

Petroleum Engineers, New York, N.Y. (H. N. Appleton, 345 E. 47 St., New York 10017)

18-19. American **Otological Soc.**, San Juan, P.R. (W. H. Bradley, 1100 E. Genesee St., Syracuse, N.Y.)

18-20. Thermodynamics of **Ceramic Systems**, mtg., London, England. (J. P. Roberts, British Ceramics Soc., Houldsworth School of Applied Science, Univ. of Leeds, Leeds 2, England)

18-20. Technical **Microbiology**, symp., Berlin, Germany. (S. Windisch, Inst. für Gärungsgewerbe, Seestrassse, 13, 1 Berlin 65)

18-20. **Structures and Materials**, 7th conf., Cocoa Beach, Fla. (R. W. Leonard, NASA-Langley Research Center, Mail Stop 188C, Langley Station, Hampton, Va.)

18-21. **Aerospace Medical Assoc.**, 37th annual scientific mtg., Las Vegas, Nev. (C. A. Berry, Chief of Center Medical Programs, NASA-Manned Spacecraft Center, Houston, Tex. 77058)

18-21. International **Scientific Radio Union**, U.S. natl. committee, mtg., Washington, D.C. (USNC-URSI, 2101 Constitution Ave, NW, Washington, D.C.)

18-21. **Tectonic Levels in the Earth's Crust**, intern. symp., Neuchatel, Switzerland. (J.-P. Schaer, Dept. of Geology, University, 11 rue Emile Argand, 200 Neuchatel)

18-22. American Assoc. of **Corrosion Engineers**, 22nd annual mtg., Miami Beach, Fla. (N. E. Hamner, The Association, 980 M&M Bldg., Houston, Tex.)

18-22. Applications of **Liquid Fuels**,

conf., Torquay, England. (Inst. of Fuel, 18 Devonshire St., Portland Pl., London, W.1, England)

18-22. American College of **Physicians**, New York, N.Y. (E. C. Rosenow, Jr., 4200 Pine St., Philadelphia 4, Pa.)

19-22. American **Geophysical Union**, 47th annual mtg., Washington, D.C. (W. E. Smith, AGU, 1145 19th St., NW, Washington, 20036)

18-23. International Soc. for **Photogrammetry**, technical commissions, Munich, Germany. (G. Krauss, Deutsche Gesellschaft für Photogrammetrie, Waasmstr. 19-21, Bad Godesberg, Germany)

19-21. **Frequency Control**, 20th annual symp., U.S. Army Electronics Command, Atlantic City, N.J. [Director, Electronics Components Laboratory, U.S. Army Electronics Command, Attn: AMSEL-KT-ST (M. F. Timm), Fort Monmouth, N.J. 07703]

19-22. **Microwave Communications**, 3rd colloquium, Budapest, Hungary. (Valko Peterne, Szabadsag ter 17, Budapest)

19-23. **Scientific and Technical Books and Journals**, 2nd intern. exhibition, Paris, France. (F. Retailliau, Intern. Exhibition of Scientific and Technical Books and Journals, 117 Blvd. St. Germain, Paris 6)

20-22. Institute of **Electrical and Electronics Engineers**, southwestern conf., Dallas, Tex. (R. Carrel, Collins Radio Co., Dallas 75207)

20-22. American **Laryngological, Rhinological, and Otological Assoc.**, San Juan, P.R. (V. R. Alfaro, 917 20th St., NW, Washington, D.C. 20006)

20-22. **Magnetics**, 4th intern. conf. (INTERMAG), Stuttgart, Germany. (E. W. Pugh, I.B.M. Corp., 1000 Westchester Ave., White Plains, N.Y.)

20-23. Application of **Physicochemical Methods in Chemical Analysis**, conf., Budapest, Hungary. (M. K. Egyesülete, Szabadsag ter 17, Budapest 5)

20-23. **Solar Energy Soc.**, 2nd annual mtg., Boston, Mass. (F. Edlin, Solar Energy Soc., Arizona State Univ., Tempe 85281)

21-22. **Space Navigation**, natl. mtg., Boston, Mass. (E. S. Keats, Westinghouse Electric Corp., Box 1897, Baltimore, Md. 21203)

21-23. Ohio **Acad. of Science**, 75th annual mtg., Columbus. (J. H. Melvin, 505 King Ave., Columbus 43201)

21-23. Southwestern **Psychological Assoc.**, 13th annual conv., Arlington, Tex. (C. Cleland, 2104 Meadowbrook Dr., Austin, Tex.)

