

9-10 January 1978

**One-to-One Video Programming Seminar**, Philadelphia, Pa. Info from William H. Scibel, Temple University, Annenberg 18, 13th and Norris Sts., Philadelphia, PA 19122. (See *Journal*, p. 796, Oct. 1977.)

12-17 January 1978

**NAVA Convention**, Houston, Tex. Info from National Audio-Visual Assn., 3150 Spring St., Fairfax, VA 22030. (See *Journal*, p. 852, Nov. 1977.)

16-18 January 1978

**OSA Meeting on Integrated and Guided Wave Optics**, Salt Lake City, Ut. Info from Optical Society of America, 2000 L St., N.W., Washington, DC 20036.

3-4 February 1978

**SMPTTE Television Conference**, Sheraton-Atlanta Hotel, Atlanta, Ga., Info from SMPTTE Headquarters.

5-8 February 1978

**Objectives of Pictorial Color Reproduction Conference**, Williamsburg, Va. Info from Inter-Society Color Council, Inc., Office of Secretary, Fred W. Billmeyer, Jr., Rensselaer Polytechnic Institute, Troy, NY 12181.

7-9 February 1978

**Conference on Laser and Electro-Optical Systems**, Town and Country Hotel, San Diego, Calif. Info from Jarus W. Quinn, Executive Director, Optical Soc. of America, Suite 620, 2000 L St., N.W., Washington, DC 20036. (See *Journal*, p. 852, Nov. 1977.)

13-14 February 1978

**Laser Technology, Seminar**, Atlanta, Ga. Info from Heidi E. Kaplan, Dept. 14NR, New York Management Center, 360 Lexington Ave., New York, NY 10017.

15-17 February 1978

**IEEE Solid State Circuits Conference**, San Francisco, Calif. Info from Lewis Winner, 152 W. 42 St., New York, NY 10036.

16-19 February 1978

**Association for Multi-Image, Workshop**, Gainesville, Fla. Info from Ron Slawson, AMI, 947 Old York Rd., Abington, PA 19001. (See above.)

17 February 1978

**Midwest Film Conference**, Mariott O'Hare Hotel, Chicago. Info from Bruce Trinz, 308 B Frontage Rd., Northfield, IL 60093. (See *Journal*, p. 574, August 1977.)

19-22 February 1978

**American Film Trade Exposition**, Bonaventure Hotel, Los Angeles. Info from Jerry Feifer, c/o The Hollywood Reporter, 6715 Sunset Blvd., Hollywood, CA 90028.

27 February-3 March 1978

**RIT Photographic Science Seminar**, Rochester, NY 14623. (See above.)

6-8 March 1978

**Laser Beam Information Seminar**, University of Chicago. Info from University of Chicago Center for Continuing Education, 1307 E. 60 St., Chicago, IL 60637 (See above.)

6-8 March 1978

**Preservation and Restoration of Photographic Images**, RIT. Info from William D. Siegfried, College of Graphic Arts and Photography, Rochester Institute of Technology, One Lomb Memorial Dr., Rochester, NY 14623. (See *Journal*, p. 796, Oct. 1977.)

13-14 March 1978

**Photo- and Electro-Optics in Range Instrumentation**, Ramada Inn, Fort Walton Beach, Fla., Info from SPIE, P.O. Box 10, Bellingham, WA 98225. (See above.)

27-31 March 1978

**ITVA Conference**, Kansas City, Mo. Info from Ron Brown, International Offices, P.O. Box 297, Summit, NJ 07901. (See *Journal*, p. 512, July 1977.)

18-20 April 1978

**Information Display International Symposium**, San Francisco. Info from Society for Information Display, 654 N. Sepulveda Blvd., Los Angeles, CA 90049. (See *Journal*, p. 852, Nov. 1977.)

20-26 April 1978

**12th International Symposium on Remote Sensing of Environment**, Manila, Philippines. Info from Center for Remote Sensing Information and Analysis, P.O. Box 618, Ann Arbor, MI 48107. (See *Journal*, p. 852, Nov. 1977.)

24-26 May 1978

**Topical Meeting on Picosecond Phenomena**, Holiday Inn, Hilton Head Island, South Carolina. Info from Optical Soc. of America, 2000 L St., N.W., Washington, DC 20036.

