

Industry News & Educational Activities

The organizers of the International Broadcasting Convention have announced the names of the Corresponding Members for IBC 80 to be held 20 - 24 September in Brighton, England. They are: Joseph A. Flaherty, Vice-President, Engineering and Development, CBS Television Network, New York; V. Balasubramanyam, Director of Engineering, ABU Technical Centre, Asia-Pacific Broadcasting Union, Kuala Lumpur, Malaysia; T. K. Bourke, Controller Engineering, Australian Broadcasting Commission, Sydney, Australia; R. Gressmann, Director, Technical Centre, European Broadcasting Union, Brussels, Belgium; N. R. Grover, Vice-President, Engineering, Canadian Broadcasting Corp., Montreal, Canada; D. H. Mills, Director, Technical Services, South African Broadcasting Corp., Johannesburg, Republic of South Africa; T. J. Murphy, Director of Engineering, Radio Telefis Eireann, Dublin, Republic of Ireland; R. L. Pointer, Vice-President, Engineering; American Broadcasting Company, New York; J. Roizen, President, Telegen, Palo Alto, Calif.; K. Sharp, Controller of Engineering Services, Broadcasting Corp. of New Zealand, Wellington, New Zealand; and H. J. D. Swan, Chief Engineer, Oman Colour Television, Sultanate of Oman.

The IBC Corresponding Members form an important part of the IBC organization and give international support to the UK Committees in the organizing of the conventions and in their close liaison with the broadcasting industry and services worldwide.

Sponsors of IBC 80 are the Electronic Engineering Association, Institution of Electronic and Radio Engineers, Institution of Electrical Engineers, Institute of Electrical and Electronics Engineers, the Royal Television Society, and the SMPTE.

Further information is available from the IBC Secretariat, Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, England.

Ampex Corporation is the recipient of the Geoffrey Parr Award presented by the Royal Television Society in London for developmental work on the Automatic Scan Track. The judges felt this was a key development in current advances in television engineering. They noted the people most closely connected with its development were Don McLeod, Dick Hathaway, and Ray Ravizza who was the engineer who originated the idea. Chairman of the judges was Neville Watson OBE, and his team included Darrell Maurice, Peter Whitaker, Bob Roberts, and Norman Green. The Geoffrey Parr Award is given each year by the Royal Television Society to either an individual or a team in recognition of a notable contribution to television engineering or an associated science.

The Rank Cintel Mark III Flying Spot Color Telecine has received the 1979 British Design Council Award according to information received from Rank Cintel, Watton Road, Ware, Herts, England. The Mark III (described on

p. 362, *SMPTE Journal*, May 1978) introduced new techniques for the multiple scanning of film frames using digital video storage. The award was presented for showing outstanding design achievement and a high level of technical innovation. The Design Council selects six engineering products each year to receive the Design Council Award.

The 22nd MPL Film Seminar was held 20 - 21 July at the University Center, Memphis State University. The sponsors were Motion Picture Laboratories, Inc., Media Equipment Center, and Memphis State University. The program included presentations of technical papers and demonstrations of equipment. Among the distinguished speakers on the program were Irwin Young, Chairman of the Board of Du Art Film Laboratories, who gave side-by-side comparisons of 16mm blowups to 35mm, and 16mm to 16mm printing; Bonnie Swenholt, Senior Engineer with the Photographic Technology Division, Eastman Kodak Co., who presented a paper entitled "Depth Perception in Color Photography"; Walter J. Klein, filmmaker and author of *The Sponsored Film*, whose presentation was entitled "Good Relations With Your Competitors"; Roxie Gee, Instructor in the Department of Theatre and Communications Arts at Memphis State, whose paper was entitled "Creative Editing — Searching for Continuity"; and Jim Solomon, MPL's Laboratory Manager who used side-by-side screen comparisons to show what wetprinting can and cannot do for negative originals.

A course in Geometric Optics will be offered by the University of California Los Angeles beginning 18 September. There will be 12 meetings on Tuesday evenings from 7 to 10 p.m. The course will cover the design of optical systems, emphasizing geometric design aspects; first order or Gaussian optics; image formation; third order aberrations; prism and mirrors; spherical and aspheric surfaces; pupils and optical materials; and application to telescopes, microscopes, photographic lenses, projectors, and other devices. The prerequisite is a BS degree in engineering or science or the course can be taken by consent of the instructor. Further information is available from the Instructor, Milton Laikin, Laikin Optical Corp., Control Data Corporation Building, 5630 Arbor Vitae St., Los Angeles, CA 90045.

