

New SMPTE Sustaining Member

Mosaik-Film G.M.B.H., 1 Berlin 46, Muehlenstr. 46-54

Main office, plant laboratories and dubbing studios are located in West-Berlin, Germany. Established in 1945, it was the first company in Germany to meet the requirements of film producers and distributors after the Second World War. The services are: Complete color (Eastman-, Agfa-Gevaert-, and Ferrania-Color), black and white printing and processing (negative and positive) in 35mm and 16mm for theatrical, industrial, educational and television use. The services include the production of intermediates and inter-

negatives, reduction printing, optical and magnetic track transfer and all associated lab services. In addition, the company offers rental of 9 sound recording and mixing studios and 30 editing rooms well equipped for all dubbing requirements including stereophonic sound recording, multichannel, especially six-channel mixing with the possibility of sound transferring to 16, 35 and 70mm release prints, magnetic striping and a complete sound service.

Address inquiries to: the address above.

SMPTE Elections

Officers of the Society for 1966 (including those elected to five newly created Vice-Presidencies as well as those remaining in office for the 1965-66 term, and those elected to serve during the 1966-67 term) are:

President: Ethan M. Stifle (1965-66)
Executive Vice-President: G. Carleton Hunt (1965-66)
Engineering Vice-President: Deane R. White (re-elected) (1966-67)
Editorial Vice-President: Herbert E. Farmer (1965-66)
Financial Vice-President: Joseph T. Dougherty (re-elected) (1966-67)

Conference Vice-President: Kenneth M. Mason (1965-66)
Secretary: Robert G. Hufford (1965-66)
Treasurer: Saul Jeffee (1966-67)
Past-President: Reid H. Ray (1965-66)

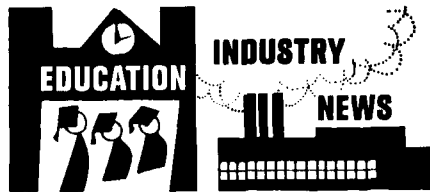
The five newly-elected Affairs Vice-Presidents are:

Education Affairs: D. Max Beard
Instrumentation and High-Speed Photography Affairs: William Hyzer
Motion-Picture Affairs: Richard J. Goldberg
Photo-Science Affairs: J. S. Courtney-Pratt
Television Affairs: Richard S. O'Brien

Those elected by their respective Regions to serve on the Board of Governors for the next two years are:

Eastern Region: C. Russell Dupree; Garland C. Misener; Edward A. Winkler
Western Region: Jack P. Hall; Edward H. Reichard
Central Region: Robert A. Colburn

Society elections are conducted by mail ballot. Results of the present election were announced at the 98th Technical Conference in Montreal.



The Education Committee of the Society has established a \$25,000 scholarship program for higher education in the photographic sciences.

The initial grant was given by Movielab, Inc., New York City, Saul Jeffee, Movielab President.

The Rochester Institute of Technology (RIT), Rochester, N.Y., was selected by the Education Committee of the SMPTE as the institution of higher learning to administer the first scholarships. Students selected for this program will study in the areas of Photographic Science and Instrumentation leading to a Bachelor of Science degree.

The areas of study will cover mathematics, chemistry, optical systems, physics, electronics, imaging systems and other technical disciplines. RIT was selected as the initial university for the scholarship program due to its leadership in establishing curricula dealing with these scientific subjects in the materials and processes of photography.

Other institutions are being considered for later inclusion in this scholarship program. As additional contributions from the photographic and television industries are received to expand this scholarship fund, the program will be broadened to encom-

pass other phases of the communications sciences.

Exact details of eligibility and application for this scholarship program will be announced later.

Eastman Kodak Co. and JM Developments, Inc., 116-118 W. 29 St., New York, N.Y. 10001, have signed an agreement by which JM Developments will undertake to develop a commercially acceptable system for producing optical soundtracks of good quality on Eastman Color release prints of the Super-8 format. According to the announcement from Eastman Kodak, "JM Developments, Inc., and its President, John A. Maurer, have been selected for the program because of... experience and expert knowledge in the field of 16mm optical sound motion-picture techniques."

Under terms of the agreement JM Developments will design and construct equipment to produce the optical soundtracks on Super-8 film and will test and demonstrate commercial feasibility. Kodak will supply photographic film for use in the development work and a Kodak Viscomat processing machine will be used.

