

manufacturers, as well as the local firms. Because of the value of this program, it is hoped to be repeated in an expanded form.

Also, as a sign of its interest in the teaching of science to high school pupils, the Academy held a panel discussion on the topic "The Academy and high school Science." A number of high school science teachers and pupils from schools in Uganda were invited to lectures presented by members of the University and by the UNESCO Science expert from Dar es Salaam. Discussions centered around the current status of science and the efforts being made in East Africa to present it with improved scientific techniques. P. E. Vernon (University of London) discussed methods of selection for secondary education.

At the Annual General Meeting, the following persons were all reelected: W. K. Chagula (University College, Dar es Salaam), president; Thomas R. Odhiambo (University College, Nairobi), secretary; B. A. Ogot (University College, Nairobi), treasurer; and R. S. Odingo (University College, Nairobi), assistant secretary. Reuben J. Olemba (Makerere University College) was elected editor of the Academy. J. D. Rubadiri (Makerere University College) was named the new chairman of the Research and Studentships Committee.

The opening address and papers presented at the general session will appear in a special publication of the Academy. The Presidential Foundation Lecture and the first Distinguished Lecture will be the subjects of two special pamphlets issued by the Academy. Papers presented in the three disciplinary sessions (physical and chemical sciences, biological sciences, and the arts and social sciences) will be published separately as *Proceedings* of the Fourth Symposium.

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Forthcoming Events

April

7-9. American Psychosomatic Soc., 24th annual mtg., New Orleans, La. (The Society, 265 Nassau Rd., Roosevelt, N.Y. 11575)

7-9. American Soc. of Internal Medicine, annual, San Francisco, Calif. (A. V. Whitehall, 3410 Geary Blvd., San Francisco 94118)

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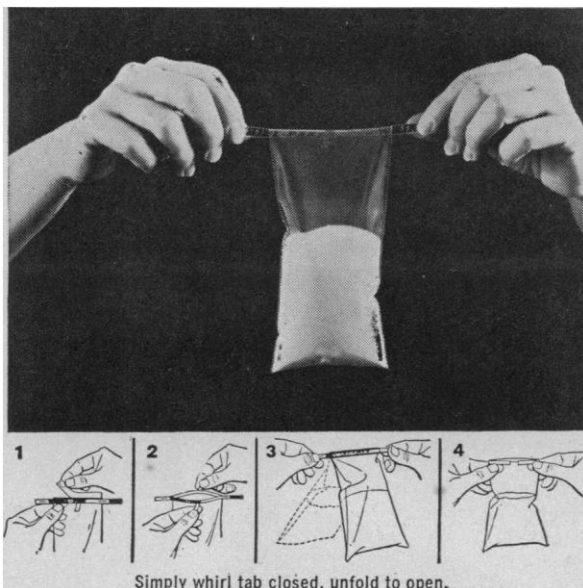
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8. New Mexico Acad. of Science, Socorro. (E. L. Cleveland, New Mexico State Univ., Las Cruces 88001)

8-9. Arizona Chest Disease Symp., Tucson. (L. D. Hudson, Arizona Chest Disease Symp., P.O. Box 6067, Tucson 85716)

8-13. Stereology, 2nd intern. congr., Chicago, Ill. (H. Elias, 2020 W. Ogden Ave., Chicago 60612)

9-13. Aerospace Medical Assoc., 38th annual, Washington, D.C. (Executive Vice Pres., The Association, c/o Washington Natl. Airport, Washington, D.C. 20001)

9-14. American Pharmaceutical Assoc., 114th annual mtg., Las Vegas, Nev. (The Association, 2215 Constitution Ave., NW, Washington, D.C. 20037)

9-15. Cryogenic Engineering, intern. conf., Kyoto, Japan. (K. Oshima, Dept. of Nuclear Engineering, Univ. of Tokyo, Bunkyo-Ku, Tokyo, Japan)

9-16. Inter-American Inst. of Agricultural Sciences, mtg., Rio de Janeiro, Brazil. (The Institute, Apt. 4359, San Jose, Costa Rica)

10. Blood Group Nomenclature, mtg., New York, N.Y. (A. S. Wiener, Office of Chief Medical Examiner of New York City, 520 First Ave., New York 10016)

