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zation for Tropical Studies, Inc., which offers this course, was established to foster education and research directed toward the expansion of knowledge of tropical environments. The program is made possible largely through grant funds from the National Science Foundation. Students pay no tuition and are provided with living expenses and round-trip transportation to Costa Rica. Enrollment is limited and selection is competitive. Information on course and application forms should be available in all departments offering graduate programs in geography. *Deadline for applications: 15 December.* (Organization for Tropical Studies, North American Office, P.O. Box 8092, University of Miami, Coral Gables, Florida 33124)

**Biomedical and Clinical Applications of Gas Chromatography**, St. Louis, Mo., 5-8 November. The main subject areas are special requirements for biomedical gas chromatography; injector, column, and detector technology and performance; automated gas chromatography in routine analysis and radio-gas chromatography of labeled substances; state-of-the-art of the gas chromatographic analysis of fatty acids, amino acids, steroids, urinary acids, carbohydrates, lipids, terpenes, and others, including sample preparation and formation of volatile derivatives; selection of equipment, setting up, operation, and economics of a biomedical gas chromatography laboratory. (Dr. Ram L. Levy, Division of Continuing Education, Box 1048, Washington University, St. Louis, Mo. 63130)

**Electronic Methods of Precision Positioning at Sea**, Los Angeles, Calif., 10-14 November. Intended for civil, petroleum, electronic, and ocean engineers, oceanographers, marine geologists, hydrographers, and scientists. The purpose of the course is to describe positioning systems available to those working in the sea: theory, operation, methods, and expected performance and to aid those with marine engineering problems in selecting navigation systems best suited to their needs. *Fee: \$275.* (P.O. Box 24902, Engineering and Physical Sciences Extension, University Extension, University of California, Los Angeles 90024)

**Use of Operational Amplifiers in Instrumentation**, Washington, D.C., 10-12 November. Fundamentals will be stressed in order to develop the student's ability to use operational amplifiers in his work and to learn that these useful devices are easy to use and can be practically applied even though the user has little or no knowledge of electronics. *Fee: \$85.* (Dr. Richard G. McKee, McKee-Pederson Instruments, P.O. Box 323, Danville, California 94526)

## Forthcoming Events

### October

23-25. **American Astronautical Soc.**, Las Cruces, N.M. (J. Penwarden, New Mexico State Univ., Las Cruces)

24-26. **Orton Soc.**, 20th annual, New York, N.Y. (V. A. Graff, The Society, 15 Claremont Ave., New York 10027)

25-29. **American Soc. of Anesthesiologists**, San Francisco, Calif. (W. S. Marinko, 515 Busse Highway, Park Ridge, Ill. 60608)

25-31. **American Assoc. of Medical Record Librarians**, New York, N.Y. (M. Waterstraat, The Association, 211 E. Chicago Ave., Chicago, Ill. 60611)

26-30. **Society for Industrial and Applied Mathematics**, Anaheim, Calif. (R. K. Windsor, 33 S. 17 St., Philadelphia, Pa. 19103)

27-29. **Interscience Conf. on Antimicrobial Agents and Chemotherapy**, 9th, Washington, D.C. (R. W. Sarber, American Soc. for Microbiology, 1913 Eye St., NW, Washington, D.C. 20006)

25-26. **International Soc. for Homotoxicology and Antihomotoxicological Therapy Symp.**, Baden-Baden, Germany. (F. Doerper, Bertholdstr. 7, 757 Baden-Baden)

27-30. **National Powerplant Mtg.**, Cleveland, Ohio. (W. I. Marble, 2 Pennsylvania Plaza, New York 10001)

27-30. **National Safety Congr. and Exposition**, Chicago, Ill. (H. W. Champlin, The Congress, 425 N. Michigan Ave., Chicago 60611)

29-31. **Symposium on Pharmacology of Selected Drugs Used in Dermatology: Principles of Action and Uses**, New York, N.Y. (P. Merwin, New York Univ. Medical Center, 550 First Ave., New York 10016)

30-3. **Association of American Medical Colleges**, Cincinnati, Ohio. (D. E. Mattson, Div. of Educational Measurement and Research, AAMC, 2530 Ridge Ave., Evanston, Ill. 60201)

31-2. **American Soc. of Criminology**, Columbus, Ohio. (R. M. Susman, ASC, 800 Fourth St., SW, S-610, Washington, D.C. 20024)