Lasers in photography will be discussed at the joint meeting of the Rochester Section of the Society and the Rochester Chapter of the SPSE to be held December 9 in Rochester (*Journal*, p. 944, October 1965). Highlights of the meeting will include a talk by Brian J. Thompson on "Use of Coherent Light in Photographic Applications." Dr. Thompson, who is Manager of the Physical Optics Department, Technical Operations Research, Burlington, Mass., will discuss the advantages and disadvantages of employing coherent light in such

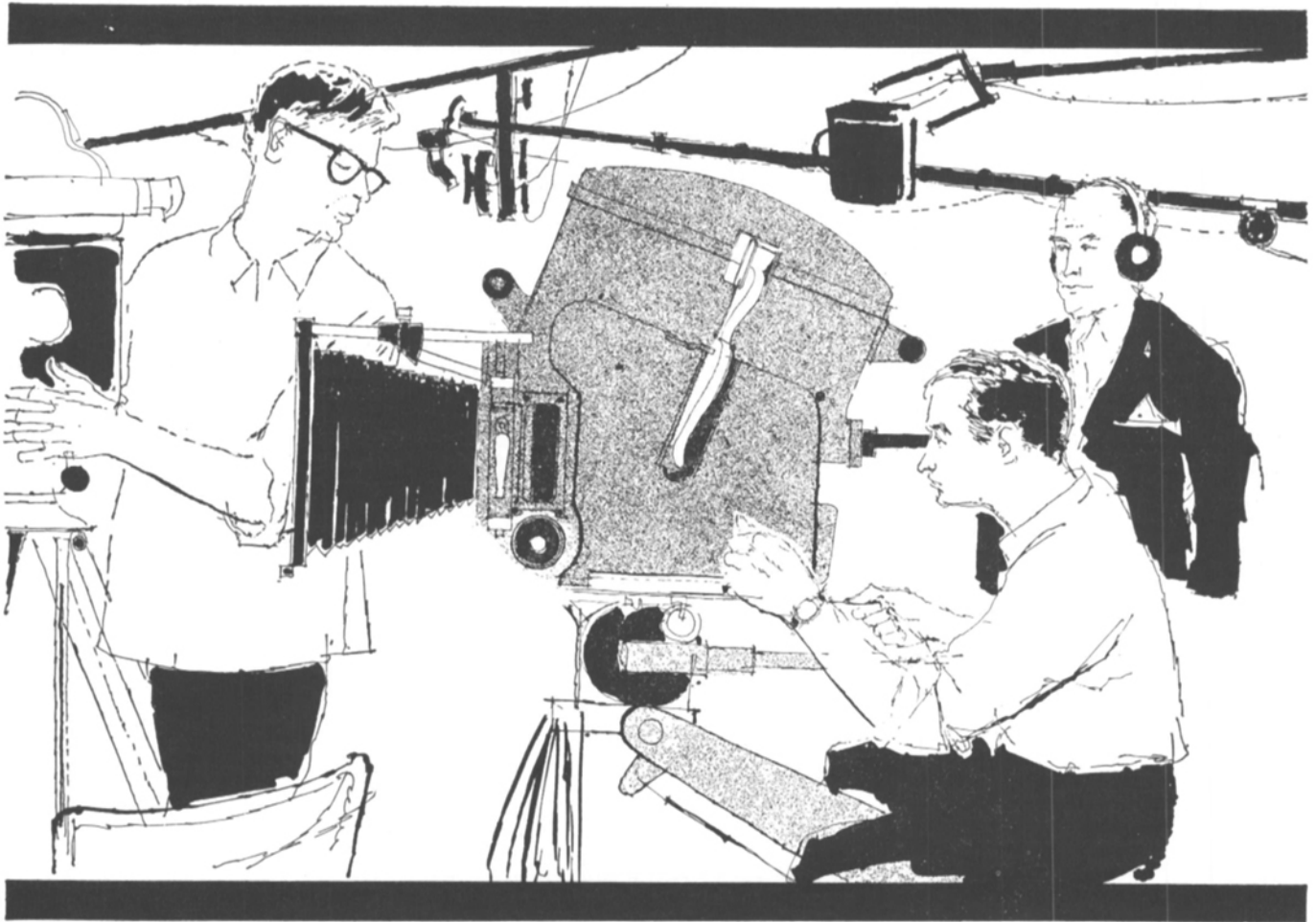
standard photographic operations as contact printing, projection and object illumination. He will also discuss some of the newer and more unconventional uses, such as optical spatial filtering and holography. Byrant W. Rossiter will present a Visual Encyclopedia chapter on thin-layer chromatography. Dr. Rossiter is with the Research Laboratories of Eastman Kodak Co. The meeting will be held at the Dryden Theater in Rochester and will begin at 8.00 P.M.