30 April-5 May 1978

**SPSE 31st Annual Conference**, Sheraton Park Hotel, Washington, D.C. Info from Soc. Photographic Scientists and Engineers, 1411 K St., N.W., Washington, DC 20005.

29 May-1 June 1978

**10th International Quantum Electronics Conference**, Atlanta, Ga. Info from Lewis Winner, 301 Almeria Ave., Coral Gables, FL 33134

30 May-1 June 1978

**Euro Comm 78 Advanced Communications Conference and Exhibition**, Bella Center, Copenhagen. Info from Euro Comm 78, Bell Center A/S, Center Blvd., DK-2300, Copenhagen S, Denmark.

20-25 August 1978

**13th International Congress on High-Speed Photography and Photonics**, Tokyo, Japan. Info from The Organizing Committee, 13th International Congress on High-Speed Photography and Photonics, c/o Japan Society of Precision Engineering, Ceramics Building, 2-22-17 Hyakunin-cho, Shinjuku-ku, Tokyo 160, Japan. (See *Journal*, p. 230, Apr. 1977.)

20-26 August 1978

**International Congress of Photographic Science**, Rochester Institute of Technology. Info from George Bird, School of Chemistry, Rutgers University, New Brunswick, NJ 08903.

25-29 September 1978

**International Broadcasting Convention**, Wembley Conference Centre, North West London. Info from The Secretariat, IEE, Savoy Pl., London, England WC2R OBL. (See *Journal*, p. 898, Nov. 1976; also above.)

## Industry News & Educational Activities

**CINE** (Council on International Nontheatrical Events), the voluntary, nonprofit organization that selects the best United States short films for entry in film festivals abroad, has announced the results of its 1977 Fall Competition. A total of 142 Golden Eagle Certificates and 17 CINE Eagle Certificates were awarded to U.S. filmmakers who participated in the Competition. The Golden Eagle Certificates were presented to producers and sponsors at CINE's Annual Awards Ceremonies on 7 December. The CINE Eagle Certificates (for amateur productions) were presented at a special ceremony on 8 December.

**Formation of Training Technology Co.**, a new organization offering intensive training seminars on audio and video system maintenance, has been announced by David B. Schein, former Training Manager for International Video Corp. The firm's address is P.O. Box 787, Springfield, OH 45501.

**Digital Troubleshooting**, a color videotape program with accompanying textbook and lab workbook designed to provide training in the field of digital instrumentation, is available in an updated version from Hewlett-Packard, 1501

Page Mill Rd., Palo Alto, CA 94304. Said to be equivalent in coverage to a two-day live seminar, the program, consisting of 14 videocassettes, has a running time of 5 h and 31 min. Included in the course is a 180-page textbook, lab workbook and study guide. The program is designed to provide instruction for individuals learning digital troubleshooting for the first time and for technicians needing a refresher course in digital (versus analog) techniques. Topics discussed in the tapes include an introduction to digital electronics and the binary system; the basics of transistors and ICs; logic gates and symbols, digital IC families; troubleshooting digital ICs; flip flops; counters; shift registers; combinational logic circuits; display technologies; and IC manufacturing and memories.

Each videotape is available in a 3/4-in videocassette. Other formats can be supplied on request. The videocassettes may be purchased individually at prices ranging from \$250 to \$375. The text, *Digital Troubleshooting*, is priced at \$9.95. The lab workbook, *Digital Experiments*, is priced at \$8.95. The entire course (14 tapes, textbooks and study guide) is priced at \$3600.

**The Rank Organisation** has announced that its subsidiary, Rank Precision Industries, has ac-

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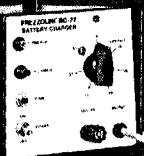
**A: To keep their hand-held video cameras from running down!**



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quired the special cathode ray tube interests of the EMI Electron Tube Division. The operation, a comparatively small part of the EMI Electron Tube Division, will be incorporated in to Rank Electronic Tubes at Sidcup, Kent., England, whose range of products includes CRTs for marine radar and air traffic control, avionics, scanning, phototypesetting, projection and various applications in the defence field. The acquisition will enable Rank Electronic Tubes to increase its specialization in scanning tubes for telecines with the aid of some additional EMI expertise. These tubes are used in the Rank Cintel Mark III Telecine.