### November

2-5. **Atherosclerosis**, 2nd intern. symp., Chicago, Ill. (L. N. Katz, Chicago Heart Assoc., 22 W. Madison St., Chicago 60602)

2-7. **Society of Cosmetic Chemists**, Harriman, N.Y. (A. R. Korte, 521 W. 57 St., New York 10019)

3-4. **Institute of Navigation**, San Diego, Calif. (R. E. Freeman, Inst. of Navigation, Suite 912, 711 14th St., NW, Washington, D.C. 20005)

3-4. **Veterinarians**, 45th annual conf., Columbia, Mo. (F. McCulloch, School of Veterinary Medicine, Univ. of Missouri, Columbia 65201)

3-5. **Engineering Science in Biomedicine**, 7th annual, St. Louis, Mo. (E. Y. Rodin, Dept. of Applied Mathematics and Computer Science, Box 1176, Washington Univ., St. Louis 63130)

3-6. **National Bureau of Standards, 3rd Materials Research Symp.**, Gaithersburg, Md. (R. R. Stromberg, A-307, Polymers Bldg., NBS, Washington, D.C. 20234)

3-7. **American Soc. of Parasitologists**, Washington, D.C. (D. V. Moore, Dept. of Microbiology, Univ. of Texas, Southwestern Medical School, Dallas 75235)

4-7. **Acoustical Soc. of America**, San Diego, Calif. (B. H. Goodfriend, 335 E. 45 St., New York 10017)

5-7. **Pittsburgh Diffraction Conf.**, 27th, Pittsburgh, Pa. (J. H. Scott, U.S. Steel Research Center, Monroeville, Pa. 15146)

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5-8. American **Chemical Soc.**, southeastern regional mtg., Richmond, Va. (H. R. R. Wakeham, Philip Morris Inc., Box 3D, Richmond 23206)

5-8. Federation of Socs. for **Paint Technology**, Chicago, Ill. (R. W. Matlack, 121 S. Broad St., Philadelphia, Pa. 19107)

6-7. National Symp. on **Industrial Robots**, Chicago, Ill. (D. W. Hanify, IIT Research Inst., 10 W. 35 St., Chicago 60616)

6-8. American Soc. of **Cytology**, 17th annual scientific mtg., Chicago, Ill. (W. R. Lang, 7112 Lincoln Dr., Philadelphia, Pa. 19119)

6-8. American **Physical Soc.**, Gainesville, Fla. (W. Seagondollar, Dept. of Physics, North Carolina State Univ., Raleigh 27607)

10-12. **Geological Soc. of America**, Atlantic City, N.J. (R. C. Becker, P.O. Box 1719, Boulder, Colo. 80302)

10-12. **Operations Research Soc. of America**, 36th natl., Miami, Fla. (M. E. Thomas, Dept. of Industrial and Systems Engineering, Univ. of Florida, Gainesville 32601)

10-12. **Paleontological Soc.**, Atlantic City, N.J. (R. L. Langenheim, Jr., Dept. of Geology, Univ. of Illinois, Urbana 61801)

10-14. American College of **Preventive Medicine**, Philadelphia, Pa. (E. A. Piszczek, 6410 N. Leona Ave., Chicago, Ill. 60646)

10-14. American **Public Health Assoc.**, 97th annual, Philadelphia, Pa. (B. F. Mattison, APHA, 1740 Broadway, New York 10019)

10-14. Technical Conf. on **Tin**, 2nd, Bangkok, Thailand. (W. Fox, Intern. Tin Council, Haymarket House, 28 Haymarket, London, S.W.1., England)

11-13. **Neurosurgical Soc.**, 28th annual, Kyoto, Japan. (H. Handa, Dept. of Neurosurgery, Kyoto Univ., Kyoto)

11-14. **Neutrons in Radiobiology Symp.**, Oak Ridge, Tenn. (J. A. Auxier, Oak Ridge National Lab., P.O. Box X, Oak Ridge 37830)

16-19. Association of **Military Surgeons** of the U.S., Washington, D.C. (Brig. Gen. F. E. Wilson, USAR, Executive Director, 1500 Massachusetts Ave., NW, Washington, D.C. 20005)

16-20. American Assoc. of **Blood Banks**, Houston, Tex. (L. J. James, AABB, 30 N. Michigan Ave., Chicago, Ill. 60602)