A course in Optical Science and Engineering will be given at the Doubletree Inn in Tucson, Arizona, 7-18 January 1980, by members of the faculty of the Optical Sciences Center of the University of Arizona. The purpose of the course is to acquaint both the specialist and non-specialist engineer or scientist with the latest techniques in the design and engineering of optical systems. The course comprises 18 three-hour lectures.

Topics to be covered include geometrical and physical optics, optical system layout and design, Fourier methods, polarized light, radio-

metry, image quality, adaptive optics, optical testing, photodetectors, infrared systems, photographic and CCD systems, lasers and sampled imagery, and digital image processing. Further information is available from Philip N. Slater, Optical Systems & Engineering Short Courses Inc., P.O. Box 18667, Tucson, AZ 85731.

Exports of audiovisual materials continued strong in 1978 at \$230 million, 24% above the \$186 million exported in 1977, according to Hope Reports, Inc., 1600 Lyell Ave., Rochester, NY 14606. This was the fourth consecutive year in which exports rose over the previous year, the report stated. Audiovisual imports of \$375 million were 19% above those of \$316 million in 1977 — a poor year, according to the report. Imports have been volatile, fluctuating sharply from year to year. Photographic audiovisual product exports rose 29% while electronic audiovisual product exports climbed 15%. Imports of photographic audiovisual products rose 35% while electronic imports rose 16%.

Hope Reports, after analyzing the export-import data from the Department of Commerce, found the major export product in terms of dollar value was that of unprocessed 16mm motion-picture film. Increasing 18% over 1977, 16mm film exported for audiovisual use amounted to \$70.6 million spent for 1.6 billion feet out of a total of 4 billion feet of 16mm rawstock film exported.

The leading import audiovisual product was the group classified as "Other Television Apparatus," used chiefly for closed-circuit television operations. Imports of other television apparatus, however, were off sharply from the previous year, down 42%, as American manufacturers have stepped up their output to compete with Japanese and European imports. Japanese manufacturers continue to dominate the videocassette recorder and television receiver imports.

The new yearbook, *Hope Reports AV-USA*, states that most of the 1600 manufacturers in the U.S. audiovisual industry are finding that overseas markets are making greater use of audiovisual products. Emerging nations are turning to audiovisual media as they step up their educational training efforts and U.S. know-how is playing an important role as programs are established.

"In the Jersey City plant of the Jenkins Television Corporation production is going forward on a television unit or 'radiovisor' which is designed to be connected to a standard multi-tube receiver capable of tuning to this wavelength." This item appeared in the June 1929 issue of *Scientific American* (reprinted in the "50 and 100 Years Ago" column in the June 1979 issue). Jenkins, is, of course, C. Francis Jenkins, a founder and the first President of the SMPTE, which makes the item of special interest to SMPTE members as well as historians. The item continues, "Radio experimenters and others interested in television must be warned not to look for perfect results or large pictures that can be shown to a group of admiring friends. The pictures so far reproduced with the apparatus available for home use are small — in the neighborhood of 1 x 1 1/2 inches — and often are not too clear. This, however, is no deterrent to progress. Pictures can be received and it will not be long before they will be bigger and better."

This item brings to mind the astonishing speed of technical advancement in this century. Well within the memories of many people is a time when television pictures measured about 1 x 1 1/2 inches and were "not too clear." Cer-

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For more information, write: Panasonic Company, Video Systems Division, One Panasonic Way, Secaucus, N.J. 07094. In Canada, Panasonic Video Systems Department, Mississauga, Ontario.

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tainly Jenkins's prediction that in the future television pictures would be "bigger and better" was no idle wish-thinking.

A 240-ft unsupported workway bridge and 90-ft diameter turntable have been designed and fabricated by DCMA International, P.O. Box 1194, Canoga Park, CA 91304, to facilitate underwater cinematography for the feature film, *Raise the Titanic*. The bridge spans a pic-shaped 2½-million-gallon tank constructed in Malta especially for filming underwater sequences. One end of the span acts as a pivot while the opposite end travels through a 70° arc to completely cover the turntable in the filming portion of the tank. A 2-ft-wide, 100-ft-long opening centered in the bridge floor permits the camera and special

equipment to be moved longitudinally and to be raised and lowered into the water. The structure will support 10 men with equipment anywhere on the bridge. The turntable, rotating on two roller circles is submerged in 12 ft of water and supports a 1-ton, 1 to 10 scale model of the sunken Titanic.