The Winona School of Professional Photography sponsored by Professional Photographers of America, Inc., 152 W. Wisconsin Ave., Milwaukee, Wis. 53203, has announced 28 courses in photography to be held from June 13 through September 2, 1966. The courses are of one- and two-weeks duration. An Industrial Film Workshop will be held June 13-17. The workshop will include production of motion pictures and discussions of basic techniques. A course in Motion-Picture Film Editing will also be held June 13-17. Lectures and demonstrations will cover film continuity, build-up, cutaways, pace, timing, mood, opticals and laboratory practices. A Photographic Department Supervisors Seminar will be held that same week for department heads who wish to strengthen management techniques.

The United States Institute for Theatre Technology will hold its 1966 annual conference April 30-May 2 at the University of Toronto. Highlights of the conference include a tour of theatrical facilities in and around the Toronto area among them Stratford Festival Theatre, Avon and

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McMillan Theatres, O'Keefe Centre and York University. Panel discussions will be held on various aspects of theater technology.

The Searching Eye, a film produced by Saul Bass, which was shown at the Kodak Pavilion at the New York World's Fair, has recently won three international film awards. Previously selected for a CINE Golden Eagle Award, *The Searching Eye* received the Lion of St. Mark Award (first prize in the category of films for children) at the Venice Film Festival held in September, and was also selected by the International Committee for the Diffusion of Artistic and Literary Works by the Cinema (CIDALC) to receive the Golden Gondola Award. The film also received an unprecedented honor at the 18th Edinburgh International Film Festival, held in August, when it was awarded a special Diploma of Merit. The Edinburgh Festival is noncompetitive, but the diploma is considered the equivalent of a top award.

Fourteen business films from the United States competed in the International Film Festival held at Rouen, France, in October, it was announced jointly by the National Association of Manufacturers and the Council on International Nontheatrical Events (CINE). Four American delegates, designated by NAM and CINE, attended the Festival. O. H. Coelln, Editor and publisher of *Business Screen*, and Carl Lenz, President of Modern Talking Picture Service, New York, served as jurors of the international film competitions. Miss Avalon Daggett, New Orleans film producer, and John Flory, Eastman Kodak Co. film consultant, were the other two delegates. Mr. Flory was an alternate juror.

The Institute of Audio-Visual Systems (ISAV) is one of four nonprofit organizations forming the Colombian Institute of Social Development. Located in Bogota, Colombia, S.A., ISAV has recently completed an audio-visual center which includes a 1,500 sq ft office area; a 280-seat audio-visual theater; an audio-visual classroom for 45 persons, equipped with a projection booth for 16mm film and slides; three conference rooms; an exhibition hall with permanent facilities for 1,259 sq ft of eye-level displays; an acoustically isolated sound studio; film and sound editing complex; art department for four artists; motion-picture and television studios; electronic shop; carpenter shop; storage areas, etc.

Among other activities, ISAV conducts training courses for educators and others interested in mass communications. The Institute also produces 16mm films, slides, filmstrips, taped programs and discs for general educational as well as for classroom use. Other services include rental and sale of films to educational institutions and industrial and government agencies. Sale of audio-visual equipment is planned.

ISAV Director is José Ignacio Torres H.; and Director of Production—Coordinator, Thomas McMahan, M.M.; Director of Formation, Ignacio Chapa, S.M.; and Director of the Department of Projects, Manuel Cabrera T.

The Eighth Annual Vancouver International Film Festival was held Sept. 23–Oct. 2 in Vancouver, B.C., Can. Both feature-length and short films were presented from countries around the world, including India, France, Netherlands, Thailand, Philippines, Poland, Germany, Rumania, Czechoslovakia, Soviet Union, and Japan as well as English language films from Great Britain, Ireland, Australia and the United States.