10-12. Methods and Techniques for Hospital Volunteers, American Hospital Assoc., Pittsburgh, Pa. (E. J. Lanigan, 840 N. Lake Shore Dr., Chicago, Ill. 60611)

10-12. American Soc. of Mechanical Engineers, conf., Detroit, Mich. (Meetings Manager, ASME, 345 E. 47 St., New York 10017)

10-12. European Federation of International College of Surgeons, congr., Barcelona, Spain. (Secretary, International College of Surgeons, 1516 Lake Shore Dr., Chicago, Ill. 60610)

10-12. Great Lakes Research, 10th conf., and Intern. Assoc. for Great Lakes Research, 1st mtg., Toronto, Ont., Canada. (Mrs. J. S. Seddon, Great Lakes Inst., Univ. of Toronto, Toronto 5)

10-12. Institute of Environmental Sciences, Washington, D.C. (R. P. Jones, Admiral Corp. 3800 W. Cortland, Chicago, Ill. 60647)

10-13. American Industrial Health Conf., New York, N.Y. (Industrial Medical Assoc., 55 E. Washington St., Chicago, Ill. 60602)

10-13. American Assoc. of Petroleum Geologists, 52nd annual conv., Los Angeles, Calif. (E. W. Ellsworth, AAPG, 1444 S. Boulder, Box 979, Tulsa, Okla. 74101)

10-14. American College of Physicians, 48th annual session, San Francisco, Calif. (E. C. Rosenow, Jr., 4200 Pine St., Philadelphia, Pa.)

10-14. Hospital Librarianship, American Hospital Assoc., Birmingham, Ala. (E. J. Lanigan, Conv. and Mtg. Bureau, AHA, 840 N. Lake Shore Dr., Chicago, Ill. 60611)

10-14. Management for Engineers, Atlanta, Ga. (Director, Dept. of Continuing Education, Georgia Inst. of Technology, Atlanta 30332)

10-14. Inorganic Reaction Mechanisms, intern. conf., Cork, Ireland. (E. N. Mulcahy, Chemistry Dept., University College, Cork)

10-14. **P.A.L. Colour Television System**, conf., Nottingham, England. (J. L. Regan, Inst. of Electrical Engineers, Savoy Pl., London, W.C.2, England)

10-15. **Budapest Festival of Technical Films**, Budapest, Hungary. (Festival of Technical Films, Szabadsag ter 17, Budapest)

10-15. **French Inst. of Electrical and Electronic Engineers**, intern. conf., Paris. (Colloque Intern. sur l'Electronique et de l'Espace, 16 rue de Presies, Paris 15°)

10-15. **Seminar on Nutrition**, Santo Domingo, Dominican Republic. (Inter-American Children's Inst., Health Section, Ave. 8 de Octubre 2882, Montevideo, Uruguay)

11-13. **Hospitals and Rehabilitation**, American Hospital Assoc., Denver, Colo. (E. J. Lanigan, AHA, 8400 N. Lake Shore Dr., Chicago, Ill. 60611)

11-13. **Nursing Service and Hospital Administration**, American Hospital Assoc., Chicago, Ill. (E. J. Lanigan, AHA, 840 N. Lake Shore Dr., Chicago 60611)

11-13. **British Biophysical Soc.**, Oxford, England. (A. R. Peacocke, St. Peter's College, Oxford)

11-13. **Cleveland Electronics Conf.**, Cleveland, Ohio. (Office of Technical Activities Board, 345 E. 47 St., New York 10017)

11-13. **Faraday Soc.**, Exeter, England. (Faraday Soc., 6 Gray's Inn Sq., London, W.C.1, England)

11-13. **Decision Making in National Science Policy**, symp., London, England. (Ciba Foundation, 41 Portland Pl., London, W.1)

12-13. **Point Defects on Metals**, Inst. of Physics and Physical Soc. and Inst. of Metals, conf., Reading, England. (Meetings Officer, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

12-14. **Electronic Information Handling**, 2nd natl. conf., Pittsburgh, Pa. (A. Kent, Knowledge Availability Systems Center, Univ. of Pittsburgh, Pittsburgh 15213)

12-14. **Optical Soc. of Amer.**, Columbus, Ohio. (Miss M. Warga, OSA, 1155 16th St., NW, Washington, D.C. 20036)

12-14. **Shock Tube Symp.**, 6th intern., Freiburg, West Germany. (R. G. Fowler, Dept. of Physics, Univ. of Oklahoma, Norman 73069)

13-15. **American Assoc. for Cancer Research**, 48th annual mtg., Chicago, Ill. (Secretary-Treasurer, The Association, 7701 Burholme Ave., Philadelphia 11, Pa.)