A common electro-hydraulic power package with remote controls is located at the pivot end of the bridge. One wheel of the bridge is powered for swinging the workway through the 70° arc. The turntable rotates through a full 360° at 1/10 r/min. Both the bridge and the turntable were designed as two large erector sets to permit fabrication in DCMA's Chatsworth facility and were then shipped to Malta for on-site reassembly by unskilled crews using only wrenches and

bolts and nuts. No single element of either the bridge or turntable exceeded 40 ft in length for container handling.

Color Film Corp., a filmstrip and slide laboratory with facilities in Stamford, Conn., and Santa Monica, Calif., has acquired Electronic Publishing, Inc., a videocassette duplicating laboratory, according to a recent announcement. The facility, to be known as the Video Division of Color Film Corp., will continue to operate from its present location at 98 Commerce Road, Stamford, Conn. Aldon Lareau, formerly Color Film Corp.'s Treasurer will be President of the new Division. Film-to-tape and tape-to-tape duplication services are offered in ¾-in U-Matic and ½-in Beta and VHS formats.

EECO Inc., 1601 East Chestnut Ave., Santa Ana, CA 92701, has recently completed a building expansion program nearly doubling the company's owned facilities to some 200,000 ft². The building now houses corporate administration, finance, data processing, marketing, sales, and engineering for the Components and Electronics Divisions and also houses most of the manufacturing operations, including assembly and testing of broadcast indexing, synchronizing and editing, and other equipment.

Pioneer Marketing Corp., 1021 N. Lake St., Burbank, CA 91502, has announced the installation of the first complete motion-picture laboratory and special effects facility in Santiago, Chile, at Robert Chignoli Productions. Pioneer supplied all equipment necessary for developing and processing of ECN and ECP II, both 16mm and 35mm, including support equipment for reduction, enlargement, and release printing. The aerial image optical printer features the Acme camera and is capable of performing optical effects such as fades, dissolves, wipes, spins, flips, skip frame, color correction, and others. Pioneer also manufactured a special camera with a rotoscope for creating mattes and other background effects to support the special effects department, the announcement stated.

Consolidated Video Systems, 1255 E. Arques Ave., Sunnyvale, CA 94086, has announced a preliminary agreement to sell the privately held company to Harris Corporation for approximately \$13 million. CVS produces video equipment for television stations, cable TV companies, and industrial, educational and government television users. Its principal product is a digital time base corrector which permits television signals from videotape recorders to be synchronized for broadcast transmission. Harris Corp. is a broad-based international producer of communications and information processing systems.

Comquip, Inc., a supplier of new and used motion-picture and video equipment has announced a move that permits the firm to expand its nationwide mail order operation. The new address is 630 Ninth Ave., New York, NY 10036. As part of its move to enlarged facilities, it is offering the RCA Model 1600 16mm film projector, designed for telecine and regular operations. Model 1600 features optical sound, quartz lamp, 5-bladed shutter, and a 115-V ac synchronous motor.

Verbatim Corp., 969 Pastoria Court, Sunnyvale, Calif., a manufacturer of flexible disks, data cassettes, and cartridges used to record and store digital data, has expanded its facilities with

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the addition of 40,000 ft² of new manufacturing space. This brings the total square footage to 209,000. The one-story structure will house manufacturing operations for diskettes and cartridges.

Hope Reports, the visual communications market research company, has moved to 1600 Lyell Ave., Rochester, NY 14606. The company publishes various reports including a bimonthly for audiovisual users, a sales quarterly, a year-book, and special studies on markets and media systems. In addition the firm does private surveys and consultation work for clients.

The Oscar H. Hirt Co. has announced the relocation of their equipment rental department to more spacious quarters at 35 N. 11th St., Philadelphia, PA 19107. This location will be devoted exclusively to the rental of motion-picture and audiovisual equipment.

Marconi Communications Systems, Ltd., Marconi House, Chelmsford CM1 1PL, England, has announced its acquisition of the EMI/Prowest monochrome and color television monitor production facilities. The range of monitors now taken over by Marconi includes 35-cm and 50-cm color monitors, as well as other video accessories, and will enable Marconi to market a more complete studio equipment package of its own manufacture.