The 11th Annual Robert Flaherty Film Seminar was held Aug. 29–Sept. 4 at Arden House (near New York City) under the auspices of International Film Seminars, Inc., 1125 Amsterdam Ave., New York. The 78 films viewed and discussed included both feature-length and short films. The program was arranged by Edith Zornow, producer of the *Art of Film* television series.

Harry F. Olson, Director of the Acoustical and Electromechanical Research Laboratory of the Radio Corp. of America, is the recipient of the Audio Engineering Society Award. Presentation ceremonies took place October 14 at the AES Annual Banquet. Dr. Olson was cited for advancement of the AES beyond the call of duty during and outside his official terms of office. Dr. Olson was presented by this Society with the Samuel L. Warner Medal in 1955. He is the author of several books on acoustics and holds more than 100 U.S. patents.

Abstracts of Photographic Science and Engineering Literature (APSE), 345 E. 47 St., New York, N.Y. 10017, has announced a reduction in the cost of individual subscriptions, effective January 1, 1966. The new rates are \$15.00 for individual personal subscriptions and \$10.00 for SPSE member personal subscriptions. Rates for other categories of subscription remain the same. Back issues of APSE are available at the old rate.

APSE began publication in March 1962. At that time it was a joint venture of Columbia University and the Society of Photographic Scientists and Engineers. In 1964 APSE was disassociated from Columbia University following the resignation of the Editor, Henry Lester (*Journal*, p. 144, Feb. 1964) and was transferred to the Engineering Index. Miss Leonore H. Hess is Managing Editor.

A conference on Instrumental Approaches to Colorant Formulation will be held February 6–9, 1966, at Williamsburg, Va., under the auspices of the Inter-Society Color Council. The conference will be limited to 100 participants. A conference aim is to present information on the theory and practice of techniques relating to colorant formulation for review, discussion and critical evaluation by qualified workers in the field. Announcement was made by the Office of the Secretary, Ralph M. Evans, Eastman Kodak Co., Photographic Technology Div., Bldg. 65, Rochester, N.Y. 14650.

John G. Truxal, Dean of Engineering, Polytechnic Institute of Brooklyn, is the new President of the Instrument Society of America. Dr. Truxal, who succeeds William

A. Crawford of E. I. du Pont de Nemours & Co., has served as President-elect-Secretary since 1964. Other officers elected at the ISA Annual Council of Delegates Meeting, which was held during the 20th Annual ISA Instrumentation-Automation Conference & Exhibit held during October in Los Angeles, include Lloyd E. Slater, Executive Secretary of the Bioinstrumentation Advisory Council, Washington, D.C., who was elected Vice-President of the ISA Education and Research Department; and Theodore Williams, Professor of Engineering and Director of the Automatic Controls Laboratory, School of Engineering, Purdue University, was elected Vice-President of the ISA Industries and Science Department.

English translations of 32 technical articles, some in Japanese and some in Chinese, and translations of 10 Japanese patents are available from Associated Technical Services, P.O. Box 271, East Orange, N.J. Subjects include Electrophotography, Photoconductivity, Organic Semiconductors, ZnO, PbO, TiO₂, ZnS, Polymorphism, Photosensitive Polymers, Dyes, Sensitometry, Offset Plates, Optics, etc. Price lists, containing brief descriptions, number of words, etc., of these and other translations are available from A.T.S. upon request. Translated papers include "Photoconductance of Vinyl Polymers Having Nitrated Condensed Rings" by K. Morimoto and A. Inami, a 2,800-word study of nitrated polyacenaphthylene, poly-9-vinylcarbazole and poly-1-vinylnaphthalene (priced at \$10.65 for one copy and \$2.50 for each additional copy ordered at the same time), and "Recent Photographic Materials" by S. Kikuchi, a review comparing Ag halide materials, electrophotography (Se, ZnO, ZnO + Ag salt, liquid development, PIP methods), diazo process (Kalvar, PS plates, thermal development, etc.), thermosensitive photography, photosensitive resins. The translation of the review (about 5,250 words) is priced at \$18.85 for the first copy and \$4.25 for each additional copy ordered at the same time.