**Rank Film Laboratories Ltd.**, Denham, Uxbridge, Middlesex UB9 5HQ, England, has announced that its subsidiary at North Acton ceased production following the transfer of all motion-picture processing to the company's principal plant at Denham. The closure coincided with the opening of the Laboratories' high-speed processing extension said to boost Rank's color print capacity by 50 percent. Closed because of the need for rationalization and the emergence of new processing techniques, the 50,000 ft<sup>2</sup> Acton plant has had associations with the British film industry since the early thirties. Originally built by Paramount for processing its own features and newsreels, the Olympic Laboratory, as it was then known, earned the distinction of being the first in Great Britain to process a full-length feature in color — a film entitled *Wings of Morning*.

**RCA American Communications, Inc.** has announced that several new categories of satellite transmission service with corresponding rates are being offered as a result of RCA Americom's earlier application to the FCC for establishment of a new rate structure and the expansion of a number of service options. For the first time, rates will apply for off-peak usage. For both occasional and fixed term services, rates during off-peak times will be lower than during peak times. Options will allow the user to select protected, unprotected or preemptible service. The preemptible television rates are intended to attract users who do not require live or real time transmission or whose programming can be shifted to a later period in the event of preemption. Occasional use television channels are being offered at all RCA Americom television operating centers.

**Sony Corp. of America**, 9 W. 57 St., New York NY 10019, has announced plans to establish a video technology center in the Bay Area of San Francisco to serve as a comprehensive technical base for institutional video. The center will provide systems technology in the overall video field and will also deal with the technical development of peripheral equipment. Taking into consideration the future trends of the market, Sony intends to turn the center into a major development and production video base for general institutional uses and professional purposes.

**Visual Impact Productions**, 57 East Canfield, Detroit, MI 48201, a multi-media production company has received the Spirit of Detroit Award from the City Council. The award recognized the firm's contributions to improving Detroit's image through its film and still photographic capabilities. The company contributed time and talent to the *Detroit Is People* series of public service television commercials. Visual Impact, a minority-owned company, was established in 1971 as a still photography studio.

Celebrating its sixth anniversary, the company has grown to provide slide, motion-picture and television spot production.

**Cara International Ltd.**, 4145 Via Marina, #120, Marina del Rey, CA 90291, has been appointed import agent in the western United States by A B Pearl of Sweden, manufacturer of an extensive line of microphones. The PML microphones are made for a wide range of applications including sound recording, broadcast, television, public address and home recording. In addition the line includes a wireless microphone system, an interference tube (shot gun) system and complete range of accessories. Prices for the dynamic microphones range from about \$40 to \$170. Condenser microphones are priced from \$85 to \$1125. The condenser microphones have rectangular diaphragms and use FET preamplifiers for a wide dynamic range and low noise characteristics.

**A & G Concepts**, 1660 Hotel Circle North, San Diego, CA 92108, has announced an expansion of its facilities. When completed the expanded facilities will include a computerized editing center with on-line mastering; recently developed digital camera equipment; four new videotape recorders and a portable production system designed to enable crews to shoot anywhere, anytime.

**A & G Productions**, 1660 Hotel Circle North, San Diego, CA 92108 has built a modularized mobile television production system designed for flexibility, according to a recent announcement. A&G engineers used the latest in custom video technology from three countries (United States, Germany and Japan) to build a system that could be used in locations inaccessible to conventional mobile systems, the announcement stated, such as helicopters, ships at sea, tops of buildings and other difficult locations. The system includes a custom-wired control van with shooting platforms; new digitally controlled cameras (accepting any C-mount lens) that enable crews to shoot up to 3000 ft away from the control unit; Ampex VPR-1 video recorders; custom sound systems; and a power pack that enables the use of either ac power or power from batteries.

**Sony Corp.**, with headquarters in Tokyo, will provide RCA Corp. with technology on the 1-in helical scan videotape recorder under terms of an agreement announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The agreement calls for Sony to provide RCA Corp. with production technology on the 1-in, f/1.5-head, helical scan videotape recorder, the Omega machine and related equipment. RCA Corp. can then utilize the technology to produce videotape recorders and related equipment on a non-exclusive basis and market them worldwide. Picture quality of the Sony recorder is said to be at least as high as that of other recorders used for broadcasting, while the price of the recorder is considerably lower.

**Altec Corp.** 1515 S. Manchester, Anaheim, CA 92803, has announced the formation of a Canadian subsidiary located at 151 Carlingview Dr., Unit 5, Rexdale, Ont., Canada M9W 5E7. The new Canadian company, headed by Rod Marsh, will provide centralized warehousing for national distribution and local inventory for immediate product availability.