Video Duplication, Inc., 1136 North Highland Ave., Hollywood, CA 90038, has opened a second office in Burbank to house its cassette division. The 8800 ft² Burbank facility houses over 200 cassette machines that transfer material on film to 1/2-in VHS and Betamax and 3/4-in U-Matic formats. Equipment used in the production of 2-in quad, 1-in "C", and 2-in helical tape as well as that used to transfer from film to tape will remain in Video Duplication's headquarters office in Hollywood.

Robert F. Clatk has been appointed Vice-President, Technical Services, for Films Incorporated, 1144 Wilmette Ave., Wilmette, IL 60091. He joined the firm in 1974 as General Manager of Technical Operations. He previously served 29 years with Encyclopedia Britannica Educational Corp. in various technical capacities.

Albert W. Malang has been appointed Director, SelectaVision Videodisk Program Conversion for RCA Corp., 30 Rockefeller Plaza, New York, NY 10020. In this position, Malang will be responsible for the conversion and preparation of programs into final film format for videodisk mastering. Before his appointment, he had been an engineering consultant for CBS. Malang received two Emmy awards from the Academy of Television Arts & Sciences: in 1962 for slow motion videotape recording and in 1973 for CMX editing.

Paul Petschek has been named Supervisor of Video Communications in the Corporate Communications Department of Airwick Industries Inc., 111 Commerce Rd., Carlstadt, NJ 07072. He was formerly an independent producer/director doing commercial and corporate communications work. In his new post he is responsible for the production and direction of all video programming and the coordination of videotape and audiovisual events.

Books, Booklets, Brochures

Scriptwriting for Animation by Stan Hayward, a down-to-earth book that explains in simple language the requirements and limitations of preparing a script for animated films, is available from Hastings House Publishers, 10 E. 40 St., New York, NY 10016, at a price of \$7.50. The 160-page paperbound book is profusely illustrated with line drawings (cartoons) and diagrams accompanied by appropriate explanations of what is happening and why. The book is well-written and can be read with enjoyment by anyone, and it can certainly be used as a rewarding and informative reference by anyone involved professionally (or anyone who wishes to become involved professionally) with scripting for animation.

IEE Conference Publication 173, which contains the proceedings of the 2nd International Conference on Low Light and Thermal Imaging held in Nottingham, England, April 1979, is available from IEE/PPL Service Center, 445 Hoes Lane, Piscataway, NJ 08854. Major topics among the 33 abridged papers include phenomenological aspects, optical system design, components, techniques, and applications. The soft cover, 84-page book is priced at \$17.

First Class Commercial FCC License Study Guide by Victor Veley is available from Tab Books, Blue Ridge Summit, PA 17214, at a price of \$12.95. It is intended as a study guide for persons preparing for the Element 4 (Advanced Radiotelephone) examination, the final step toward obtaining an FCC First Class Commercial

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Radiotelephone License. The examination contains 50 multiple-choice questions of which approximately 80% are related to communications electronics and 20% to FCC rules and regulations. The author notes that the *Study Guide* includes materials vital for passing the Element 4 examination, including up-to-date information on such topics as the Austin ring, TV color burst, operational amplifiers, directional antennas, and offset carrier frequencies.

The 1978 Proceedings, available from the American Society of Safety Engineers, 850 Busse Highway, Park Ridge, IL 60068, is a 245-page, softcover work containing transcripts and copies of the 23 presentations made at the Society's Professional Development Conference, June 1978 in Washington, D.C. In addition to a debate concerning OSHA by the late Congressman William Steiger and Congressman George Hansen, topics include human factors engineering, risk management, indirect accident costs, and safety training through video, among others. Copies are \$15 each or \$10 each for volume orders of 10 or more.

Four technical reprints covering various aspects of film, microfilm, microfiche, and COM processing techniques are available upon request from The Allen Products Co., 180 Wampus Lane, Box 417, Milford, CT 06460. Titles of the four articles are "Considerations in Setting Up a Processing Operation"; "Conventional vs. Full Reversal Processing"; "Quality Control in Silver Processing"; and "Silver Recovery Facts."

Association Films, 866 Third Ave., New York, NY 10022, has announced its 1979 catalog

of free films available to television stations. Subjects include sports, travel, documentaries on such topical issues as energy, the environment and population growth, and new developments in science and technology. Copies of the 40-page catalog are available free to television stations upon request to Association Films.

