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 Castriagnano, Robert A., appointment, 783, Nov.
 Cherry, Professor Colin, Imperial College of Science and Technology, London, recipient Fourth Marconi International Fellowship, 472, July
 Chiu, Donald, wins Ampex's Alexander M. Pontiatoff Award, 720, Oct.
 Comandini, Pete, appointment, 64, Jan.
 Dale, John, appointment, 410, June
 Davis, Donald and Carolyn, receive Achievement Award, Upper Midwest Acoustical Society of America, 784, Nov.
 Davis, Sterling E., appointment, 410, June
 Dickenson, William A., EIA Engineering Award of Excellence, 339, May
 Dunn, Linwood, new President, American Society of Cinematographers, 339, May
 Ebbetts, Rex, President, BKSTS, 544, Aug.
 Edney, Brian, appointment, 725, Oct.
 Elle, Bruce L., appointment, 478, July
 Fink, William A., appointment, 846, Dec.
 Goldberg, Abraham A., 783, Nov.
 Guisinger, Barrett E., appointment, 410, June
 Hanson, Wesley T., 1977 Cultural Prize of the German Photographic Society, 64, Jan.
 Holder, Carl L., appointment, 176, Mar.
 Humphrey, John H., appointment, 650, Sept.
 Jaeger, Paul, teaching in NYU School of Film and Television, 846, Dec.
 Jamison, Walter C., appointment, 176, Mar.
 Saul Jeffee, special award, 646, Sept.
 Kaiser, Arthur, appointment, 783, Nov.
 Karr, Larry, appointment, 720, Oct.
 Kay, Melvin, appointment, 339, May
 Korodi, Milos B., appointment, 650, Sept.
 Kramer, Joseph H., appointment, 650, Sept.
 LaBate, Nicholas J., appointment, 718, Oct.
 LaZare, Howard, appointment, 725, Oct.
 Lemoine, Maurice, wins Ampex's Alexander M. Pontiatoff Award, 720, Oct.
 Lind, Anthony H., appointment, 720, Oct.
 Lippman, David M., appointment, 650, Sept.
 Lloyd, Hilary, appointment, USC, 478, July
 Lundy, Roger, appointment, 64, Jan.
 Luther, Arch C., appointment, 718, Oct.
 Maguire, Edward B., appointment, 410, June
 Mason, Kenneth M., guest speaker, Rochester Institute of Technology, 339, May
 Melchionni, Bruno F., appointment, 650, Sept.

Miller, Francis W., appointment, 176, Mar.
 Moore, J. Kenneth, appointment, 720, Oct.
 Muttitt, William A., appointment, 650, Sept.
 Orr, William H., named Chairman of the Board of Orrox Corp., 784, Nov.
 Pincu, Thomas L., appointment, 544, Aug.
 Plummer, Robert H., appointment, 176, Mar.
 Press, Frank, guest speaker, Washington Group National Association of Science Writers, 538, Aug.
 Roth, Wilhelm, made honorary member of Fernseh- und Kinotechnische Gesellschaft, 176, Mar.
 Scobey, Fred, named President, DeLuxe Laboratories, 410, June
 Sirinsky, Richard, appointment, 339, May
 Smith, Robert R., appointment, 720, Oct.
 SMPTE Executive Director to retire, 716, Oct.; 783, Nov.
 Spruill, Dudley, Executive Secretary, Association of Cinema & Video Laboratories, 339, May
 Stern, David M., appointment, 725, Oct.
 Stone, Burton, named President, DeLuxe General, Inc., 410, June
 Troutner, C. Ray, retires from Eastman Kodak Co., 784, Nov.
 Vandervort, DeVere L., appointment, 650, Sept.
 Wicinski, Edward T., appointment, 725, Oct.
 Wortman, Leon A., appointment, 720, Oct.
 Irwin Young, Chairman, Robert M. Smith, Executive Vice-President, Du Art Film Laboratories, recipients of Certificate of Commendation, Local 644, International Photographers of the Motion Picture Industry, 544, Aug.

PROFESSIONAL AND SCIENTIFIC ORGANIZATIONS - including conferences, awards, etc.

Aeroballistic Range Association, 406, June
 American Film Institute/Arts Endowment Film Archival Program, grants, 538, Aug.
 American Soc. of Cinematography honors Thomas E. Tutwiler and Sidney Hickox, 339, May
 American Society of Cinematographers honors three long-term members, 544, Aug.
 American Society of Safety Engineers criticizes Barlow Decision of U.S. Supreme Court, 538, Aug.
 Association for Multi-Image, establishes Archives and Clearinghouse, 846, Dec.
 AV Practice 78, DIB convention, 339, May
 BKSTS Fellows Awards, 472, July
 California Institute of Research Foundation grants Syn-Aud-Com license to practice time-delay spectrometry, 538, Aug.
 Canadian Film and Television Association elects new officers, 339, May
 ———, new policies, programs, 716, Oct.
 CINE announces two award-winning films, 644, Sept.
 ——— announces U.S. amateur films prizes, 716, Oct.
 ——— awards Golden Eagle Certificates to U.S. filmmakers, 538, Aug.
 ———, new officers, 474, July
 Franklin Institute honors 8 scientists, 116, Feb.
 International Telecommunication Union, Rural Telecommunications, seminar in Delhi, 846, Dec.
 ———, World Administrative Radio Conference, 1979, 538, Aug.
 National Audio-Visual Association induces U.S. Postal service to machine small film cases, 408, June
 Optical Soc. of America announces award winners, 259, Apr.
 Geoffrey Parr Award to Rank Cintel's Mark 3 telecine, 540, Aug.
 Photokina, 646, Sept.
 Max Planck Institute, Laser Research Group, 62, Jan.
 Professional Motion Picture Equipment Assn., establishes central headquarters, 260, Apr.
 Eduard Rhein prize, nominations, 474, July
 Royal Television Society News Awards Committee, extends award competition, 846, Dec.
 SMPTE Student Chapter Activities, 174, Mar.
 SMPTE/SPSE Student Chapter, RIT, begins academic year, 644, Sept.

PUBLICATIONS: FILMS

Broadcast Communications, new professional magazine, 784, Nov.
Hope Reports Quarterly, analysis of export, import audiovisual products, 174, Mar.
 Hope Reports, study, CCTV for surveillance, 62, Jan.
 International Resource Development, Inc., report, Integrated Video Terminal, 783, Nov.
 International Television Association, *Annual Salary Survey*, 716, Oct.
 Iowa State University, American Archives of Factual Film, 62, Jan.
 National Film Board of Canada, official film, Commonwealth Games, 62, Jan.
 A. C. Nielson's *Television Audience 1977* annual report, 478, July
Oscar's First Fifty Years, motion picture on Academy of Motion Picture Arts and Sciences, 408, June
Recommendations on Uniform Color Spaces, CIE Publication No. 15, 846, Dec.
The Engineer at Mid-Career published by IEEE, 846, Dec.

SCIENTIFIC AND TECHNICAL DEVELOPMENTS

Ampex Electronic Corp., television camera tube, 116, Feb.
 CBS, DISComputer, 259, Apr.
 ———, Sports coverage of Super Bowl, Electronic Palette; Action Track, 260, Apr.
 DeLuxe Laboratories, ion-exchange technique, 406, June
 Digital Noise Reduction System (DNR), patent granted J. Kenneth Moore, Arthur Kaiser and William E. Glenn, 118, Feb.
 GTE, research in flat panel displays, 716, Oct.
 Laser and Music Image Concert, Image Transform Inc., 783, Nov.
 Marconi Communications Systems Ltd., develops Marconite, 260, Apr.
 Old motion pictures, preserving color, laser technique, Charles S. Ih, 406, June
 Pace Water Recycling System, 718, Oct.
 Philips and MCA, Inc., development of optical videodisc, 64, Jan.
 Promo, pay-TV scrambling system, 716, Oct.
 RCA American Communications, earth station, 118, Feb.
 RCA Corp. introduces fiber optics data link, 261, Apr.
 Sony Tokyo, small CCD color video camera, 408, June
 ViewData, British Post Office Telecommunications, 118, Feb.

INTERNATIONAL COMMUNICATION

Audiovisual programs, UN conference on human settlements, *Cobley* and *Graham*, 218-221, Apr.

LABORATORY PRACTICE

Environmental Protection

Ferricyanide bleach regeneration, simplified electrolytic method for, *Kleppe* and *Nash*, 233-235, Apr.
 Waste treatment requirements, bleach system, for color positive, negative film reduces, *Dupree*, 84-88, Feb.