Increased programing of television for adult education as well as for classroom use is one of the goals of the Metropolitan Educational Television Association of Toronto (META), 84 Queen's Park Crescent, Toronto 5, Ont., Can., as set forth in its Annual Report for 1964.

META is a cooperative educational television service, established in 1959, composed of all metropolitan Toronto area boards of education, University of Toronto, York University, Ryerson, public libraries, Royal Ontario Museum, and other bodies. Its activities include, with CBC and CFTO cooperation, production of classroom and adult education television programs, educational television training workshops and maintenance of a general television coordinating and information center.

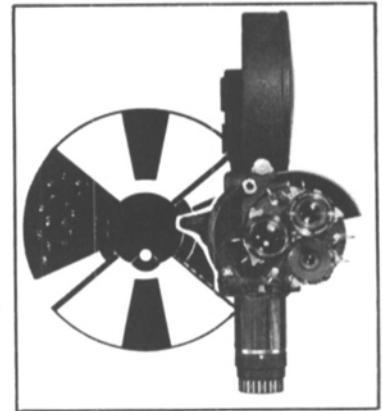
In 1964 META adult education programs included broadcasts on art and religion and psychology. *Age of Overkill*, a series of 13 programs produced in cooperation with CFTO, dealt with the international implications of nuclear arms and the necessity of adequate controls. Also, in 1964, META launched a secondary school

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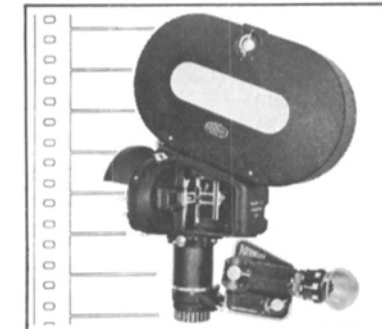
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program in educational television and expanded the schedule of programs for elementary schools to include 132 broadcasts. The report notes that while the total number of educational programs increased during 1964, attention has been focused on achieving higher standards and increasingly effective television production.

Undersea exploration was the topic of a speech by Senator Thomas H. Kuchel (R. Calif.), published in the *Congressional Record* of October 21, in which he mentioned particularly the firm of Birns & Sawyer (6424 Santa Monica Blvd., Hollywood, Calif. 90038), which developed the lighting equipment used on the Sealab II. "It is most gratifying," Senator Kuchel said, "that a small company with only 47 employees contributed so significantly to the success of the venturesome undertaking. Equally pleasing is the fact that the development of the (lighting) equipment did not entail any expenditure of public funds . . ." The Sealab I project was described in a paper in the April 1965 issue of the *Journal*, "Undersea Instrumentation for Photographic and Video Documentation" by James F. Selvidio.

A Research Associate program to study methods for the effective dissemination of technical information has been announced by the U.S. Department of Commerce's Clearinghouse for Federal Scientific and Technical Information. The program is intended for senior level scientists, engineers, documentalists and librarians. Research Associates will be self-supporting, individually or through sponsoring organizations such as private industry, professional societies, or government agencies. The program is also open to candidates for the doctoral degree in information science who wish to do research in partial fulfillment of their academic degrees. Further information is available from Bernard M. Fry, Director, Clearinghouse for Federal Scientific and Technical Information, U.S. Department of Commerce, Springfield, Va. 22151.

The U.S. Information Agency has announced plans to combine the Agency's motion-picture and television services for reasons of economy and efficiency. Head of the combined service will be George Stevens, Jr., who presently heads the motion-picture service. Two committees have been appointed to work out details of the consolidation. The motion-picture service had maintained a staff of 174 and the television service had maintained a staff of 160. It is expected that the merger will result in a reduction of positions.

Industrial Laminates — Key to Product Innovation is a 16mm color motion picture available from Industrial Laminate Section, National Electrical Manufacturers Assn., 155 E. 44 St., New York, N.Y. 10017. The film, which runs 15 min, illustrates properties and applications of high-pressure, thermosetting, laminated plastics. It is intended to interest especially design engineers in the mechanical and electrical-electronic fields.