16-20. **Gulf and Caribbean Fisheries Inst.**, 22nd annual, Miami Beach, Fla. (Executive Secretary, Gulf and Caribbean Fisheries Inst., 10 Rickenbacker Causeway, Miami 33149)

16-20. American Soc. of **Mechanical Engineers**, Los Angeles, Calif. (O. B. Schier, II, United Engineering Center, 345 E. 47 St., New York 10017)

17-19. National **Fire Protection Assoc.**, Denver, Colo. (D. Richardson, The Association, 60 Batterymarch St., Boston, Mass. 02110)

17-21. World **Mental Health Assembly**, Washington, D.C. (P. V. Lemkau, Assembly Chairman, 615 N. Wolfe St., Baltimore, Md. 21205)

18-19. International Federation of **Surgical Colleges**, Buenos Aires, Argentina. (R. S. Johnson-Gilbert, Secretary,

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18-21. **Magnetism and Magnetic Materials**, 15th conf., Philadelphia, Pa. (J. Blakes, Franklin Inst., Research Labs., Philadelphia 19103)

19-21. **Eastern Analytical Symp.**, New York, N.Y. (R. J. Knauer, Advanced Materials Div., Armco Steel Corp., P.O. Box 1697, Baltimore, Md. 21203)

20-21. **Association for the Study of Animal Behaviour**, London, England. (J. Cullen, Psychology Dept., The University, Stirling, England)

20-23. **American Anthropological Assoc.**, New Orleans, La. (C. C. Reining, Suite 112, 3700 Massachusetts Ave., NW, Washington, D.C. 20016)

20-24. **Audio Engineering Soc.**, 37th conv., New York, N.Y. (J. D. Colvin, Room 428, 60 E. 42 St., New York 10017)

21-22. **Clinical Conf.**, 13th annual, Houston, Tex. (J. Brandenberger, M. D. Anderson Hospital & Tumor Inst., Univ. of Texas, Houston 77025)

30-3. **American Acad. for Cerebral Palsy**, Las Vegas, Nev. (G. Solomons, University Hospitals, Iowa City, Iowa 52240)

30-4. **American Nuclear Soc.**, San Francisco, Calif. (O. J. Du Temple, ANS, 244 E. Ogden Ave., Hinsdale, Ill.)

#### December

1-4. **Entomological Soc. of America**, Chicago, Ill. (W. P. Murdoch, Executive Secretary, 4603 Calvert Rd., College Park, Md. 20740)

2-5. **Reticuloendothelial Soc.**, 6th natl., San Francisco, Calif. (E. Dobson, Donner Lab., Univ. of California, Berkeley 94720)

3-5. **International Wire and Cable Symp.**, Atlantic City, N.J. (J. Spergel, U.S. Army Electronics Command, Amsel-K1-EE, Fort Monmouth, N.J. 07703)

3-6. **American Assoc. of Physicists in Medicine**, Chicago, Ill. (J. G. Kereiakes, Radioisotope Lab., Cincinnati General Hospital, Cincinnati, Ohio 45229)

5-6. **Oklahoma Acad. of Science**, Edmond. (J. T. Self, 730 South Oval, Univ. of Oklahoma, Norman 73069)

5-6. **Interferon Symp.**, New York, N.Y. (I. Saulpaugh, New York Heart Assoc., 2 E. 64 St., New York 10021)

5-6. **American Rheumatism Assoc.**, Tucson, Ariz. (M. M. Walsh, ARA, 1212 Avenue of the Americas, New York 10036)

5-7. **American Acad. of Oral Medicine**, New York, N.Y. (B. Tuchman, 200 Central Park South, New York 10019)