General

SMPTE Recommended Practice, Proposed, RP 23, Reinforcement of 70mm positive splices, 838, 841, Dec.

Printing

ANSI, Draft, PH22.153, Dimensions of Printed Area on 16mm Motion-Picture Film Perforated 8mm Type S (Super 8) (1.4), 598, 599, Sept.
 Color attenuation system for motion-picture printing, *Lewis*, 688-691, Oct.
 Color print film process, efficiency, improvements, *Seys*, 436-441, July
 Edge numbering, motion-picture film including polyester, ultraviolet-cured inks, *Anderson* and *Hakanson*, 749-752, Nov.

Flashing, Eastman Ektachrome video news film for intercutting with Eastman Ektachrome commercial film 7252, *Doddy, Lawton and Perry*, 373-375, June
 ISO 4241-1978 (E), Leaders and Run-Out Trailers for 35mm and 16mm Release Prints — Specifications, 516, 521-522, Aug.

Processing

Color print film process, efficiency, improvements, *Seys*, 436-441, July
 High-speed machine for film processing, using a helix-eliminating angle drive system, *Galvin*, 691-693, Oct.

LENSES (See OPTICS)

LIGHTING

Ad Hoc Group under SMPTE Standards Committee to study lighting-equipment accessories, 771, Nov.
 Compound-reflector framing spotlight, optimizing, *Lahrum*, 694-699, Oct.

MAGNETIC RECORDING TAPE

ANSI, C98.1-1978, Dimensions of 2-in Video Magnetic Recording Tape, 459, 460, July
 SMPTE Recommended Practice, Proposed, RP 36, Positioning the Headwheel and Adjacent Tape for 2-in Quadruplex Video Magnetic Tape Recorders, 393, 395, June
 SMPTE Recommended Practice, Proposed, RP 89, Dual-Program Audio for 2-in Quadruplex Video Magnetic Tape Recording at 15 and 7.5 in/s, 393, 396, June

MICROPROCESSORS

Television transmission systems, automatic, *Zborowski*, 383-385, June
 Videotape editing systems using microprocessors, *Hamalainen*, 379-382, June

NEW PRODUCTS AND DEVELOPMENTS

(Arranged by **Company**; see also listing by **Subject** below)

Acmade International, automatic film rewind table, Mark III, 809, Nov.
 ADDA Corp., Frame Synchronizer, Model VW-1, 422, June
 Adwar Video Corp., Color Hip Switcher II, 423, June
 ———, Titler-Keyer, Model TK-1, 423, June
 Allen Avionics, L-C delay line, 864, Dec.
 ———, L-C filters, 552, Aug.
 Allen Products Co., Ultima line of film processors, 481, July
 Altec Corp., audio time delay systems, 367, May
 American Laser Systems, remote control system, Model 748, 852-855, Dec.
 ———, television transmission set, 662, Sept.
 Amperex Electronic Corp., new 1-in Plumbicon, 548, Aug.
 Ampex Corp., color broadcast camera, BCC-14, 798, Nov.
 ———, digital time-base corrector, TBC-2, 734, Oct.
 ———, digital video recording system, 424, June
 ———, Duca-Richardson production switcher, PAL version, 862, Dec.
 ———, VPR-2 helical videotape recorders, 732, Oct.
 Angenieux Corp. of America, zoom lens, variable prime, 796, Nov.
 Arri Corp., Finder Extender for Arri 16SR, 416, June
 ———, 12-V/dc servo zoom drive motor, 742, Oct.
 ———, video coupling, video monitoring device for Arriflex 16SR, 416, June
 Atlas Sound, mobile studio boom, SB-100W, 555, Aug.
 ———, Porta-Series microphone floor stands, 740, Oct.

Audio Developments International, Dual Channel Automatic Graphic Equalizer, 368, May
 Avitel Electronics Ltd., video distribution amplifier, 864, Dec.
 Barco Electronic, 14-in color monitor, CTVM2 series, 662, Sept.
 Bell & Howell • Mamiya Co., Beaulieu 708 super-8 projector, 484, July
 ———, Filmosonic super-8 magnetic sound projectors, 557, Aug.
 ———, super-8 camera, low-light, magnetic sound, 554, Aug.
 ———, super-8 camera, 2144XL, 553, Aug.
 ———, super-8 silent camera, Model 2146XL, 196, Mar.
 ———, super-8 silent movie projector, Lumina II, Model QX95, 200, Mar.
 ———, two super-8 silent cameras, 2123XL and 2103XL, 196, Mar.
 Berkey Colortran Inc., 4000-W Soflite, 868, Dec.
 Berkey Colortran UK, multipurpose luminaire, 422, June
 Charles Beseler Co., Vu-Graph II overhead projector, 124, Feb.
 Birns & Sawyer, Inc., stopwatch, 669, Sept.
 Bogen Division/Lear Siegler, Inc., TCA-150, Tech-Craft Mixer/Power amplifier, 485, July
 Robert Bosch, television monitors, 190, Mar.
 ———, two-camera OB van, 194, Mar.
 Braun North America, Agfachrome super-8 film, 192, Mar.
 Carter Equipment Co., frame-count cueing system, 809, Nov.
 ———, printer-control tape-punching system, Model CE-CTPS-4, 809, Nov.
 ———, printer-control tape readers, 425, June
 Casio, pocket-size scientific calculators, 426, June
 CCA Electronics Corp., Constellation series audio console, 664, Sept.
 Century Precision Cine/Optics, Tele-Athenar II lenses, 548, Aug.
 Channelmatic, Inc., Teldav 400 video distribution amplifier, 194, Mar.
 Chartwell Electro-Acoustics Ltd., monitor loudspeaker, PM450, 198, Mar.
 Chemtronics Inc., Vibra-Jet, 266, Apr.
 Christie Electric Corp., Projector-Protector film cleaner, 485, July
 Chyron Telesystems, graphics and titling system, 661, Sept.
 ———, videocassette cleaner and evaluator, Model U-1, 265, Apr.
 Cinema Products Corp., conversion kit for Steadicam, 263, Apr.
 ———, CP-16R, CP-16R/A reflex cameras, new generation, 855-858, Dec.
 ———, ENG/EFP camera, MNC-71CP, 190, Mar.
 ———, GSMO 16mm mini-camera, 263, Apr.
 ———, Steadicam/Arri 35B1 modification package, 263, Apr.
 ———, ultra-high speed prime lenses for 16mm, 548, Aug.
 Cohu, Inc., color television camera system, Model 1420, 848, Dec.
 ———, Isocon television camera system, low light levels, 800, Nov.
 ———, low-light, single-tube color Isocon camera system, 848, Dec.
 ———, television camera for unattended operation, 848, Dec.
 ———, video cable equalizer, 9800 series, 664, Sept.
 Colorado Video, Inc., compressed video system, 552, Aug.
 ———, video expander, Model 275, 660, Sept.
 ———, video frame store, Model 274, 806, Nov.
 Comprehensive Video Supply Corp., crimp connector kits, 808, Nov.
 ———, shot-gun microphone, SGM-2, 557, Aug.
 ———, video cabling accessories, 865, Dec.
 Consolidated Video Systems, digital time-base corrector, CVS-516, 68, Jan.
 ———, EPIC editor, 732, Oct.
 ———, Image Enhancer/Noise Reducer, 862, Dec.
 Continental Camera Systems, Body Mount, hand-held camera stabilization system, 194, Mar.
 ———, Nose Cone Camera Position, 416, June