13-14. **Teaching of Mathematics to Physicists**, Inst. of Physics and Physical Soc. and Inst. of Mathematics and Its Applications, conf., Exeter, England. (Meetings Officer, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

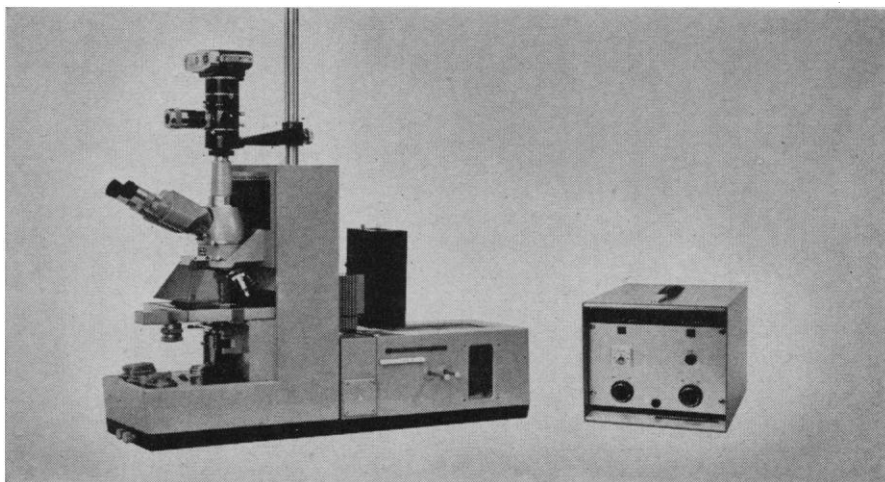
13-16. **British Medical Assoc.**, annual clinical conf., Londonderry, Northern Ireland. (Secretariat, Tavistock Sq., London, W.C.1, England)

13-17. **WESTEC**, 4th Western Metal and Tool Exposition and Conf., Los Angeles, Calif. (Director of Engineering Conf., 20501 Ford Rd., Dearborn, Mich.)

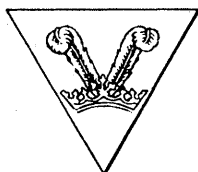
14-15. **Echoencephalography**, intern. symp., Univ. of Erlangen-Nurnberg, West Germany. (W. Schiefer, 8520 Erlangen, Krankenhausstrasse 12, West Germany)

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14-21. **French Physical Soc.**, 61st exhibition, Paris. (The Society, 33 rue Croulebarbe, Paris 13^e)

15-16. **American Soc. for Artificial Internal Organs**, annual mtg., Atlanta, Ga. (P. M. Galletti, Dept. of Physiology, Emory Univ., Atlanta)

15-16. **Histochemical Soc.**, 18th annual mtg., Chicago, Ill. (G. M. Lehrer, Div. of Neurochemistry, Mount Sinai School of Medicine, 11 E. 100 St., New York 10029)

15-16. **Nucleic Acids Symp.**, Santa Monica, Calif. (M. S. Dunn, 9325 Venice Blvd., Culver City, Calif.)

15-16. **Scientific Photography**, 2nd symp., Pacific Northwest Chapter of Biological Photographic Assoc., Univ. of Washington, Seattle. (J. W. McKim, Symp. on Scientific Photography, Univ. of Washington, Seattle 98105)

16-21. **American Physiological Soc.**, spring mtg., Chicago, Ill. (The Society, 9650 Rockville Pike, Bethesda, Md. 20014)

16-21. **Federation of American Societies for Experimental Biology**, annual mtg., Chicago, Ill. (FASEB, Convention Office, 9650 Rockville Pike, Bethesda, Md. 20014)

16-21. **International Cartographic Assoc.**, general assembly and technical conf., Amsterdam, Netherlands. (F. J. Ormeling, Secretary-Treasurer, Bachlaan 39, Hilversum, Netherlands)