The Screen Directors International Guild (SDIG), 250 W. 57 St., New York, N.Y. 10019, has announced publication of the 1965-1966 *Directory of Directors*. More than 600 names, representing top directorial talent in every type of screen presentation, are listed. The *Directory* also includes a summary of the current SDIG Basic Agreement, a listing of all film industry labor unions in New York and Chicago, information on how to obtain permits for location photography in metropolitan New York, and an expanded list of Guild Area Representatives. The *Directory* is sent, with the compliments of the Guild, to producers, advertising agencies, sponsors and others who find it especially useful as a reference. A limited supply of the *Directory* is still available.

Editor of the *Directory* is Elaine George. It was published under the supervision of Ira Marvin, Chairman of SDIG Public Relations Committee.

The NAVA Membership List and Trade Directory for 1965-1966 is available from National Audio-Visual Association, Inc., 3150 Spring St., Fairfax, Va. 22030. The 33-page *Directory* is priced at 50 cents. Names and addresses of NAVA officials and members are listed and names and addresses of dealers and manufacturers of audio-visual equipment are given.

Network companies have not fully realized their national responsibilities, according to Sir Charles Moses, Secretary-General of the Asian Broadcasting Union, and former General Manager, Australian Broadcasting Commission. He made the statement during a talk on "Selling or Serving?" delivered on the occasion of the presentation of the 1964 Alfred I. du Pont Awards in Radio and Television. In a discussion of aid to developing countries, apropos of the responsibilities of broadcasters, Sir Charles said, ". . . broadcasting, properly used, is one of the most effective means of dealing quickly with some of the most pressing needs of developing countries, such as education and increased production. . . it is the national duty of big broadcasters to help in this work."

"Training can best be undertaken by the big networks of America and the major national broadcasters of Europe and Asia," Sir Charles said. He added, "A direct professional relationship—broadcaster to broadcaster—need have no taint of patronage or charity. The developing countries seek, and would be grateful for, any genuine assistance that has no association with propaganda or commercial markets. They are entitled to this attitude and to their natural wish to develop their own cultures rather than have viewpoints imposed upon them in the name of aid."

A list of American Standards on Sound, Mechanical Shock and Vibration is available from American Standards Association, Inc., 10 E. 40 St., New York, N.Y. 10016. About 60 Standards and International (ISO) Recommendations are listed under five categories: Definitions and Symbols; Measurement Procedures, Laboratory Calibration and Tests; Equipment for Sound Measurement and Recording; Bio-

acoustics; and Characteristics of Equipment.

Among available standards are: Acoustical Terminology (including Mechanical Shock and Vibration) (S1.1-1960), \$4.50; Laboratory Standard Pressure Microphones, Specification for (Z24.8-1949), \$1.30; Octave-Band Filter Set for Analysis of Noise and Other Sounds, Specification (Z24.10-1953), \$1.30; Flutter Content of Sound Recorders and Reproducers, Method for Determining (Z57.1-1954), \$3.00.

A Sound Package, containing 27 Standards, is available in a leatherette binder at a price of \$42.00. A Mechanical Shock and Vibration Package, containing 14 Standards, is also available at a price of \$22.00. A combined package (with two binders) is available at a price of \$52.00.

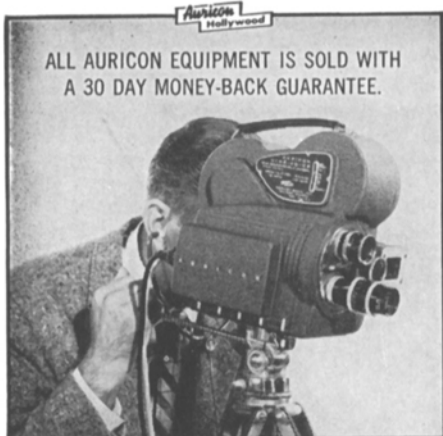
Centralized and wholly automated catalogs on audio-visual materials have been accomplished under the Automated Cataloging Project at the University of Southern California, directed by Glenn McMurry. The next step, according to Mr. McMurry, will be to have the audio-visual materials, themselves, electronically stored in central locations for immediate accessibility, by means of sophisticated information-retrieval and communication techniques. For example, a teacher who required audio-visual materials in some specific subject area could feed the information into a small computer connected with a larger one at the central audio-visual library. Information on available material could be relayed to the teacher in a few minutes or even seconds. After evaluation of the available material the teacher could then use the same method for ordering specific material to be transmitted at a set time to a classroom. Transmission could be by closed-circuit television, video tape or magnetic disc.