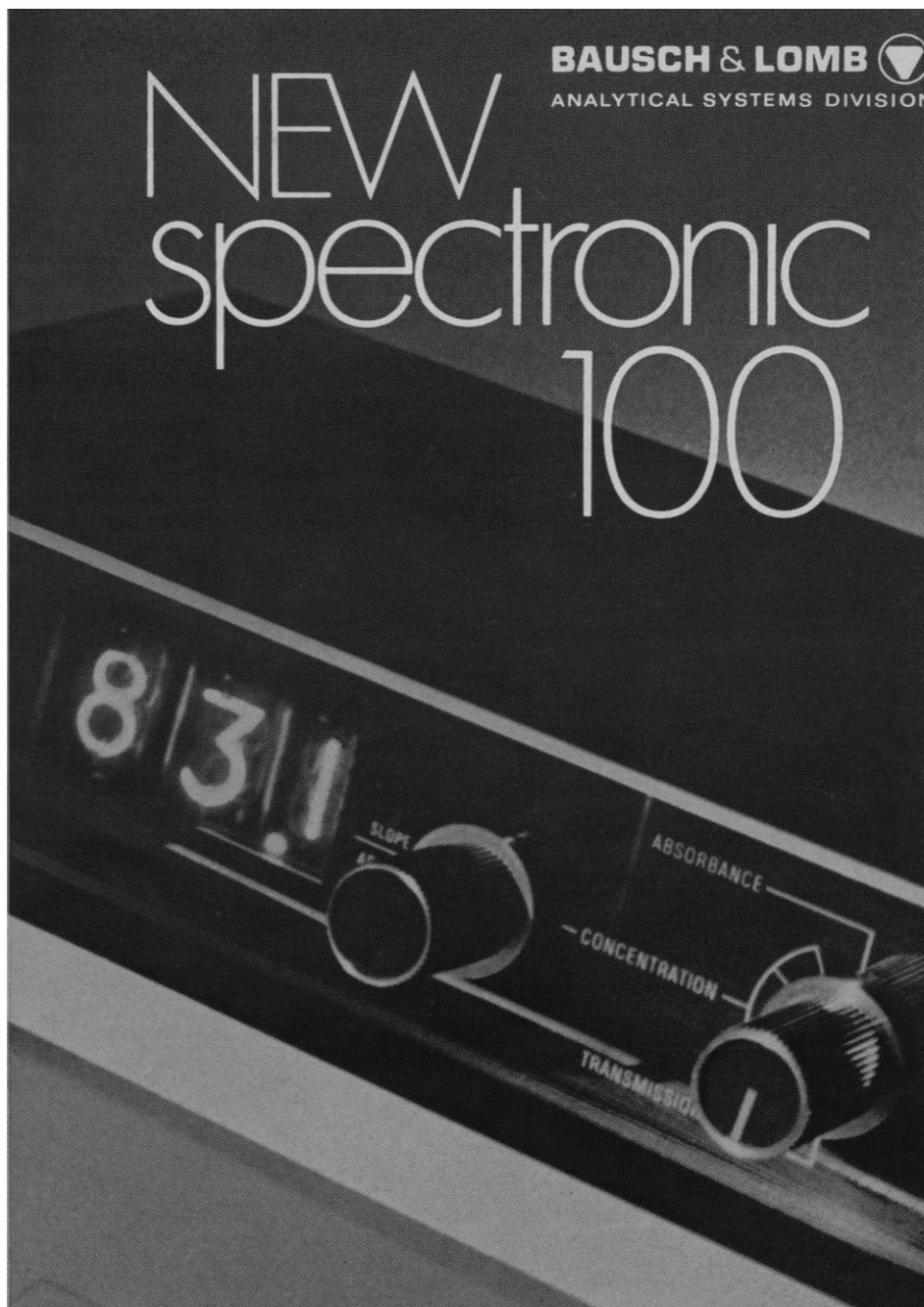
5-7. **American Acad. of Psychoanalysis**, New York, N.Y. (M. Carroll, AAP, 125 E. 65 St., New York 10021)

6-11. **Galaxy Conf. on Adult Education**, Washington, D.C. (E. Sydnor, 900 Silver Spring Ave., Silver Spring, Md. 20910)

7-9. **American Soc. of Hematology**, Cleveland, Ohio. (F. H. Gardner, Presbyterian-Univ. of Pennsylvania Medical Center, Philadelphia 19104)

