, 5th symp., Undersea Medical Soc., Freeport, British Bahamas. (C. J. Lambertsens, Inst.

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for Environmental Medicine, Univ. of Pennsylvania, Philadelphia, Pa. 19104)

21-26. **Theoretical and Applied Mechanics**, 13th intern. congr., Moscow, U.S.S.R. (G. K. Mikhailov, Leningradskii Prospekt 7, Moscow A-40)

21-30. **International Geological Congr.**, 24th, Montreal, P.Q., Canada. (Secretary-General, 24th Intern. Geological Congr., 601 Booth St., Ottawa 4, Ont., Canada)

22-26. **International Soc. on Thrombosis and Haemostasis**, 3rd congr., Washington, D.C. (H. R. Roberts, Box 630, Chapel Hill, N.C. 27514)

22-30. **International Congr. of Entomology**, 14th, Canberra, Australia. (C. N. Smithers, Australian Museum, College St., Sydney 2000)

23-25. **Aspects of Biological Gerontology**, 2nd annual Rocky Mountain symp. on aging, Fort Collins, Colo. (Office of Conferences and Institutes, Room 178, Student Center, Colorado State Univ., Fort Collins 80521)

23-25. **Chemical Education Conf.**, Div. of Chemical Education, American Chemical Soc., South Hadley, Mass. (Miss A. J. Harrison, Dept. of Chemistry, Mt. Holyoke College, South Hadley 01075)

23-25. **American Congr. of Rehabilitation Medicine**, Denver, Colo. (C. C. Herold, ACRM, 30 N. Michigan Ave., Chicago, Ill. 60602)

25-27. **Rural Sociological Soc.**, Baton Rouge, La. (H. M. Sauer, Dept. of Rural Sociology, South Dakota State Univ., Brookings 57006)

27. **Genetics Soc. of America**, Minneapolis, Minn. (M. W. Shaw, Room 523, Dept. of Biology, M. D. Anderson Hospital and Tumor Inst., Houston, Tex. 77025)

27-30. **American Inst. of Chemical Engineers**, 73rd natl., Minneapolis, Minn. (AICE, 345 E. 47 St., New York 10017)

27-1. **American Inst. of Biological Sciences**, Minneapolis, Minn. (J. R. Olive, AIBS, 3900 Wisconsin Ave., NW, Washington, D.C. 20016)

27-1. **American Chemical Soc.**, New York, N.Y. (F. T. Wall, ACS, 1155 16th St., NW, Washington, D.C. 20036)

27-1. **General and Molecular Genetics**, Genetics Soc. of America, 41st annual, Minneapolis, Minn. (P. Snustad, Dept. of Genetics, 301 Snyder Hall, Univ. of Minnesota, St. Paul 55101)

27-1. **American Soc. for Horticultural Science**, St. Paul, Minn. (C. Blackwell, ASHS, P.O. Box 109, 914 Main St., St. Joseph, Mich. 49085)

27-1. **Society for Industrial Microbiology**, St. Paul, Minn. (W. M. Stark, Lilly Research Labs., Eli Lilly & Co., Indianapolis, Ind. 46206)

27-1. **American Physiological Soc.**, University Park, Pa. (R. G. Daggs, APS, 9650 Rockville Pike, Bethesda, Md. 20014)

27-1. **American Soc. of Plant Physiologists**, Minneapolis, Minn. (W. H. Klein, Smithsonian Radiation Biology Lab., 12441 Parklawn Dr., Rockville, Md. 20852)

27-1. **American Soc. of Plant Taxonomists**, Minneapolis, Minn. (D. M. Porter, Missouri Botanical Garden, 2315 Tower Grove Ave., St. Louis 63110)

27-1. **Society of Protozoologists**, Minneapolis, Minn. (D. M. Hammond, Zoology Dept., Utah State Univ., Logan 84321)

27-1. **World Congr. of Rehabilitation International**, 12th intern., Sydney, Australia. (Rehabilitation International, 219 E. 44 St., New York 10017)

27-1. **Society for the Study of Evolution**, Minneapolis, Minn. (D. L. Jameson, Dept. of Biology, Univ. of Houston, Houston, Tex. 77004)

27-1. **American Soc. of Zoologists**, Minneapolis, Minn. (G. Sprugel, Jr., Illinois Natural History Survey, 179 Natural Resources Bldg., Urbana 61801)

27-2. **International Soc. of Electrochemistry**, 23rd congr., Stockholm, Sweden. (G. Wranglén, Royal Inst. of Technology, 100 44 Stockholm 70)

27-2. **Transfusion Congr.**, American Assoc. of Blood Banks and Intern. Soc. of Blood Transfusions, Washington, D.C. (AABB, Suite 401, 915 19th St., NW, Washington, DC. 20006)

28. **American Fern Soc.**, Minneapolis, Minn. (R. L. Hauke, Dept. of Botany, Univ. of Rhode Island, Kingston 02881)

28-29. **Use of Tracers to Study Heterogeneous Catalysis**, intern. conf., New York Acad. of Sciences, New York, N.Y. (W. Likely, NYAS, 2 E. 63 St., New York 10021)

28-30. **Mathematical Assoc. of America**, Hanover, N.H. (H. Adler, Dept. of Mathematics, Univ. of California, Davis 95616)

28-31. **American Sociological Assoc.**, New Orleans, La. (N. J. Demerath, ASA, 1001 Connecticut Ave., NW, Washington, D.C. 20036)

28-1. **Advances in Microbial Engineering**, 1st intern. symp., Mariánské Lázně, Czechoslovakia. (Microbiological Inst., Czechoslovak Acad. of Sciences, Budějovická 1083, Prague 4)

28-1. **Biochemistry of Lipids**, 15th intern. conf., The Hague, Netherlands. (B. H. Tritten, Unilever Research, P.O. Box 114, Vlaardingen, Netherlands)

28-1. **Cybernetic Modeling of Adaptive Organizations**, Science Committee, North Atlantic Treaty Organization, Porto, Portugal. (D. Howland, College of Administrative Science, Ohio State Univ., 1775 S. College Rd., Columbus 43210)

28-1. **Electron Microscopy Soc. of America**, Los Angeles, Calif. (G. C. Cocks, Olin Hall, Cornell Univ., Ithaca, N.Y. 14850)

28-2. **Antibiotics: Biosynthesis and Function**, EUCHEM conf., Aarhus, Denmark. (J. Hedegaard, Dept. of Microbiology, Polytechnical Univ., DK 2800 Lyngby, Copenhagen, Denmark)

28-3. **Phycological Soc. of America**, Minneapolis, Minn. (Miss P. L. Walne, Dept. of Botany, Univ. of Tennessee, Knoxville 37916)

29-1. **Discharges and Electrical Insulation in Vacuum**, 5th intern. symp., Poznan, Poland. (A. S. Denholm, Energy Sciences Inc., 111 Terrace Hall Ave., Burlington, Mass. 01803)

30-2. **Status of Physicians and Paramedical Staff**, intern. conf., Bratislava, Czechoslovakia. (Czechoslovak Medical Soc., Michiewiczova 18, Bratislava)

31-3. **High-Resolution Infrared Spectroscopy**, 2nd intern., Prague, Czechoslovakia. (Inst. of Physical Chemistry, Czechoslovak Acad. of Sciences, Máchova 7, Prague)