**The Public Affairs Organization of RCA's**

Government Systems and Commercial Communications activities has moved its offices from Moorestown, N.J., to Cherry Hill, N.J., according to a recent announcement. The new headquarters are in Building 206-1 of RCA's Cherry Hill offices, about five miles from center city Philadelphia with good access to ground and air transportation.

**Phototron Co.**, Rialto, Calif., has acquired the Honeywell photofinishing laboratory in Flushing, N.Y., which has been used to process Agfa-Gevaert still and motion-picture color film. The acquisition was made after consultation with Agfa-Gevaert. The laboratory will continue to provide processing services for Agfa-Gevaert.

**Joseph Roizen**, President of Telegen, 800 Welch Rd., Palo Alto, CA 94304, has been made a Fellow of the Royal Television Society of Great Britain. Roizen is the third American to be so honored in the 50-year history of the world's oldest television society. The citation, read by John Ware, RTS Council Chairman, noted Roizen's technical developments in the fields of videotape editing and color television recording. The citation noted also Roizen's contributions to RTS in giving lectures at various symposiums and by contributing articles to RTS's journal. The award was presented on 13 September at a dinner at the Arts Club on Dover Street in London.

**Peter C. Goldmark**, President of Goldmark Communications Corp., One Communication Plaza, Stamford, CT 06904, has been awarded a U.S. Patent for his invention of the Rapid Transmission System (RTS), a system that makes it possible to transmit up to 120 different half-hour video programs from the same reel of videotape for classroom instruction over ordinary television sets. The system uses a special coding technique to pack video and audio information in a small area so that programs can be transmitted directly to learning centers in a community or school. The main feature of RTS is its electronic coding ability to store the information contained in 120 different half-hour programs on a single reel of videotape for transmission. RTS is the result of cooperative development effort between Goldmark Communications and ACCESS — the Association of Community Colleges for Excellence in Systems and Services. Compatible technology makes it possible to record and play back on any videotape machine and cassette the 120 lessons with still and motion pictures and sound.

*Note added in proof:* Dr. Peter Goldmark was killed in an automobile accident in Westchester County, N.Y. on December 7, 1977. An obituary will be published in the February 1978 *Journal*.

**Frank P. Brackett**, noted laboratory research scientist, has been appointed a corporate consultant to Foto-Kem, 2800 West Olive Ave., Burbank, Calif. He will assist Foto-Kem technicians in developing new techniques to further improve motion-picture quality and processing. Dr. Brackett, who was Technical Director of the Research Division of Technicolor Corp., retired in 1972 after 35 years with Technicolor.

**Kenneth J. Rice** has been appointed a broadcast equipment sales representative for RCA Corp. with headquarters in Dallas, Tex. In his new post he will be responsible for marketing RCA's line of radio and television studio and transmitting

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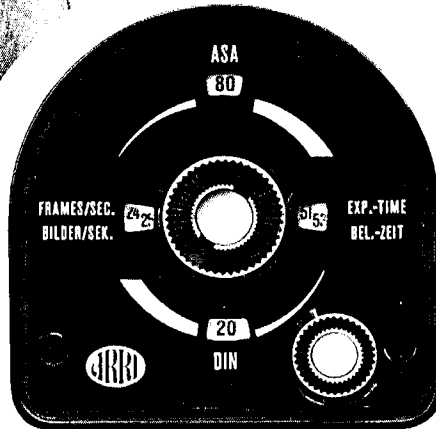
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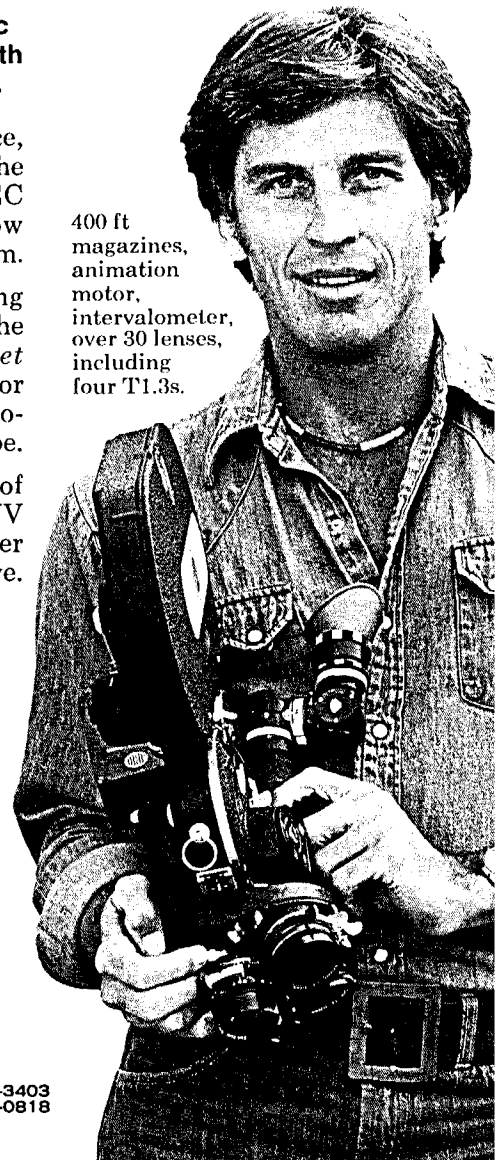
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systems in eastern Texas, Louisiana and Arkansas. Prior to his present appointment Rice had been a sales manager with Fujinon. Earlier he had been a sales manager for Angonieux.