————, Pitching Lens, relay lens, 196, Mar.
 ———, P.O.V. 35 mm Helmet Camera, 192, Mar.
 Continental Specialties Corp., Design Mate-2 waveform function generator, 738, Oct.
 ———, digital logic probe, Model LP-1, 864-865, Dec.
 ———, 50-500 counter, 664, Sept.
 ———, Logic Monitor, model LM-1, 669, Sept.
 ———, Max-100 frequency counter, 369, May
 Convergence Corp., AVS-100 Audio Video Switcher, 808, Nov.
 ———, CL-100 Cut/Lap Transition Programmer, 660, Sept.
 ———, ECS-100 Superstick Editing Control Systems, 482, July
 ———, Joystick Editing Control System, 418, June
 ———, time-code reader system, TCR-100, 804, Nov.
 ———, TT-100 dual digital tape timer, 807, Nov.
 dbx, Inc., add-on tape noise reduction system, 124, Feb.
 Derek, Inc., Electro-Lite silver recovery system, 425, June
 Digital Video Systems, DPS-1 all-digital video processing system, 362, May
 D.O. Industries, Navitar slide projection lenses, 745, Oct.
 ———, Navitar zoom lens, 865-866, Dec.
 ———, zoom lens for slide projectors, 808, Nov.
 Drexler Technology Corp., laser recording material, 864, Dec.
 Victor Duncan, Inc., Arriflex 16-SR combined with Nagra SNN, 122, Feb.
 Dynair Electronics, Inc., audio and video switch modules, 364, May
 ———, color sync generator, Model SY-5990A, 192, Mar.
 Dynasciences, program switcher, model 7400/A, 68, Jan.
 ———, routing switchers, 8500 series, 424, June
 ———, video distribution amplifiers, 423, June
 ———, video enhancer, 802, Nov.
 Eastman Kodak Co., microfilm products, 126, Feb.
 Echo Science Corp., slow-motion machine, SLO/MO-1, 68, Jan.
 Eckel Industries, Inc., Portable An-Eck-Oic Chambers, 484, July
 Edcor, amplifier for driving headphones, AP-10, 665, Sept.
 ———, Calrec Sound Field Microphone, 483, July
 ———, wireless microphone receiver, ST-3B, 665, Sept.
 ———, wireless microphone transmitter/receiver, 123, Feb.
 EECO, MTG 550 series time-code generators, 660, Sept.
 Ehrenreich Photo-Optical Industries, Bolex sound mixing console, 368, May
 ———, Bolex 5122 super-8 sound camera, 122, Feb.
 ———, Bolex 625-XL super-8 silent camera, 196, Mar.
 ———, tripod with fluid head, 808, Nov.
 Eico Electronic Instrument Co., multimeters, 668, Sept.
 Eigen Video, Chroma III color signal system for slow-motion disc recorders, 660, Sept.
 ———, color disc recorder, Model 15, 66, Jan.
 Electro-Voice, Inc., System C microphone system, 124, Feb.
 Eprad, Inc., Galaxy stereo-optical sound system package, 804, Nov.
 Eumig, super-8 sound projectors, 666, Sept.
 Eventide Clockworks, Inc., microprocessor-controlled remote control card, 555, Aug.
 Farinor Electric, single-channel microwave receiver, 483, July
 Yves Faroudja Inc., YFI comb filter separator, 807, Nov.
 ———, YFI record booster, 862, Dec.
 Flann Microwave Instruments Ltd., microwave signal generators, 68, Jan.
 Fotomatic Corp., monocular type light meter, 204, Mar.
 Frezzolini Electronics Inc., battery sequencer, 486, July

- , Frezzi Belt battery pack, Model F 12-77, 554, Aug.; 742, Oct.
- , Model BC-77 rapid charger for Frezzi-Belt battery packs, 264, Apr.
- Fuji Photo Film U.S.A., Beridox tape, 68, Jan.
- , 8mm camera, Fujica P-2, 866, Dec.
- General Electric, Multi-Mirror 50-h EJL projector lamp, 669, Sept.
- Alan Gordon Enterprises, Director's Viewfinder 10:1 zoom, 416, June
- Gray Engineering Laboratories, reader-character unit, Model DR-115, 732, Oct.
- Grinnel Systems Corp., graphic television display, GMR-27, 66, Jan.
- Hammond Industries, Inc., audio frequency response analyzer, RA200&ADSI, 666, Sept.
- , two microphones, 740, Oct.
- Harris Corp., audio processor, MSP-100, 665, Sept.
- , color television camera, TC-50, 548, Aug.
- , CPV circularly polarized television antenna, 734, Oct.
- , modular mono/stereo audio console, 420, June
- Karl Heitz, Angenieux 15 × 6 to 90mm zoom lenses, 70, Jan.
- , Pathé Report electronic cameras, 69, Jan.
- Hewlett-Packard, counter-timer, 865, Dec.
- , CRT display module, Model 1340A, 483, July
- , Delta Time Oscilloscope, Model 1742A, 808, Nov.
- , digital multimeter, Model 3466A, 123, Feb.
- , handheld calculators, series E, 668, Sept.
- , microwave frequency counter, Model 5342A, 265, Apr.
- , option H10 to extend frequency range for Model 5342A microwave frequency counter, 664, Sept.
- , oscillator, Model 339A distortion measuring set, 200, Mar.
- , RF sweeper plug-ins, 265, Apr.
- , spectrum analyzer, Model 3582A, 736, Oct.
- Houston Fearless, Colomaster film processors, advanced, 798, Nov.
- Image Devices Inc., IDI Data Slate I, 742, Oct.
- Innovative Television Equipment, pedestal for studio, ENG cameras, 658, Sept.
- , tripod for ENG cameras, 744, Oct.
- Inovonics, Inc., acoustic analyzer, Model 500, 266, Apr.
- Instrumentation Marketing Corp., Photo-Sonics Model 80 automatic film reader, 122, Feb.
- Ivie Electronics, handheld audio analysis system, 202, Mar.
- JVC Industries, Inc., electronic video editing recorder, CR-8500LU, 659, Sept.
- , Vidstar VHS video home system, 192, Mar.
- Kalart Victor Corp., 16mm projectors, 418, June
- Kay Industries Inc., Phasemaster rotary phase converter, 426, June
- Ken-Lab, Inc., Gyro Stabilizer systems, 122, Feb.
- Kinetronics Corp., liquid application film cleaning machine, LC-500, 556, Aug.
- KLM Associates, Inc., electronic counter, 557, Aug.
- , Oldelft electronic counter, 804, Nov.
- , Optical Crown system, 804, Nov.
- La Vezzi Machine Works, Inc., VKF (Very Kind to Film) sprockets, 867-868, Dec.
- , Posi-Trol positive control sprockets, 742, Oct.
- Leader Instruments Corp., oscilloscope, LBO-507, 265, Apr.
- Lenco, Inc., color bar generator, 860, Dec.
- , monochrome video monitors, 862, Dec.
- , video noise meter, Model VNM-428, 800, Nov.
- Listec Television Equipment Corp., Telecue Monitor Prompting System, 420, June
- , Vinten TriTrack tracking base, 800, Nov.
- Lowel-Light Mfg., Inc., Omni-Light, 554, Aug.
- LTM Corp. of America, Reporter Lighting Kit, 554, Aug.
- Magnasync/Moviola Corp., insert recorder/reproducer, Series 3000, 555, Aug.
- , magnetic sound film recorders, reproducers, 800, Nov.
- Marconi Electronics, Mark IX color television camera, 656, Sept.
- Marconi Instruments, AM/FM signal source, 662, Sept.
- , computer interface model SA1142, 420, June
- Marconi Instruments Ltd., spectrum analyzer, 666, Sept.
- Matsumita Electric, VISC home videodisc player system, 190, Mar.
- Matthey Printed Products Ltd., Automatic Video Equaliser 2504N, 730, Oct.
- , unified noise weighting filter, 424, June
- Media Concepts, JVC Vidstar VHS ½-in videocassette system, 552, Aug.
- Memorex Corp., MRX-716 1-in videotape, 659, Sept.
- , videocassette, the Q₂HD, 424, June
- Miami Flock Equipment Co., projection television kit, Model Q-12, 484, July
- Microtime, Inc., 2020 Plus Total Signal Corrector, 264, Apr.
- Miller Professional Equipment, tripod spreader, 658, Sept.
- MM Editing Systems, Inc., Bogen magnetic heads, 200, Mar.
- Muirhead Inc., M-136 electrostatic facsimile receiver, 202, Mar.
- NEC America, FS-15 FE device to eliminate expanded blanking, 855, Dec.
- , television transmitter, 663, Sept.
- Neilson-Hordell Ltd., animation camera, 858, Dec.
- , Moviecam, 796, Nov.
- Neumade Products Corp., Neutaper film splicer, 204, Mar.
- , Neuvator II, 16mm film cleaner, 71, Jan.
- Neve Electronics International Ltd., multitrack audio recording consoles, 740, Oct.
- Oktel Corp., broadcast videodisc recorders, 418, June
- Opamp Labs Inc., 10 × 10 matrix, 740, Oct.
- Optical Radiation Corp., C.A.T. (complete automated theater), 367, May
- , xenon slide projection system with FM module, 667, Sept.
- Orrox Corp., Magamite, tip material, 807, Nov.
- Otari Corp., audio recorder, Model MX-5050-B, 740, Oct.
- P.A.G. Films Ltd., Mini-Rack, 16mm magnetic film audio recorder; also High Speed Broadcast 16 recorder/reproducer, 738, Oct.
- P.A.G. Power Ltd., Speedcharge Battery Belts, 742, Oct.
- Panasonic, videocassette recorders, Omnivision II line, 855, Dec.
- , vidicon camera, WV1000A and Newvicon CCTV cameras, 848-852, Dec.
- Pelco Industries, AP-2500 Antenna Positioning System, 264, Apr.
- Peterson Enterprises, Inc., frame-count cueing system, 481, July
- , illumination probe, 481, July
- , motor-driven film loop cabinets, 482, July
- Philips Audio Video Systems Corp., analog tapped audio delay line, 484, July
- , Audiotracer, Model 3201, 556, Aug.
- , LDK 25 multicore studio, field camera, 728, Oct.
- , portable television camera, LDK 15L, 728, Oct.
- , 22-kw VHF lowband television transmitter, 736, Oct.
- N.V. Philips Gloeilampenfabrieken, television pattern generator, 860, Dec.
- Photomec, 2000 series film processors, 798, Nov.
- Photo Research Div. of Kollmorgen Corp., Spectra Photometer/Radiometer, Model 301, 809, Nov.
- PRC of America, super-8 1200-ft Plio-Magic plastic reel, 669, Sept.
- , two new film leaders, 481, July
- Rank Precision Industries, Rank Cintel MK III Flying Spot color telecine, 362, May
- Rank Strand Electric, Duet packaged memory lighting control system, 867, Dec.
- RCA Broadcast Systems, automation accessory for the TCR-100 cartridge recorder, 736, Oct.
- , digital video frame synchronizer, TFS-121, 730, Oct.
- , TH-100 videotape recorder, 658, Sept.
- , time-code editing system for TR-600 videotape recorders, 734, Oct.
- , TK-47 television camera, 656, Sept.
- , TK-760 studio field camera, improved, 728, Oct.
- , TKP-46 Portable Production Camera, 848, Dec.
- RCA Consumer Electronics, ChanneLock tuning system, 738, Oct.
- , SelectaVision, expanded line, 852, Dec.
- RCA Corp., dual magnetic reproducer system, PM 85 SL, 198, Mar.
- , SelectaVision, VCT400, 666, Sept.
- , SelectaVision videocassette recorder, 66, Jan.
- RCA Photophone Systems, dual magnetic reproducer, PM 85SL, 366, May
- Research Technology Inc., A-M-M-S (Automated Media Management Systems), 425, June
- , Edette film viewer, 482, July
- , Omega film care system, 482, July
- , Retec film storage system, 486, July
- Reticon Corp., tunable filter on a chip, 734, Oct.
- Rockwell International, Electronic Systems Group, ADAP automatic digital audio processor, 485, July
- RTS Systems, preamp/limiter, 70, Jan.
- Sachtler GmbH, fluid head Standard 7+7, 858, Dec.
- Sankyo Seiki (America), Stereo-800, super-8 sound projector, 484, July
- , super-8 camera, ES-88XL, 553, Aug.
- , super-8 camera, ES-44XL VAF, 553, Aug.
- , super-8 camera, LXL-225, 554, Aug.
- , super-8 camera, Sound XL 800S, 867, Dec.
- , super-8 camera, XL 61-200, 553, Aug.
- Schneider Corp. of America, AnimeX anamorphic projection lens, 667, Sept.
- Sharp Electronics Corp., closed-circuit color camera, XC-300U, 263, Apr.
- , projection television system, 802, Nov.
- , special effects generator, XEG-3000, 662, Sept.
- , sync generator system (XSG-370), 862, Dec.
- , three-tube ENG color television camera, 730, Oct.
- Simon & Associates, dissolve unit for slides, Entree 7600A, 667, Sept.
- Sira Institute Ltd., television and lens testing set, 860, Dec.
- Skotel Corp., time-code generator, 424, June
- , time-code reader, Model TCR-80, 806, Nov.
- Eric Small & Associates, Telesis, control of AM, FM and TV transmitters, 369, May
- , Telesis, transmitter control system, 425, June
- Sonar Radio Corp., Videoraser, 736, Oct.
- Spindler & Sauppe, Inc., Director 24, audiovisual memory programming system, 667, Sept.
- , Spectrum 32 television slide projector, 858, Dec.
- Super8 Sound, MKM editing table, new version, 369, May
- Telecommunications Industries Ltd., Porta-Pattern chart carrier, 658, Sept.
- Telegen Inc., Crisp-Matic image enhancer, PAL/SECAM version, 68, Jan.
- , YFI comb filter separator, 807, Nov.
- , YFI record booster, 862, Dec.
- TeleMation, Inc., status light display, SM-1030, 69, Jan.
- , TMM-205 Multiplexer, 264, Apr.
- Television Equipment Associates, headset tester, 665, Sept.
- , unified noise weighting filter, 424, June
- TeleVue Optics, Inc., television projection lenses, 69, Jan.