Into Film, by Laurence Goldstein and Jay Kaufman, is a voluminous (607-page) manual for the filmmaker interested in the multitudinous artistic and technical aspects of the art, from subjective abstractions like "continuity," "representation," "temporal rhythms," and "expressive uses of time" to more precise and objective elements like lighting, cutting, sound recording and mixing, as well as the nature of the camera. These and other discussions are concisely written, utilize a prolixity of examples from classic films, and constitute a comprehensive and intelligent examination of the many choices available in the production of a film. The book is available in softcover from E. P. Dutton, 201 Park Ave. South, New York, NY 10003. The price is \$12.95.

The proceedings of the 3rd international conference on trends in on-line computer control systems, held in Sheffield, England, in March 1979, are available as *IEE Conference Publication 172* from IEE Station House, Nightingale Rd., Hitchin, Herts SG5 1RJ, England, at a price of £12.50, or, in the United States, from IEE/PPL Service Center, 445 Hoes Lane, Piscataway, NJ 08854, at a price of \$29. The book is softbound, 178 pages, and contains 40 papers. Major topics include distributed systems; control theory; project management and

systems enhancement; interfaces; language techniques; software systems; stand alone applications; and microprocessors and the environment.

Gadney's Guide to 1800 International Contests, Festivals & Grants, by Alan Gadney is a comprehensive source book with listings for film and video, photography, TV-radio broadcasting, writing, poetry, journalism, and other related categories and subcategories. The guide features a 4400-entry alphabetical index listing each event, sponsor, and award; a subject/category index with 323 areas of special interest; cross-references and definitions; and hints on how to analyze and enter events. This 578-page book is available from Festival Publications, P.O. Box 10180, Glendale, CA 91209, at a price of \$21.95 (hardbound), and \$15.95 (softbound), plus \$1.50 for postage and handling.

Three-tube, 2/3-in Saticon bias-lighted color cameras are described and illustrated in color in a brochure available upon request from Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ 07652. Featured in the brochure are the XC-530, a self-contained professional portable ENG/EFP color camera and the XC-500, a multi-function professional studio color camera.

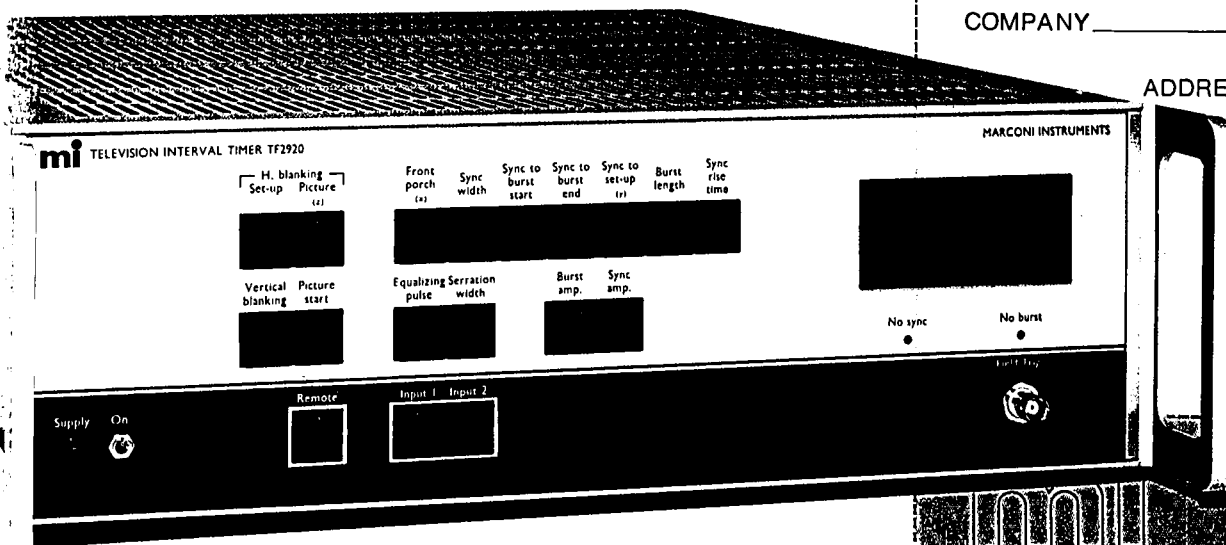
Custom-built L-C Filters in frequencies from 20 Hz to 400 MHz are listed in catalog 16F available upon request from Allen Avionics, Inc., 224 East 2nd St., Mineola, NY 11501. Listed in the catalog are bandpass and lowpass filters. Video filters are also covered. The 24-page catalog contains a filter facts section, a glossary of filter terms, and specification forms.