**Charles T. Duncan**, Dean of Howard University Law School, was elected a director of Eastman Kodak Co. He had served as principal Assistant U.S. Attorney for the District of Columbia, first General Counsel of the Equal Employment Opportunity Commission and Corporation Counsel for the District of Columbia before his appointment in 1974 as Dean of the Law School. He is director of the National Bank of Washington, a director of the NAACP Legal Defense and Education Fund, and a director of the Public Defender Service of the District of Columbia. He has received numerous citations for his contributions to public service.

**John J. Burlinson** has been named Vice-President and General Manager of Eprad, Inc., 123 West Woodruff, Toledo, OH 43620, it was announced by Al Boudouris, President. Burlinson most recently served as General Operations Manager of National Theatre Supply. He was also in charge of the NTS Simplex Manufacturing Operation from 1972 through 1975.

**Jack Berner** has retired from the post of General Manager for Rank Film Laboratories, Denham, Uxbridge, Middlesex UB9 5HQ, England, according to a recent announcement. He joined the Laboratories in 1937 and for 20 years he was solely responsible for all overnight processing. Later he managed Top Rank and North Acton Laboratories prior to becoming Assistant General Manager, and, in 1967, Technical General Manager of the company. He was appointed to the Board in 1969. He is succeeded by Roy Login who was recently promoted to the Board as Director of Operations.

**Gary L. Kuntz** has joined the Electronics Division of Cohu, Inc., Box 623, San Diego, CA 92112, as Sales Engineer. He was formerly with Telemation, Inc., as National Sales Manager for Government Accounts.

## Books, Booklets, Brochures

**Impact of Wideband Communications**, a 223-page report, predicting that, within the next few years, communication satellites and fiber optics technologies will be combined to provide universally available, inexpensive wideband communications, is available from the publishers, International Resource Development Inc., 125 Elm St., New Canaan, CT 06840, at a price of \$795. A detailed description and the Table of Contents are sent free upon request. New communications channels would have a major effect on the economics of teleconferencing, electronic mail and data communications, the report states, predicting that this would be reflected in some substitution of teleconferencing for airline travel and some changes in the way in which business paper is used for business correspondence and forms. International Resource Development Inc. is a specialized research and management consulting firm which has produced more than 30 major market studies during the last six years.

**The Standards Handbook for Metric Machinery Fasteners**, is a 47-page handbook comparing ISO, American, British and German Metric standards to help designers select metric fasteners for machinery and equipment. Dimen-

sions, thread tolerances, and strength grade data are listed in quick-reference form. Differences between standards are noted and their significance explained. Preferred sizes and correct designations are given and standards numbers and their sources are listed. The book is available from The Standards Handbook Co., P.O. Box 114, Flint, MI 48501, at a price of \$6 in the United States, Canada and Mexico and \$7 elsewhere.

**Crystal Testing Using a Spectrum Analyzer and Tracking Generator** is an Application Note available upon request from Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. The Note discusses the characterization of quartz crystals for use in filters or oscillators using a conventional spectrum analyzer and tracking generator. The TF2370 Spectrum Analyzer is described in terms of its tracking generator facility together with its information storage and display system which make it useful for crystal testing and measurements. The Application Note discusses these tests with particular reference to transmission measurement methods of crystal characterization.