The Great American Market, Fresnel lens spotlight, 745, Oct.
 ———, Greatmark Lights, 744, Oct.
 ———, patterns for projection in spotlights, 202, Mar.
 3M Company, digital effects generator, 802, Nov.
 ———, extended-play U-Matic cassettes, 192, Mar.
 ———, horizontal enhancement module, 864, Dec.
 ———, 1-in master broadcast videotape, 552, Aug.
 ———, studio production switcher, Model 9000, 550, Aug.
 ———, television character generator, 422, June
 ———, television image enhancer/decoder, 422, June
 Tiffen Manufacturing Corp., slide sync audio recorder/player, AV7202, 369, May
 ———, sync dissolve programmer, SD70, 557, Aug.
 Treise Engineering Inc., closed loop system, Model 22, 810, Nov.
 Tritex Telecommunications, Inc., low-pass filters, series 1000, 730, Oct.
 Tweed Audio, audio mixing console, 555, Aug.
 Twenty-Fourth Frame, pitch correction system, 124, Feb.
 Ultra Audio Pixtec, NTSC studio vectorscope, 663, Sept.
 ———, NTSC sync generator, 860-862, Dec.
 Ultra Audio Products, audio console, 866, Dec.
 Unitel, Scriptel P, character generator, 802, Nov.
 Unity Power Systems Northeast, power systems transient protectors, 126, Feb.
 Variable Speech Control Co., module for speech compression, pitch correction, 867, Dec.
 Video Automation Systems, Inc., anti-piracy videocassette program protection system, 552, Aug.
 Video Components, Inc., Eclipser signal processor, 264, Apr.
 Videokalos Studios, color synthesizer, 661, Sept.
 Videomax, Magemite, tip material, 807, Nov.
 Videomedia audiovisual kit, 732, Oct.
 ———, modification package for Panasonic ¾-in editing controllers, 804, Nov.
 ———, production audio mixer, model S6/2, 664, Sept.
 W. Vinten Ltd., OB camera crane, 418, June
 ———, TriTrack tracking base, 800, Nov.
 Visual Information Institute, Signal Source 10, set of signals for display setup, 550, Aug.
 ———, television test instruments, 556, Aug.
 Visual Instrumentation Corp., Selecta-Frame 5, 16mm analysis projector, 806, Nov.
 Visual Methods, Inc., pinhole lens, 852, Dec.
 VIZ Mfg. Co., general purpose VOM, 745, Oct.
 ———, WD-752A frequency counter, WD-751A digital VOM, price reductions, 738, Oct.
 Westrex, Nuoptix FR-1 system for recording optical soundtracks on photographic film, 364, May
 Wide Range Electronics Corp., magnetic film sound recorders, reproduces, series 3600, 664, Sept.
 Winsted Corp., cabinets for tape and film storage, 369, May
 ———, video console, 368, May
 Zei-Mark Corp., broadcast optical multiplexer, Model 750, 734, Oct.

NEW PRODUCTS AND DEVELOPMENTS

(Arranged by **Subject**; see also listing by **Company** above)

CAMERAS (including high-speed), attachments and related equipment (see also TELEVISION)

Animation camera, Neilson-Hordell Ltd., 858, Dec.
 Arriflex 16SR combined with Nagra SNN, Victor Duncan, Inc., 122, Feb.
 Battery sequencer, Frezzolini Electronics Inc., 486, July
 Body Mount, handheld camera stabilization system, Continental Camera Systems, 194, Mar.