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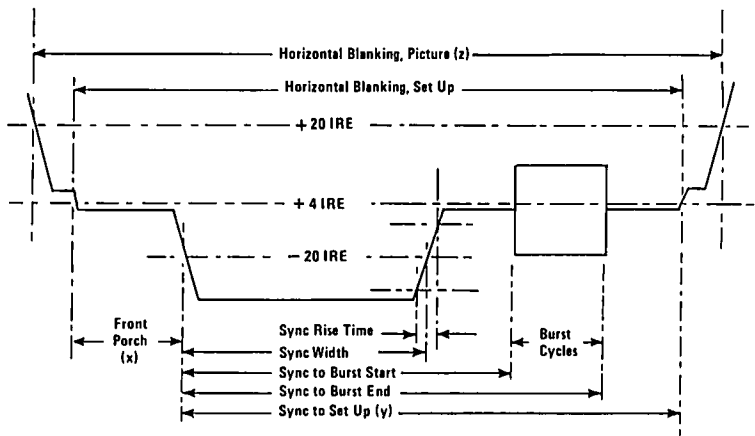
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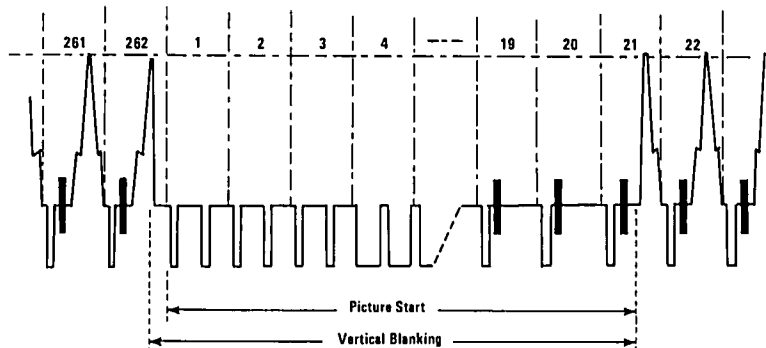
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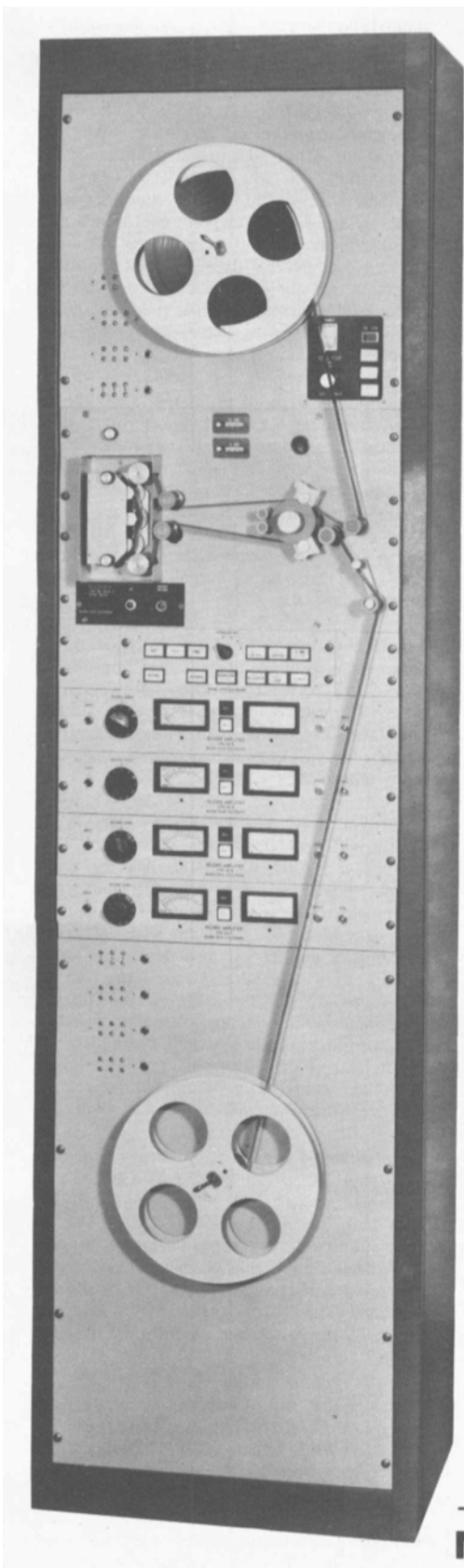
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