**Video Products Guide**, an 80-page illustrated catalog, available from Roscor Corp., 6160 West Oakton St., Morton Grove, IL 60053, lists and describes leading brands of video recorders, color and black-and-white cameras, monitors, special effects generators, terminal equipment and projection television systems. Specifications of most products are included. Among the items included are products of such well known manufacturers as Advent, Ampex, Arvin Echo, Hitachi, Ikegami, JVC, Panasonic, Sony, 3M, and other leading manufacturers. In addition to product descriptions, the *Video Products Guide* provides information on Roscor's service in systems engineering, video cassette duplication, production, post-production and equipment rental.

**Antennas and Butterworth and Chebyshev Filters** are two new books designed to provide owners of Hewlett-Packard HP-67 and HP-97 programmable personal calculators with solutions to problems in microwave, radio and television communications. The books priced at \$10 each, are available from Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The HP-97 is a fully programmable calculator that features a quiet printer, fully merged program memory and a "smart" magnetic card reader. The HP-67 is a pocket-size version of the HP-97.

**Proper handling and storage** to ensure longer magnetic tape life and greater reliability is discussed in a 4-page brochure available from 3M Company, Dept. Ma7-47, Box 33600, St. Paul, MN 55133. The publication, one in 3M's *Relativity* series, contains illustrated descriptions of common physical conditions which shorten tape life or cause poor performance, with explanations of ways to prevent them. Headings include The Recording Area; Tape Storage Area; Accidental Erasure; Cinching, Scratching and Edge Damage; Long-Term Storage; and others.

**Objective TV Measurements**, a booklet explaining the various television measurement parameters and the use of Insertion Test signals (ITS) to measure them, is available upon request from Marconi Instruments Ltd., Publicity Dept., Longacres, St. Albans, Herts AL4 0JN, England. The illustrated booklet describes the

range of MI instruments available to meet national and international ITS requirements and the ways in which systems can be tailored to meet individual requirements.

**The NAC 35mm flicker-free analysis projector** is described in a 4-page illustrated spec/data sheet available from Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, CA 91506. The projector, Model DF-35, is designed for rear screen, front screen or wall projection.

**The TVS/TAS-1000 video/audio distribution switching system** is described in an 8-page brochure available upon request from TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. The illustrated brochure outlines the system's features including solid state crosspoints with vertical switching, single-coax "party-line" control, plug-in conversion to phone line or computer control and others. Design considerations are also covered.

**The MQS-100 Synchronizer** is described in a 12-page brochure available upon request from EECO Broadcast Products, 1441 East Chestnut Ave., Santa Ana, CA 91701. Specifications, features, controls, operation and applications are covered in the brochure. The system is designed to cue and synchronize any three mag tape transports, including video, audio and mag film, simultaneously.

**How to use a spectrum analyzer** for modulation measurements is explained in an Instrument Application Note available upon request from Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. The analyzer can be used to measure either amplitude modulated or frequency modulated signals.

**The Vu-Graph II®** overhead projector is described in a 4-page color brochure available from Charles Beseler Co., 8 Fernwood Rd., Florham Park, NJ 07932. The brochure details the projector's advanced optical features, extended lamp life and energy-saving characteristics. Other features described include single-knob control optical tuning which focuses the lighting system while simultaneously focusing the lens.

**A new shorting plug** designed to eliminate hum and noise pickup by unterminated microphone circuits is described in an illustrated sheet (Product Bulletin No. 323) available from Switchcraft, Inc., Sales Dept., 5555 North Elston Ave., Chicago, IL 60630. The shorting plugs connect directly into Switchcraft Q-G and QGP (Quick Ground Professional) female receptacles and similar types with compatible contact configurations. A shorting jumper connected between pins 2 and 3 on the plug shorts out unterminated microphone inputs thereby minimizing hum and noise pickup.

**Applications of the 110 MHz spectrum analyzer, TF2370**, are described in Applications Note, No. 18, available upon request from Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Designed for spectral analysis, the instrument's secondary features simplify its operation and enhance its usefulness. The booklet explains how the secondary features can, on occasion, provide measurement techniques which dominate its primary use as an analyzer of spectra.