Color Hip Switcher II editing device, Adwar Video Corp., 423, June
 Director's Viewfinder, Alan Gordon Enterprises Inc., 416, June
 Fast Charger, BC-77, Frezzolini Electronics Inc., 264, Apr.
 Finder Extender for Arri 16SR cameras, Arri Corp., 416, June
 Fluid head Standard 7+7, Sachtler GmbH, 858, Dec.
 Frezzi Belt Battery Pack, F-12-77, Frezzolini Electronics Inc., 554, Aug.
 Fujica P-2, 8mm camera, Fuji Photo Film, U.S.A., 866, Dec.
 GSMO 16mm mini-camera, Cinema Products Corp., 263, Apr.
 Gyro Stabilizer systems, Ken-Lab, Inc., 122, Feb.
 Helmet camera, P.O.V. 35mm, Continental Camera Systems, 192, Mar.
 Moviecam 3 camera, Neilson-Hordell Ltd., 796, Nov.
 Nose Cone Camera Position, Continental Camera Systems, 416, June
 Pathé Report electronic cameras, Karl Heitz, 68, Jan.
 Reflex cameras, CP-16R and CP-16R/A, improvements, Cinema Products Corp., 855-858, Dec.
 Servo zoom drive motor, Arriflex Corp., 742, Oct.
 Steadicam/Arri 35BL modification package, Cinema Products Corp., 263, Apr.
 Steadicam, conversion kit, Cinema Products Corp., 263, Apr.
 Super-8 camera, Bolex 5122, Ehrenreich Photo-Optical Industries, 122, Feb.
 Super-8 camera, Bolex 625-XL, Ehrenreich Photo-Optical Industries, Inc., 196, Mar.
 Super-8 camera, ES-88XL, Sankyo Seiki (America), 553, Aug.
 Super-8 camera, ES-44XL VAF, Sankyo Seiki (America), 553, Aug.
 Super-8 camera, LXL-225, Sankyo Seiki (America), 554, Aug.
 Super-8 camera, SoundStar, Bell & Howell • Mamiya Co., 554, Aug.
 Super-8 camera, Sound XL 800S, Sankyo Seiki (America) Inc., 867, Dec.
 Super-8 camera, 2144XL, Bell & Howell • Mamiya Co., 553, Aug.
 Super-8 camera, XL 61-200, Sankyo Seiki (America), 553, Aug.
 Super-8 camera, 2146XL, Bell & Howell • Mamiya Co., 196, Mar.
 Super-8 cameras, Models 2123XL and 2103XL, Bell & Howell • Mamiya Co., 198, Mar.
 Sync generator system, Sharp Electronics Corp., 862, Dec.
 Tripod spreader, Miller Professional Equipment, 658, Sept.
 Tripod with fluid head, Ehrenreich Photo-Optical Industries, 808, Nov.
 Video coupling, monitoring system for Arriflex 16SR, Arri Corp. 416, June

FILM AND TAPE

Agfachrome super-8 film, Agfa-Gevaert (Braun North America dist.), 192, Mar.
 Beridox tape for ¾-in U-Matic videocassettes, Fuji Photo Film U.S.A., 68, Jan.
 Cabinets for tape and film storage, Winsted Corp., 369, May
 Microfilm products, Eastman Kodak Co., 126, Feb.
 MRX-716 1-in videotape, Memorex Corp., 659, Sept.
 Posi-Trol positive control sprockets, LaVezzi Machine Works, Inc., 742, Oct.
 Retec film storage system, Research Technology Inc., 486, July

GENERAL

Automated Media Management Systems, Research Technology Inc., 425, June
 Chart carrier, Telecommunications Industries, Ltd., 658, Sept.
 Crimp connector kits, Comprehensive Video Supply Corp., 808, Nov.
 Frezzi Belt Battery Pack, Model F-12-77, Frezzolini Electronics Inc., 742, Oct.

IDI Data Slate I, Image Devices Inc., 742, Oct.
 Plio-Magic plastic reel, super-8, PRC of America, 669, Sept.
 Speedcharge Battery Belts, P.A.G. Power Ltd., 742, Oct.
 Vibra-Jet, Chemtronics Inc., 266, Apr.

LABORATORY PRACTICE (printing, processing, editing, etc.)

CL-100 Cut/Lap Transition Programmer, Convergence Corp., 660, Sept.
 Edette, film viewer, Research Technology, Inc., 482, July
 Electro-Lite silver recovery system, Derek, Inc., 425, June
 Electronic counter, KLM Associates, 557, Aug.
 Film cleaning machine, LC-500, Kintronics Corp., 556, Aug.
 Film loop cabinets, Peterson Enterprises, 482, July
 Film processors, Advanced Colormaster, Houston Fearless, 798, Nov.
 Film processors, compact 2000 series, Photomec Ltd., 798, Nov.
 Frame count cueing system, Peterson Enterprises, Inc., 481, July
 Joystick editing control system, ECS-IBVU, Convergence Corp., 418, June
 MKM/Super8 Sound editing table, new version, Super8 Sound Inc., 369, May
 Modification package for Panasonic ¼-in editing controllers, 805, Videomedia, Nov.
 Neutaper splicer, Neumade Products Corp., 204, Mar.
 Neuvator II, automatic 16mm film cleaner, Neumade Products Corp., 71, Jan.
 Oldelft electronic counter, KLM Associates, 804, Nov.
 Omega film care system, Research Technology, Inc., 482, July
 Optical Crown system, KLM Associates, 804, Nov.
 Printer control tape readers, Carter Equipment Co., 425, June
 Superstick editing control systems, ECS-100 series, Convergence Corp., 482, July
 Time-code reader system TCR-100, option for ECS-100 Superstick editing systems, Convergence Corp., 804, Nov.
 Ultima film processors, Allen Products Co., 481, July

LENSES, OPTICS

Angenieux zoom lens, Karl Heitz, 70, Jan.
 Lenses, 16mm, ultra-high-speed, Cinema Products Corp., 548, Aug.
 Monocular type light meter, Fotomatic Corp., 204, Mar.
 Navitar zoom lens, D.O. Industries, 865-866, Dec.
 Projection lens, Jos. Schneider & Co., 667, Sept.
 Relay lens, Continental Camera Systems, 196, Mar.
 Tele-Athena II lenses, Century Precision Cine/Optics, 548, Aug.
 Zoom lens for slide projectors, D. O. Industries, 808, Nov.
 Zoom lens, variable prime, Angenieux Corp. of America, 796, Nov.

LIGHTING

Duet packaged memory lighting control system, Rank Strand Electric, 867, Dec.
 Fresnel lens spotlight, The Great American Market, 745, Oct.
 Greatmark Lights, The Great American Market, 744, Oct.
 Multipurpose luminaire, Berkey Colortran U.K., 422, June
 Omni-Light focusing spotlight, Lowel-Light Mfg., Inc., 554, Aug.
 Patterns for projection in spotlights, The Great American Market, 202, Mar.
 Reporter Lighting Kit, LTM Corp. of America, 554, Aug.
 Softlite, 4000-W, Berkey Colortran, Inc., 868, Dec.
 Status light display, SM-1030, TeleMation, Inc., 69, Jan.

PROJECTORS, PROJECTION EQUIPMENT

Automatic film rewind table, Mark III, Acmade International, 809, Nov.
C.A.T. complete automated theater, Optical Radiation Corp., 367, May
Closed loop system, Model 22, Treise Engineering, Inc., 810, Nov.
Dissolve unit, Entre 7600A, Simon & Associates, 667, Sept.
Easy-Load 16mm projectors, Kalart Victor Corp., 418, June
Film leaders, PRC of America, 481, July
Film sprockets, LaVezzi Machine Works, 867-868, Dec.
Filmosonic super-8 projectors, Bell & Howell • Mamiya Co., 557, Aug.
Microprocessor-based audiovisual multi-image memory programming system, Director 24, Spindler & Sappe, Inc., 667, Sept.
Multiplexer, TMM-205, TeleMation, 264, Apr.
Navitar slide projection lenses, D. O. Industries, 745, Oct.
Projector lamp, Multi-Mirror 50-h EJL, General Electric, 669, Sept.
Projector-protector film cleaner, Christie Electric Corp., 485, July
Selecta-Frame 5, 16mm analysis projector, Visual Instrumentation Corp., 806, Nov.
Super-8 projector, Beaulieu 708 EL, Bell & Howell • Mamiya Co., 484, July
Super-8 projector, Lumina II, Bell & Howell • Mamiya Co., 200, Mar.
Super-8 projector, Stereo-800, Sankyo Seiki (America), 484, July
Super-8 sound projectors, Eumig (U.S.A.), 666, Sept.
Vu-Graph II overhead projector, Charles Beseler Co., 124, Feb.
Xenographic 500FM xenon slide projection system, Optical Radiation Corp., 667, Sept.