16-21. **Society of Motion Picture and Television Engineers**, 101st semiannual conv., New York, N.Y. (Executive Secretary, 9 E. 41 St., New York 10017)

16-21. **Society for Pharmacology and Experimental Therapeutics**, spring mtg., Chicago, Ill. (The Society, 9650 Rockville Pike, Bethesda, Md. 20014)

17-19. **Elementary Particles**, Inst. of Physics and Physical Soc., conf., London, England. (Meetings Officer, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1)

17-19. **Technical Assoc. of Pulp and Paper Industry**, 4th annual water conf., Philadelphia, Pa. (Technical Secretary, 360 Lexington Ave., New York 10017)

17-19. **Institute of Electrical and Electronics Engineers**, Jackson, Miss. (J. E. May, 1120 Auburn Dr., Jackson)

17-19. **Urban Transportation**, 2nd intern. conf., Pittsburgh, Pa. (W. H. Shepard, P.O. Box 1291, Pittsburgh 15230)

17-20. **American Geophysical Union**, annual mtg., Washington, D.C. (F. R. Boyd, Eastern Natl. Mtg. Committee, AGU, 1145 19th St., NW, Washington, D.C. 20036)

17-21. **American Assoc. of Immunologists**, Chicago, Ill. (Executive Secretary, Massachusetts General Hosp., Boston)

17-21. **American Inst. of Nutrition**, annual mtg., Chicago, Ill. (Secretary, The Institute, Dept. of Foods and Nutrition, Michigan State Univ., East Lansing)

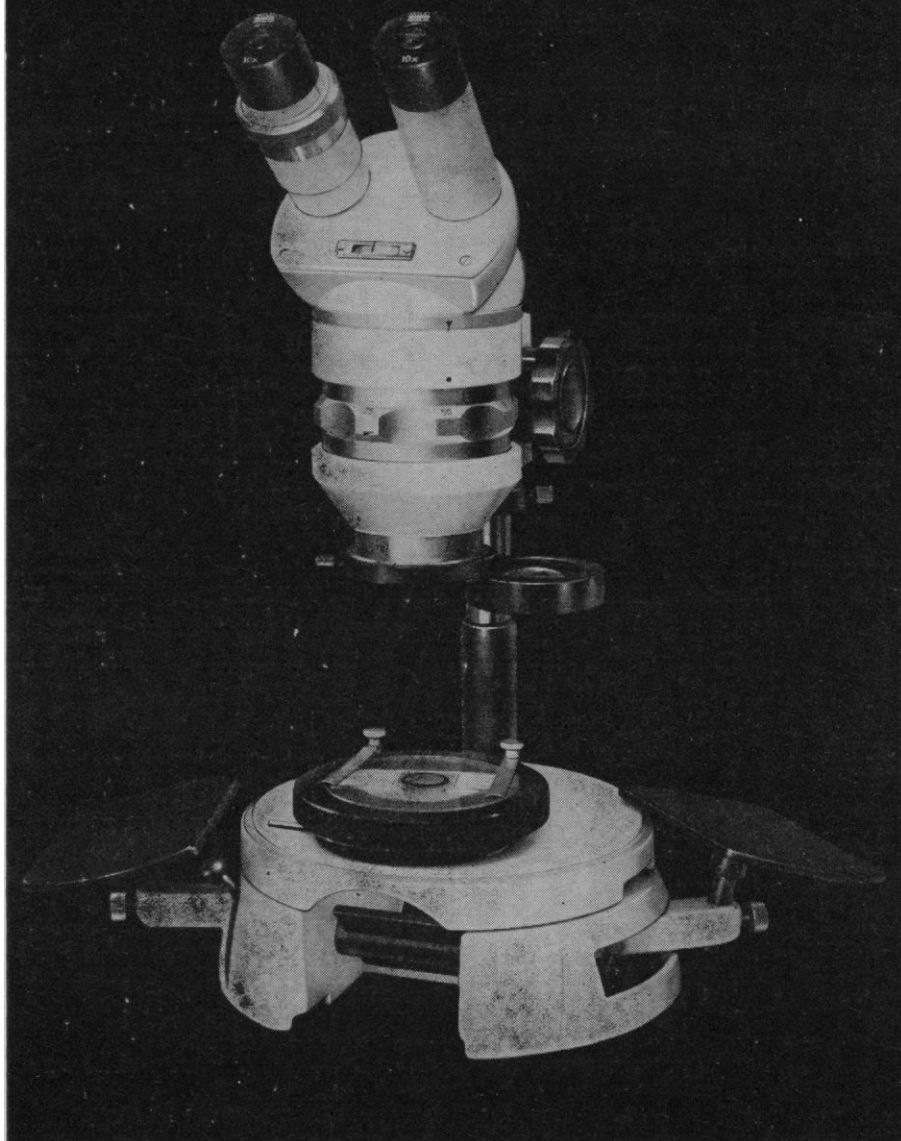
17-21. **American Soc. of Biological Chemists**, Chicago, Ill. (Secretary, The Society, c/o Harvard Univ., 12 Oxford St., Cambridge, Mass.)