7-12. **American Soc. for Testing and**

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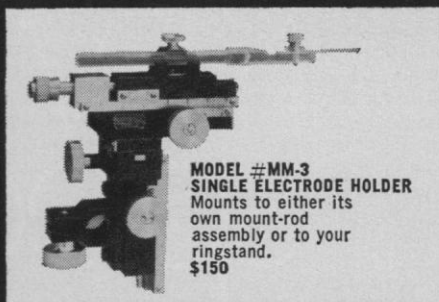
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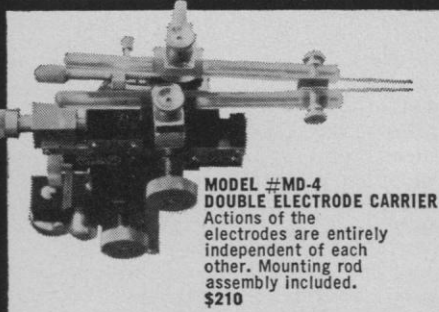
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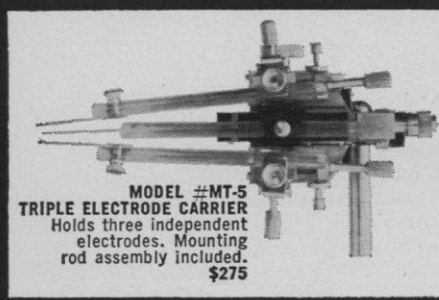
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Materials, Cincinnati, Ohio. (T. A. Marshall, Jr., ASTM, 1916 Race St., Philadelphia, Pa. 19103)

8-10. **Applications of Simulation**, 3rd conf., Los Angeles, Calif. (P. J. Kiviat, RAND Corp., 1700 Main St., Santa Monica, Calif. 90406)

8-10. **Circuit Theory**, intern. symp., San Francisco, Calif. (B. J. Leon, School of Electrical Engineering, Cornell Univ., Ithaca, N.Y. 14850)

8-10. **National Electronics Conf. and Exhibition**, 25th, Chicago, Ill. (R. J. Napolitan, NEC, Oakbrook Executive Plaza #2, 1211 W. 22 St., Oak Brook, Ill. 60521)

8-10. **Southern Surgical Assoc.**, Hot Springs, Va. (D. C. Sabiston, Jr., Duke Univ. Medical Center, Durham, N.C. 27706)

8-11. **Oak Ridge Associated Universities Symp. in Medicine**, 12th, Oak Ridge, Tenn. (R. M. Kniseley, Medical Div., Oak Ridge Associated Universities, Oak Ridge 37830)

11-12. **Conference on Holography and the Computer**, Houston, Tex. (J. A. Jordan, Jr., IBM, Houston Scientific Center, 6900 Fannin St., Houston 77025)

12-14. **American Psychoanalytic Assoc.**, New York, N.Y. (H. Fischer, 1 E. 57 St., New York 10022)

14-18. **American Assoc. of Hospital Pharmacists**, Washington, D.C. (J. A. Oddis, AAHP, 4630 Montgomery Ave., Bethesda, Md. 20014)

15-18. **American Geophysical Union**, San Francisco, Calif. (W. E. Smith, AGU, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

17-19. **Symposium on Infections and Immunosuppression in Sub-Human Primates**, Rijswijk, Netherlands. (H. Balner, Radiobiological Institute TNO, Lange Kleiweg 151, Rijswijk Z.H., Netherlands)

18-20. **International Symp. on Computer and Information Science (COINS-69)**, Miami Beach, Fla. (J. T. Lou, Univ. of Florida, Gainesville 32601)

26-30. **Sigma Delta Epsilon**, Boston, Mass. (M. Myers, 6234 Mary Lane Dr., San Diego, Calif. 92115)

26-31. **American Assoc. for the Advancement of Science**, 136th mtg., Boston, Mass. (Meetings Manager, 1515 Massachusetts Ave., NW, Washington, D.C. 20005)

26-31. **American Soc. of Naturalists**, Boston, Mass. (B. H. Judd, Dept. of Zoology, Univ. of Texas, Austin 78712)

26-31. **Society of Protozoologists**, Boston, Mass. (M. Hammond, Dept. of Zoology, Utah State Univ., Logan 84321)

26-31. **Scientific Research Soc. of America**, Boston, Mass. (C. A. Walker, SRSA, 155 Whitney Ave., New Haven, Conn. 06510)

26-31. **Sigma Pi Sigma**, Boston, Mass. (C. G. Shugart, Society of Physics Students, State Univ. of New York, Stony Brook 11790)

26-31. **Society for the Study of Evolution**, Boston, Mass. (D. L. Jameson, Dept. of Biology, Univ. of Houston, Houston, Tex. 77004)

26-31. **American Soc. of Zoologists**, Boston, Mass. (J. R. Shaver, Dept. of Zoology, Michigan State Univ., East Lansing 48823)