21-23. West Virginia **Acad. of Science**, Institute. (J. B. Hickman, West Virginia Univ., Morgantown 26506)

22. **Computer Aided Basic Research**, symp., Hoboken, N.J. (I. Flores, Electrical Engineering Dept., Stevens Inst., Hoboken 07030)

22. Illinois **Acad. of Science**, Illinois State Univ., Normal. (N. D. Levine, Univ. of Illinois, Urbana)

22-23. National Council of **Teachers of Mathematics**, Greeley, Colo. (J. D. Gates, 1201 16th St., NW, Washington, D.C. 20036)

23-24. American **Laryngological Assoc.**, San Juan, P.R. (L. Richards, 12 Clovelly Rd., Wellesley Hills, Mass.)

24. Society for **Clinical Ecology**, 1st annual mtg., Chicago, Ill. (T. G. Randolph, Human Ecology Research Foundation, 720 N. Michigan Ave., Chicago 11, Ill.)

24-26. American Assoc. of **Colleges of Pharmacy**, Dallas, Tex. (C. W. Bliven, 1507 M St., NW, Washington, D.C. 20005)

24-27. American Soc. of **Abdominal Surgeons**, Chicago, Ill. (B. F. Alfano, 663 Main St., Melrose 76, Mass.)

24-27. American **Oil Chemists' Soc.**, Los Angeles, Calif. (C. H. Hauber, The Society, 35 E. Wacker Dr., Chicago, Ill. 60601)

24-28. **Infectious Pathology**, 4th intern. congr., Stuttgart, Germany. (G. Hoffman Hugstetterstr. 55, 78 Friburg im Briesgau, Germany)

24-29. American College of **Allergists**, 22nd annual congr., Chicago, Ill. (J. D. Gillespie, 2141 14th St., Boulder, Colo. 80302)

24-29. American Soc. of **Hospital Pharmacists**, annual mtg., Dallas, Tex. (J. A. Oddis, 2215 Constitution Ave., NW-Washington, D.C. 20037)

24-29. American **Pharmaceutical Assoc.**, Dallas, Tex. (W. S. Apple, 2215 Constitution Ave., NW, Washington, D.C. 20037)

25-27. **Antidepressant Drugs**, symp., Milan, Italy. (S. Garattini, Inst. di Ricerche Farmacologiche "Mario Negri, Via Eritrea, 62, Milan)

25-27. **National Acad. of Sciences**, 103rd annual mtg., Washington, D.C. (Home Secretary, NAS, 2101 Constitution Ave., NW, Washington, D.C. 20418)

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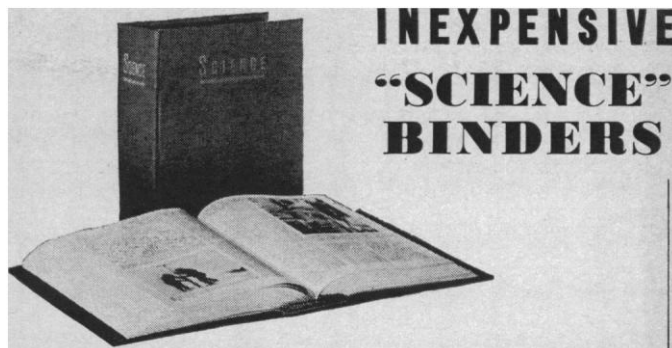
The second must have enjoyed some solid experience in market information-gathering and analysis.

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**Electrophysiologist/Neurophysiologist.** Two years of medical school; Ph.D. physiological psychology. CNS drug administration. Research position. T. D. Langley, Department of Psychology, University of Delaware, Newark, Delaware. X

**Embryologist, Developmental Physiologist, Ph.D.,** research in chemical differentiation, immunology, teratogenesis. Teaching experience. Academic position desired. Box 56, **SCIENCE**.

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**Predoctoral and Postdoctoral Fellowships** available in broad spectrum Toxicology Program. Chemical, plant, animal science, and aquatic field. Write Dr. D. A. Greenwood, Interdepartmental Curriculum in Toxicology, Utah State University, Logan, Utah 84321 for full information.

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## BOOKS AND MAGAZINES

New AAAS Symposium Volume:

## ENVIRONMENTAL VARIABLES IN ORAL DISEASE

Editors, Seymour J. Kreshover and F. J. McClure 328 pp., illus., bibliog., index, February 1966. Price: \$8.75. AAAS members' cash orders: \$7.75.

Recent research on the role of environmental factors in oral disease is reported in this collection of papers from a symposium held at the AAAS meeting in Montreal, December 1964.