17-21. **Central Service Management**, American Hospital Assoc., Miami Beach, Fla. (E. J. Lanigan, Conv. and Mtg. Bureau, 840 N. Lake Shore Dr., Chicago, Ill. 60611)

17-21. **Use of Isotopes and Radiation in Plant Pathology Studies**, Intern. Atom-

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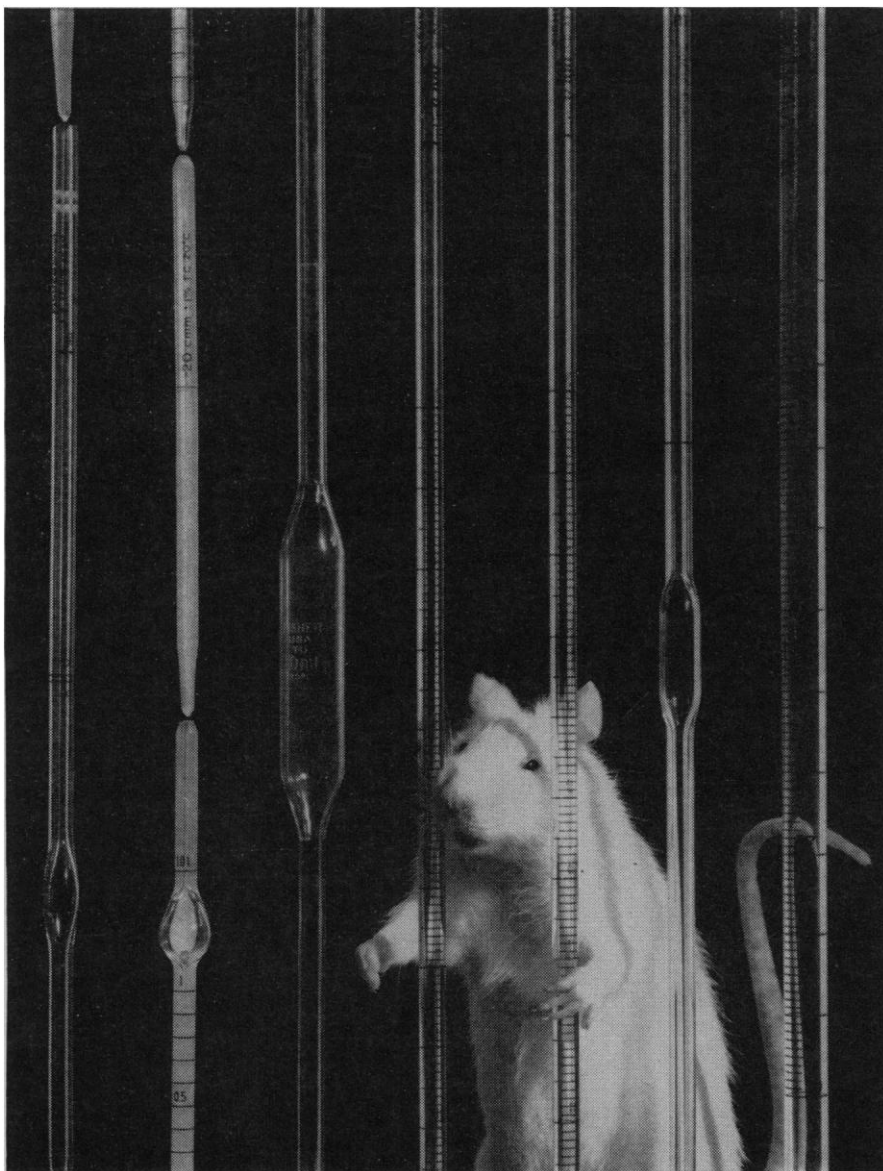