SOUND

Acoustic analyzer, Model 500, Inovonics, Inc., 266, Apr.
Add-on tape noise reduction system for Nagra IV-S portable stereo recorders, dbx, Inc., 124, Feb.
Amplifier for driving headphones, Edcor, 665, Sept.
Analog tapped audio delay line, Neutrik AD-4, Philips Audio Video Systems Corp., 484, July
An-Eck-Oic chambers, acoustic studies, Eckel Industries, 484, July
Audio analysis system, IE-30A, Ivie Electronics, 202, Mar.
Audio console, Constellation series, CCA Electronics Corp., 664, Sept.
Audio console, MS-105 Mixmaster, Ultra Audio Products, 866, Dec.
Audio mixer, Model S6/2, VIF International, 664, Sept.
Audio mixing console, Tweed Audio, 555, Aug.
Audio processor, AM, FM, television, MSP-100, Harris Corp., 665, Sept.
Audio recorder, Model MX-5050-B, Otari Corp., 740, Oct.
Audio time delay systems, Altec Corp., 367, May
Audiotracer, Model 3201, Philips Audio Video Systems Corp., 556, Aug.
Automatic Graphic Equaliser, Type 1500, Audio Developments International, 368, May
Bogen magnetic heads, MM Editing Systems, Inc., 200, Mar.
Bolex sound mixing console, Ehrenreich Photo-Optical Industries, 368, May
Calrec sound field microphone, CM4050, Edcor, 483, July
Digital audio processor, Rockwell International, Electronic Systems Group, 485, July
Galaxy stereo-optical sound system package, Eprad, Inc., 804, Nov.
Headset tester, Television Equipment Associates, 665, Sept.
Magnetic film sound recorders, reproducers, Wide Range Electronics Corp., 664, Sept.
Magnetic sound film recorders/reproducers, Magnasync/Moviola Corp., 800, Nov.
Mini-Rack, 16mm magnetic film audio recorder, P.A.G. Films Ltd., 738, Oct.

Mixer/power amplifier, TCA 150 Tech-Craft, Bogen Division/Lear Siegler, Inc., 485, July
Modular microphone, System C, Electro-Voice, Inc., 124, Feb.
Module for speech compression, Model M-8, 867, Dec.
Monitor loudspeaker, PM450, Chartwell Electro-Acoustics Ltd., 198, Mar.
Mono/stereo audio console, M90, Harris Corp., 420, June
Multitrack audio recording consoles, Neve Electronics International Ltd., 740, Oct.
Nuoptix FR-1 system for recording optical soundtracks on film, Westrex, 364, May
Pitch correction system, Twenty-Fourth Frame, 124, Feb.
Porta-Series microphone floor stands, Atlas Sound, 740, Oct.
Preamp/limiter, RTS 1400, RTS Systems, 70, Jan.
Remote control card, microprocessor-controlled, Eventide Clockworks, Inc., 555, Aug.
Shot-gun microphone, Model SGM-2, Comprehensive Video Supply Corp., 557, Aug.
Shotgun microphones, Hammond Industries Inc., 740, Oct.
Slide Sync Audio recorder/player, Tiffin Manufacturing Corp., 369, May
Studio boom, American Trading and Production Corp., 555, Aug.
Wireless microphone receiver, ST-3B, Edcor, 665, Sept.
Wireless microphone transmitter/receiver, Encore Pro-1/2 system, Edcor, 123, Feb.

TELEVISION (cameras, projectors, tubes, special applications, videotape and recorders, display systems, cassettes, videodisks, editing, etc.)

Antenna positioning system for ENG, AP-2500, Pelco Industries Inc., 264, Apr.
Anti-piracy videocassette program protection system, Video Automation Systems Inc., 552, Aug.
Audio and video switching modules, Series 5900, Dynair Electronics, Inc., 364, May
Audio video switcher, AVS-100 Convergence Corp., 808, Nov.
Audiovisual kit, Videomedia, 732, Oct.
Automatic video equalizer, 2504N, Matthey Printed Products Ltd., 730, Oct.
Automation accessory for the TCR-100 cartridge recorder, RCA Broadcast Systems, 736, Oct.
Chroma III, color signal system for slow-motion disc recorders, Eigen, 660, Sept.
Chyron IV, graphics and titling system, Chyron Corp., 661, Sept.
Closed-circuit color television camera, XC-300U, Sharp Electronics Corp., 263, Apr.
Color disc recorder, Eigen Video, 66, Jan.
Color monitor, Barco Electronic, 662, Sept.
Color sync generator, Model SY 5990A, companion genlock, Dynair Electronics, Inc., 192, Mar.
Color television camera, TC-50, Harris Corp., 548, Aug.
Colour Synthesiser, Videokalos Studios, 661, Sept.
Compressed video system, Model 260B, Colorado Video, Inc., 552, Aug.
CPV circularly polarized television antenna, Harris Corp., 734, Oct.
Crisp-Matic image enhancer, PAL/SECAM version, Telegen, 68, Jan.
CRT display module, Hewlett-Packard, 483, July
Digital effects generator, Model 5130, 3M Company, 802, Nov.
Digital time-base corrector, CVS-516, Consolidated Video Systems, 68, Jan.
Digital time-base corrector, TBC-2, Ampex Corp., 734, Oct.
Digital video frame synchronizer, TFS-121, Sharp Electronics Corp., 730, Oct.
Digital video recording system, Ampex Corp., 424, June
Dual magnetic reproducer system, PM-85SL, RCA Corp., 198, Mar.
Eclipsor signal processor, Video Components, Inc., 264, Apr.
Electrostatic Facsimile Receiver, M-136, Muirhead Inc., 202, Mar.

ENG/EFP camera, MNC-71CP, Cinema Products Corp., 190, Mar.
Environmental color television camera, Model 1420, Cohu, Inc., 848, Dec.
EPIC editor, Consolidated Video Systems, 732, Oct.
Flying-spot color telecine, MK III, Rank Precision Industries, 362, May
Frame Synchronizer, Model VW-1, ADDA Corp., 422, June
Frequency counter, MAX-100, Continental Specialties Corp., 369, May
FS-15 FE device to eliminate expanded blanking, NEC America, 855, Dec.
Helical videotape recorder, VPR-2, Ampex Corp., 732, Oct.
Horizontal enhancement module, 3M Company, 864, Dec.
Image Enhancer/Noise Reducer, CVS 310, Consolidated Video Systems, 862, Dec.
Insert recorder/reproducer, Series 3000, Magnasync/Moviola Corp., 555, Aug.
Isocon television camera system, Cohu, Inc., 800, Nov.; 848, Dec.
JVC Vidstar VHS videocassette system, Media Concepts, Inc., 552, Aug.
Laser-recording material for videodisks and digital data storage, Drexler Technology Corp., 864, Dec.
L-C delay line, Allen Avionics, Inc., 864, Dec.
L-C filters, Allen Avionics, 552, Aug.
Low-Pass filters, series 1000, Tritex Telecommunications, Inc., 730, Oct.
Magamite, long-life tip material, Videomax, 807, Nov.
Mark IX color television camera system, Marconi Electronics, Inc., 656, Sept.
Master broadcast videotape, 3M Company, 552, Aug.
Microwave receiver, earth terminals, Farinon Electric, 483, July
Monochrome video monitors, Lenco, Inc., 862, Dec.
Multicore studio/field camera, LDK 25, Philips Broadcast Equipment, 728, Oct.
OB van, Robert Bosch GmbH, 194, Mar.
I-in Plumbicon, Ampere Electronic Corp., 548, Aug.
Optical multiplexer, Model 750, Zei-Mark Corp., 734, Oct.
Pedestal, Innovative Television Equipment, 658, Sept.
Phasemaster rotary phase converter, Kay Industries, 426, June
Portable broadcast camera, BCC-14, Ampex Corp., 798, Nov.
Production switcher, Duca-Richardson model, Ampex Corp., 862, Dec.
Program switcher, Model 7400/A, Dynasciences, 68, Jan.
Projection television kit, Model Q-12, Miami Flock Equipment Co., 484, July
Projection television system, Sharp Electronics Corp., 802, Nov.
Reader-character unit, Gray Engineering Laboratories, 732, Oct.
Remote control system, American Laser Systems, 852-855, Dec.
Right-angle pinhole lens, Visual Methods, Inc., 852, Dec.
Routing switchers, 8500 series, Dynasciences, 424, June
Scriptel P, microprocessor-controlled digital character generator, Unitel, 802, Nov.
SelectaVision products, RCA Consumer Electronics, 852, Dec.
SelectaVision videocassette recorder, RCA Corp., 66, Jan.; 666, Sept.
Signal Corrector, Microtime, Inc., 264, Apr.
Signal Source 10, Visual Information Institute, 550, Aug.
Slow-motion machine, SLO/MO-1, Echo Science Corp., 68, Jan.
Special effects generator, XEG-3000, Sharp Electronics Corp., 662, Sept.
Spectrum 32 Selectroslide television slide projector, Spindler & Sappe, Inc., 858, Dec.
SqueezeZoom, Vital Industries, 422, June
Studio production switcher, Model 9000, 3M Company, 550, Aug.