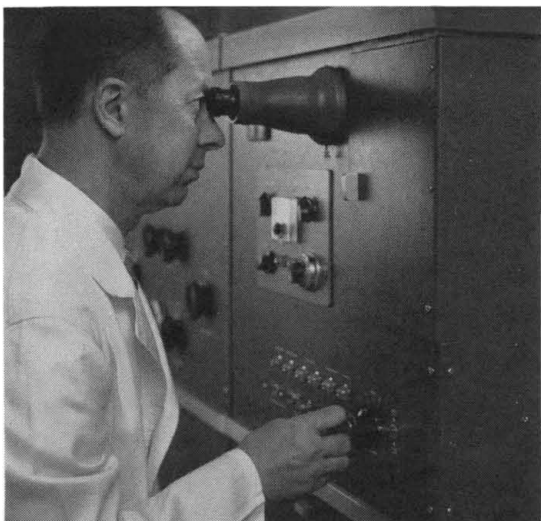
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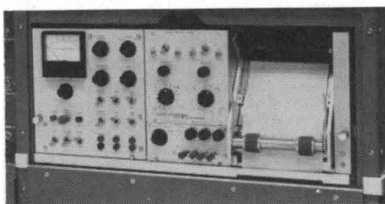


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## ANALYTICAL ULTRACENTRIFUGE

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### The Photoelectric Scanner



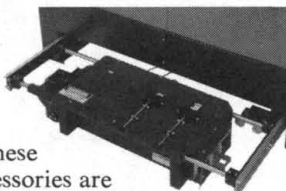
The Scanner looks at the analytical cell through the absorption optical system during centrifugation and, almost instantaneously, translates measures of optical density into chart-recorded curves. Integral and derivative curves are recorded simultaneously, and calibration steps are traced out before each scan. Thus the investigator is freed from the camera, and the developing and handling of film—and has the advantage of seeing what is happening in the cell as it happens.

Since the Scanner utilizes the split-beam photometry principle, double as well as single sector cells can be used with precise results, and the Scanner can also automatically subtract solvent reading in one sector from sample-solvent reading in the other sector to obviate baseline runs. Wavelengths are selectable from 440

m $\mu$  to 236 m $\mu$  and may be changed during a run.

Several applications of direct scanning were reported last year; in one, an association-dissociation study by Gerhart and Schachman (*Biochemistry* 4, 1054), the authors were able to distinguish the catalytic and regulatory protein subunits of aspartate transcarbamylase. Direct scanning was used to follow the binding of 5-bromocytidine triphosphate to separated subunits of the enzyme and the reconstituted enzyme of the same sample.

### The Monochromator and High Intensity Lightsource



While these two accessories are essential to operation of the Scanner, they can also be utilized independently to add to the versatility of the highly discriminating absorption optical system. The Monochromator provides a selection of wavelengths from 440 m $\mu$  to 265 m $\mu$  and permits changes in wavelength during a run. It is therefore possible to use lower concentrations, through choice of an appropriate wavelength, and to detect components in the sample whose absorption peaks

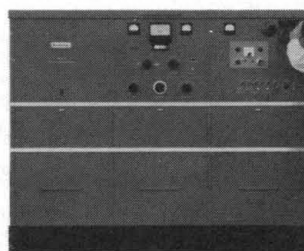
are at different wavelengths. In itself the Monochromator is primarily for sedimentation equilibrium work. The High Intensity Lightsource provides much more intense monochromatic light to reduce exposure times and facilitate sedimentation velocity studies. It also extends the range of usable wavelengths down to 236 m $\mu$ .

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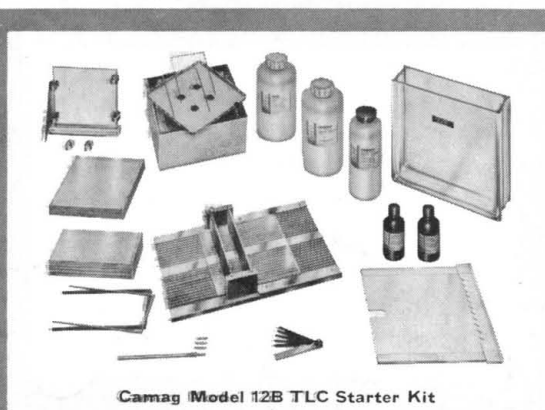
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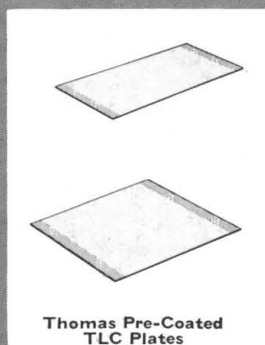
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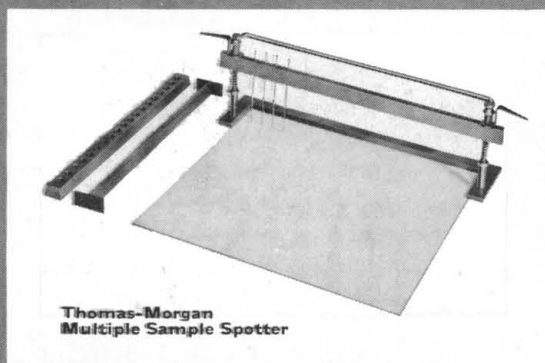
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