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ic Energy Agency and Food and Agriculture Organization, symp., Vienna, Austria. (J. H. Kane, Chief, Conf. Branch, Div. of Technical Information, Atomic Energy Commission, Washington, D.C. 20545)

18-19. Applications Related Phenomena in **Titanium Alloys**, American Soc. for Testing Materials, symp., Los Angeles, Calif. (The Society, 1916 Race St., Philadelphia, Pa. 19103)

18-20. **Computer Conf.**, Atlantic City, N.J. (American Federation of Information Processing Societies, 211 E. 43 St., New York 10017)

18-20. **Space Instrumentation for Industry**, southeastern instrument conf., Cocoa Beach, Fla. (A. L. Keith, 1127 S. Patrick Dr., Satellite Beach, Fla. 32935)

18-21. National Council of **Teachers of Mathematics**, 45th annual, Las Vegas, Nev. (J. D. Gates, NCTM, 1201 16th St., NW, Washington, D.C. 20036)

18-2. International **Hydrographic Bureau**, intern. conf., Monte Carlo, Monaco. (Contre-Amiral Charles Pierre, Quai des Etats Unis, Monte Carlo, Monaco)

19. Intensity of **Casual Relationships in Schizophrenia**: Living in Imagination, Assoc. for the Advancement of Psychoanalysis, New York, N.Y. (The Association, 329 E. 62 St., New York 10021)

19. **Oral Cancer Symp.**, 5th, St. Francis Hospital, Poughkeepsie, N.Y. (M. A. Engelman, 1 E. Academy St., Wappingers Falls, N.Y.)

19-20. 1967 **Electronics and Instrumentation Conf. and Exhibit**, Cincinnati, Ohio. (G. McVey, Procter & Gamble Co., Ivorydale Technical Center, Cincinnati 45227)

19-21. **Extended Care Facilities in General Hospitals**, American Hospital Assoc., Miami Beach, Fla. (E. J. Lanigan, Conv. and Mtg. Bureau, 840 N. Lake Shore Dr., Chicago, Ill. 60611)

19-21. **Child Dental Health**, intern. symp., London, England. (D. S. Berman, British Paedodontic Soc. London Hospital Dental Inst., Stepney Way, London, S.E.1)

19-21. Institute of **Electrical and Electronics Engineers**, southwestern conf., Dallas, Tex. (Office of Technical Activities Board, IEEE, 345 E. 47 St., New York 10017)

20-21. Middle Atlantic States **Textile Industry Conf.**, Charlotte, N.C. (G. L. Bassett, Micro Switch, 2410 Dunavants, Charlotte 28203)

20-22. **Biological Energy Conversion**, conf., NASA Ames Research Center, Moffett Field, Calif. (Letters and Science Extension, Univ. of California, 2223 Fulton St., Berkeley)

20-22. **Ohio Acad. of Science**, 76th annual mtg., Dayton, Ohio. (J. H. Melvin, Executive Officer, The Academy, 505 King Ave., Columbus, Ohio 43221)

20-23. **German Roentgen Soc.**, 48th congr., Baden Baden. (H. Poppe, 34 Gottingen, Gosslerstrasse 10, West Germany)

21-24. American **Oil Chemists' Soc.**, Memphis, Tenn. (C. H. Hauber, Executive Secretary, 35 E. Wacker Dr., Chicago, Ill.)