Sync Dissolve Programmer, Model SD70, Tiffen Manufacturing Co., 557, Aug.
 Sync generator, Ultra Audio Pixtec, 860-862, Dec.
 Telecue Monitor Prompting System, Listec Television Equipment Corp., 420, June
 Telesis, system for control of television transmitters, Eric Small & Associates, 369, May
 Television camera, LDK 15L, Philips Broadcast Equipment Corp., 728, Oct.
 Television camera, TK-760, improved, RCA Broadcast Systems, 728, Oct.
 Television camera, unattended operation, Model 2810 B, Cohu, Inc., 848, Dec.
 Television character generator, Model D-3016, 3M Company, 422, June
 Television display system, GMR-27, Grinnel Systems Corp., 66, Jan.
 Television image enhancer/decoder, 3M Company, 422, June
 Television monitors, Robert Bosch, 190, Mar.
 Television projection lenses, TeleVue Optics, 69, Jan.
 Television test instruments, Visual Information Institute, 556, Aug.
 Television transmission set, American Laser Systems, 662, Sept.
 TH-100, Type C helical-scan videotape recorder, RCA Broadcast Systems, 658, Sept.
 Three-tube ENG camera, Sharp Electronics Corp., 730, Oct.
 Time-code editing system for TR-600 videotape recorders, RCA Broadcast Systems, 734, Oct.
 Time-code generator, Model TCG-80N, Skotel Corp., 424, June
 Time-code generators, MTG 550, EECO, 660, Sept.
 Time-code reader, Model TCR-80, Skotel Corp., 806, Nov.
 Tittler-Keyer, Model TK-1, Adwar Video Corp., 423, June
 TK-47, automatic color television studio and field camera, RCA Broadcast Systems, 656, Sept.
 TKP-46 portable production camera, RCA Broadcast Systems, 848, Dec.
 Transient Protectors, Unity Power Systems Northeast, Inc., 126, Feb.
 Tripod for ENG video camera, Innovative Television Equipment, 744, Oct.
 Tunable filter on a chip, Reticon Corp., 734, Oct.
 Tuning System, RCA Consumer Electronics, 738, Oct.
 U-Matic cassettes, extended play, 3M Company, 192, Mar.
 Unified noise weighting filter, Type 410-2, Television Equipment Associates, 424, June
 VHF lowband television transmitter, Philips Broadcast Equipment Corp., 736, Oct.
 Vidicon, camera, WV-1000A, and Newvicon CCTV camera series, Panasonic, 848-852, Dec.
 Video cabling accessories, Comprehensive Video Supply Corp., 865, Dec.
 Videocassette cleaner and evaluator, Chyron TeleSystems, 265, Apr.
 Videocassette, Q₂HD, Memorex Corp., 424, June
 Videocassette recorders, Omnivision II, 855, Dec.
 Video console, The Winsted Corp., 368, May
 Videodisc player system, VISC, Matsushita Electric, 190, Mar.
 Videodisc recorders, Oktel Corp., 418, June
 Video distribution amplifier, Avitel Electronics Ltd., 864, Dec.
 Video distribution amplifier, Teldav 400, Channelmatic, Inc., 194, Mar.
 Video distribution amplifiers, Dynasciences, 423, June
 Video editing recorder, electronic, JVC Industries, Inc., 659-660, Sept.
 Video enhancer, Model 858, Dynasciences, 802, Nov.
 Video Expander, Model 275, Colorado Video, Inc., 660, Sept.
 Video frame store, Model 274, 806, Nov.
 Video noise meter, Model VNM-428, Lenco, Inc., 800, Nov.
 Video processing system, DPS-1, Digital Video Systems, 362, May
 Videoraser, Sonar Radio Corp., 736, Oct.
 Vidstar VHS video home system, JVC Industries, 192, Mar.

Vinten Kestrel OB camera crane, W. Vinten Ltd., 418, June
 Vinten TriTrack tracking base, Listec Television Equipment Corp., 800, Nov.
 YFI comb filter separator, Telegen Inc., 807, Nov.
 YFI Record Booster, Telegen, 862, Dec.

TESTS, MEASUREMENTS AND QUALITY CONTROL

AM/FM signal source, Marconi Instruments, 662, Sept.
 Audio frequency response analyzer, Hammond Industries, 666, Sept.
 Calculators (Series E), Hewlett-Packard, 668, Sept.
 Color bar generator, Lenco, Inc., 860, Dec.
 Color television pattern generator, N.V. Philips Gloeilampenfabrieken, 860, Dec.
 Computer interface, Model SA1142, Marconi Instruments, 420, June
 Counter, 50-500 MHz, Continental Specialties, Corp., 664, Sept.
 Counter-timer, Hewlett-Packard, 865, Dec.
 Delta Time Oscilloscope, Model 1742A, Hewlett-Packard, 808, Nov.
 Design Mate-2, 3-waveform function generator, Continental Specialties Corp., 738, Oct.
 Digital logic probe, Continental Specialties Corp., Model LP-1, 864-865, Dec.
 Digital multimeter, Model 3466 A, Hewlett-Packard, 123, Feb.
 Distortion Measurement Set, Model 339A, Hewlett-Packard, 200, Mar.
 Dual digital tape timer, TT-100, Convergence Corp., 807, Nov.
 Frame count cueing system, Carter Equipment Co., 809, Nov.
 Frequency counter, MAX-100, Continental Specialties Corp., 738, Oct.
 Frequency counter, other instruments, price reductions, VIZ Test Instruments Group, 738, Oct.
 General purpose VOM, VIZ Test Instruments Group, 745, Oct.
 Logic Monitor, Model LM-1, Continental Specialties Corp., 669, Sept.
 Matrix, Opamp Labs, Inc., 740, Oct.
 Microwave frequency counter, Model 5342A, Hewlett-Packard, 265, Apr.
 Microwave frequency counter, option H10 providing -15 dBm sensitivity, Hewlett-Packard, 664, Sept.
 Microwave signal generators, Flann Microwave Instruments, Ltd., 68, Jan.
 Multimeters, Eico Electronic Instrument Co., 668, Sept.
 NTSC studio vectorscope, Ultra Audio Pixtec, 663, Sept.
 Oscilloscope, LBO-507, Leader Instruments Corp., 265, Apr.
 Photo-Sonics automatic film reader, Model 80, Instrumentation Marketing Corp., 122, Feb.
 Scientific calculators, Casio, 426, June
 Spectra Photometer/Radiometer, Photo Research Div. of Kollmorgen Corp., 809, Nov.
 Spectrum analyzer, Marconi Instruments Ltd., 666, Sept.
 Spectrum analyzer, Model 3582A, Hewlett-Packard, 736, Oct.
 Stopwatch, super-8/16mm, Birns & Sawyer, Inc., 669, Sept.
 Television and lens testing system, Sira Institute, 860, Dec.
 Television transmitter, Nippon Electric Co., 663, Sept.
 Video cable equalizer, Cohu, Inc., 664, Sept.
 Wideband RF sweeper plug-ins, Hewlett-Packard, 265, Apr.