23-26. European **Congr. of Neurosurgery**, 3rd, Madrid, Spain. (S. Obrador, Eduardo Dato, 23, Madrid 10)

23-27. American Soc. of **Mechanical Engineers**, Chicago, Ill. (Meetings Manager, The Society, 345 E. 47 St., New York 10017)

24-26. Coordinating Committee for **Human Tumour Investigations**, intern. symp., Rome, Italy. (W. Davis, C. Beatty Research Inst., Inst. of Cancer Research, Royal Cancer Hosp., Fulham Rd., London, S.W.3, England)

24-26. **Environmental Health Management**, natl. congr., New York, N.Y. (Dept. of Environmental Health, American Medical Assoc., 535 N. Dearborn St., Chicago, Ill. 60610)

24-26. **Frequency Control Symp.**, 21st annual, Atlantic City, N.J. (Director, Electronic Components Laboratory, U.S. Army Electronics Command, Attention: AMSEL-KL-ST, Fort Monmouth, N.J. 07703)

24-26. **Image Detection and Processing**, Inst. of Physics and Physical Soc., conf., Great Malvern, Worcester, England. (Meetings Officer, Inst. of Physics and Physical Soc., 47 Belgrave Sq., London, S.W.1, England)

24-26. **National Acad. of Sciences**, 104th annual, Washington, D.C. (Office of Home Secretary, NAS, 2101 Constitution Ave., NW, Washington, D.C. 20418)

24-27. **Management Technology and the Optimization of Research and Development**, American University Inst., Washington, D.C. (Center for Technology and Administration, American Univ., 2000 G St., NW, Washington, D.C. 20006)

24-27. **Simulation and Training Conf.**, 3rd intern., New York, N.Y. (J. E. Ekstromer, C1-250, SAE 3rd Intern. Simulation and Training Conf., Douglas Aircraft Div., 3855 Lakewood Blvd., Long Beach, Calif.)

24-28. **American Soc. of Tool and Manufacturing Engineers**, Chicago, Ill. (Director, Engineering Conf., ASTME, 20501 Ford Rd., Dearborn, Mich. 48128)

24-28. **International Office for Motor Trades and Repairs**, 21st congr., Tokyo, Japan. (Japan Automobile Dealers Assoc., 5-chome, 52-2, Jingumae, Shibuya-ku, Tokyo)

24-6. **Lindauer Psychotherapy Week**, 17th, Munich, West Germany. (Secretary, Lindauer Psychotherapy Week, 8 Munich 27, Adalbert-Stifter-Str.31)

25-27. **Power Conf.**, American Soc. of Mechanical Engineers, Chicago, Ill. (Meetings Manager, The Society, 345 E. 47 St., New York 10017)

25-27. **British Nuclear Forum**, 3rd congr., London, England. (European Atomic Forum, 26 rue de Clichy, Paris 9^e, France)

25-27. **International Sugar Confectionery Manufacturers Assoc.**, congr., Amsterdam, Netherlands. (B. H. Wellmann, Nederlandse Vereniging voor Suikerwerken Chocolade-verwerkende Industrie, Marxstr. 380, Amsterdam)

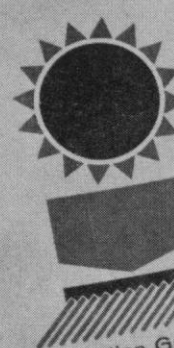
26-27. **Advanced Technology Available for Commercialization**, symp., Research Triangle Park, N.C. (Director, North Carolina Science and Technology Research Center, P.O. Box 12235, Research Triangle Park 27709)

26-27. **International Lead Zinc Research Organization**, Inc., Montreal, P.Q., Canada. (W. C. Hall, American Zinc Inst., Basford Inc., 1301 Avenue of Americas, New York 10019)

26-27. **National Acad. of Engineering**, Washington, D.C., 3rd annual. (Secretary, NAE, 2101 Constitution Ave., NW, Washington, D.C. 20418)

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GRATINGS



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TABLE II
SPECIAL PLANE REFLECTANCE GRATINGS - 200A - 36μ

Grating	20	30	50	55	58	64	65	66	68	70	75	80	85	90	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200
1. RULED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
2. BLANK	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
3. SHAPED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

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TABLE I

Grating	17	18	19	20	25	27	28	30	34	36	44
1. RULED	100	100	100	100	100	100	100	100	100	100	100
2. BLANK	100	100	100	100	100	100	100	100	100	100	100
3. SHAPED	100	100	100	100	100	100	100	100	100	100	100

1200A - 112μ (CONTINUED)

Grating	102	105	108	110	112	115	118	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200
1. RULED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2. BLANK	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3. SHAPED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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