OBITUARIES

Aex, Paul S., 404, June
 Crisp, Ernie, 96, Feb.
 Dunning, Carroll H., 58, Jan.
 Etzold, Hellmuth, 404, June
 Goldmark, Peter Carl, 95-96, Feb.
 Hardy, Arthur C., 96, Feb. (See Addendum, 404, June)
 Holmes, Frank A., 404, June
 Kozanowski, Henry N., 714, Oct.

McGeary, Frank, 471, July
 Sponable, Earl I., 95, Feb.
 Sullivan, John R., 352, May
 Weinberger, Isaak, 348, May
 Yavitz, Eric A., 58, Jan.

OPTICAL FIBER TECHNOLOGY

Optical-fiber video transmission using analog baseband modulation, *Tenne-Sens and Johnson*, 386-390, June
 Video transmission tests, intermediate frequency lightwave entrance links, *Albanese and Lenzing*, 821-824, Dec.

OPTICS

Lens designs for motion-picture cameras, *Glatzel*, 1-5, Jan.

OTHER ORGANIZATIONS

Audiovisual programs, UN conference on human settlements, *Cobley and Graham*, 218-221, Apr.
 BKSTS Fellow Awards, 472, July
 EBU definition of field one in the eight-field sequence of the PAL signal, 771, Nov.
 Photokina 1978, *Happé*, 834-837, Dec.
 Telecine, colorimetric characteristics within EBU organizations, *Rothaler*, 574-578, Sept.
 The Aeroballistic Range Association, *Endelman*, 406, June

OUTSIDE BROADCASTING VEHICLES

Location production unit using lightweight cameras, *Leiper, Vitty and Woolford*, 494-498, Aug.
 Vehicle, radio and television broadcasting quality assurance, *Bennett, Kaiser and Quinn*, 582-586, Sept.

PRODUCTION (See also TELEVISION)

Location production unit using lightweight cameras, *Leiper, Vitty and Woolford*, 494-498, Aug.

PROGRESS COMMITTEE REPORTS

Progress Committee Report for 1977, *Smith*, 269-325, May. (See Erratum, 486, July)

PROJECTORS AND PROJECTION (See also TELEVISION)

ISO 26 1977 (E), Projector Usage of 16mm Motion-Picture Films for Direct Front Projection — Specifications, 236, 246, Apr.
 ISO 359-1977 (E), Projectable Image Area on 16mm Motion-Picture Prints, 36, 48, Jan.
 Synchronization control unit for super-8 sound recording, editing and sound transfer to magnetic-striped film, *Sudmann and Aaslid*, 158-162, Mar.

SCREEN LUMINANCE

ANSI PH22.196-1978, Screen Luminance and Viewing Conditions for Indoor Theater Projection of Motion-Picture Prints, 516, 518-519, Aug.

SOCIETY ACTIVITIES

Committees and Study Groups (see also **Engineering Activities** below)

Progress Committee Report for 1977, *Chairman*, Robert M. Smith, 269-325, May
 Subcommittee SC 60B of IEC TC 60, meeting, report, *Anderson, Ritter and Remley*, 594-595, Sept.
 Subcommittee SC 60C of IEC TC 60, meeting, report, *Farmer and Wyman*, 595-596, Sept.
 Videodisc recording systems, study group, organizational meeting, report, *Paulson*, 35, Jan.

Conferences and Seminars

120th Technical Conference, announcements, 88, Feb.; 169, Mar.; 236, Apr.; 330, May; 400, June; 458, July; 515, Aug.; Advance Program, 603, Sept.; Update, 700, Oct.

SMPTE Television Conference, Atlanta, 3-4 February 1978, report, *Bondy*, 326-330, May
13th Television Conference, announcement, 598, Sept.
12th Television Conference, announcement, advance program, 49, 52, Jan.

Education

Scholarship awards, 644, Sept.
SMPTE/SPSE Student Chapter, Rochester Institute of Technology, 644, Sept.
SMPTE Student Chapter activities, 174, Mar.

Engineering Activities

Ad Hoc Group under SMPTE Standards Committee to study lighting-equipment accessories, 771, Nov.
Digital video standards, progress report, *Hopkins*, 391-392, June
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- SMPTE Engineering Committee Recommendation, ECR 1-1978, Alignment Color Bar Test Signal for Television Picture Monitors, 700, 701-702, Oct.
- SMPTE Engineering Committee Recommendation, Proposed, ECR 1, Alignment Color Bar Test Signal for Television Picture Monitors, 88, 93-94, Feb.

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- SMPTE time and control code applied to television audio post production, *Swetland*, 508-512, Aug.
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- SMPTE Recommended Practice, RP 27.1-1977, Specifications for Operational Alignment Test Pattern for Television, 332, 333-334, May
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- Digital video effects (DVE) system, *Patten*, 214-218, Apr.
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- Television transmission systems, automatic, *Zborowski*, 383-385, June
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- ANSI PH22.56-1978, Nomenclature for Motion Picture Film Used in Studios and Processing Laboratories, 771, 772-778, Nov.

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- Video disc recording systems, report, study group, organizational meeting, *Paulson*, 35, Jan.

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- Edit room using 1-in continuous field helical VTRs, *Nicholls*, 764-766, Nov.
- SMPTE Recommended Practice, Proposed, RP 36, Positioning the Headwheel and Adjacent Tape for 2-in Quadruplex Video Magnetic Tape Recorders, 393, 395, June
- SMPTE Recommended Practice, Proposed, RP 89, Dual-Program Audio for 2-in Quadruplex Video Magnetic Tape Recording at 15 and 7.5 in/s, 393, 396, June
- SMPTE time and control code applied to television audio post production, *Swetland*, 508-512, Aug.
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- Videotape editing systems using microprocessors, *Hamalainen*, 379-382, June
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- ANSI C98.8-1977, Specifications for an Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic Tape Recorders Operating at 15 in/s (381 mm/s) 36, 37, Jan.
- ANSI C98.11-1977, Specifications for an Audio Operating Level and Multifrequency Test Tape for Quadruplex Video Magnetic Tape Recorders Operating at 7.5 in/s (190.5 mm/s) 36, 39, Jan.
- ANSI Draft, C98.15, Basic System Parameters for 1-in Type B Helical Scan Videotape Recording, 88, 89, Feb.
- ANSI Draft, C98.16, Dimensions and Location of Records for 1-in Type B Helical Scan Videotape Recording, 88, 90-91, Feb.

- ANSI Draft, C98.18, Basic System and Transport Geometry Parameters for 1-in Type C Helical Scan Videotape Recording, 162, 163-164, Mar.
- ANSI Draft, C98.19, Dimensions and Location of Records for 1-in Helical Scan Videotape Recording, 162, 164, Mar.
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- ANSI Draft, C98.21, Dimensions and Location of Records for 3/4-in Type A Helical-Scan Videotape Cassette Records, 236, 237-238, Apr.
- ANSI Draft, C98.22, Dimensions of Videocassette for 3/4-in. Type A Helical-Scan Videotape Recording, 236, 239-240, Apr.
- ANSI Draft, C98.23, Dimensions and Location of Records and Basic Electrical Parameters for 1/2-in Type A Helical-Scan Videotape Recording, 236, 241-243, Apr.
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- Helical-scan videotape recorders, mechanical design considerations, *Ryan*, 767-771, Nov.
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- SMPTE Recommended Practice, Proposed, RP 6, Recorded Carrier Frequencies and Pre-Emphasis Characteristics for 2-in Quadruplex Video Magnetic Tape Recording for 525-Line/60-Field Television Systems, 838, 840-841, Dec.
- SMPTE Recommended Practice, Proposed, RP 83, Specifications of Tracking Control Record for 1-in Type B Helical Scan Videotape Recording, 88, 92-93, Feb.
- SMPTE Recommended Practice, Proposed, RP 84, Video Reference Carrier Frequencies and Pre-Emphasis Characteristics for 1-in Type B Helical-Scan Videotape Recording, 88, 92, Feb.
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- SMPTE Recommended Practice, Proposed, RP 88, Reference Carrier Frequencies and Pre-Emphasis Characteristic for 1/2-in Type A Helical-Scan Videotape Recording, 236, 245, Apr.
- SMPTE Type C helical-scan recording format, *Fibush*, 755-760, Nov.
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- Sypher, videotape sound post dubbing, *Eden-Edon*, 504-507, Aug.

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- Embossed relief images, application for color motion pictures, *Gale and Knop*, 6-8, Jan.