The presently used automated cataloging system uses a call-card system to retrieve information from computer storage, integrate indigenous materials and printout a catalog to be used by the school.

Standard specifications governing the reproduction of documents in microfiche form by Federal agencies have been adopted by the Committee on Scientific and Technical Information (COSATI). Published by the Office of Science and Technology, Executive Office of the President as Document PB 167 630—*Federal Microfiche Standards*, it is available from Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151. The standards can also be ordered as microfiche at the same price with the NBS Microcopy Resolution Test Chart included. The chart has the resolution reading indicated both by the pattern recognition method and by the NBS line count method.

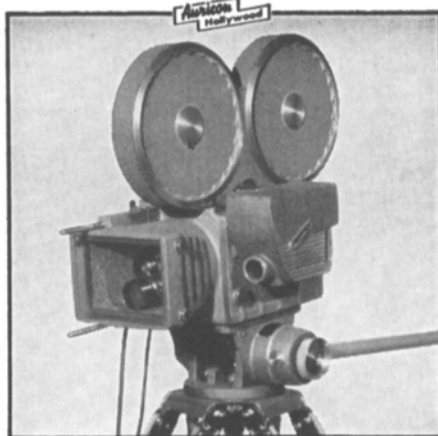
The standards, to be applied to micro-filming of scientific and technical reports by all Federal agencies and their contractors, include detailed specifications on microfiche size, film characteristics, reduction ratio, material arrangement and placement, legibility, resolution, density and archival.

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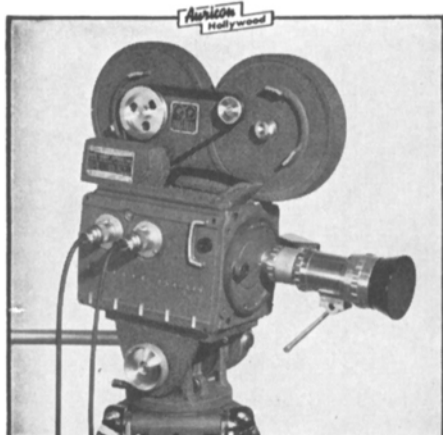
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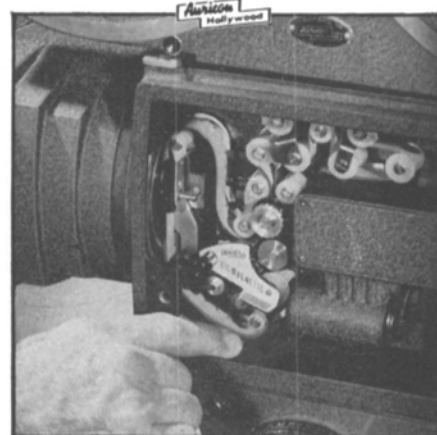
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Anscocolor® D/50 Type 2311—The improved "standard" speed Anscocolor, with sharper definition, better color saturation and richer colors. Daylight ASA 50.

Anscocolor D/100 Type 2210—Introduces important advances in color fidelity, fine grain and sharpness in high-speed color film. Daylight ASA 100.

Anscocolor T/100 Type 2240—The same sharpness, fine grain and rich colors in a high-speed film balanced for tungsten. Tungsten ASA 100.

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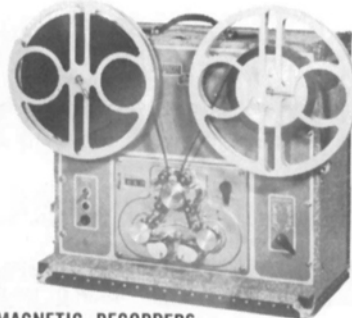
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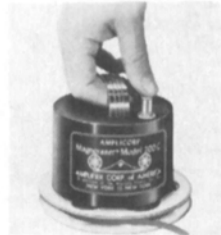
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CM-503 — ELECTROVOICE MODEL 642 CARDLINE MICROPHONE—a highly directional dynamic microphone with a working distance of 2 to 3 (or more) times then that of conventional types. Minimum mechanical shock transfer and wind noise interference. fr. \$395.00



CM-504 — FREZZO WIRELESS SYNC SIGNAL SYSTEM—Model 100D Portable Power Pak supplies 110V 60 cycle. Nickel Cadmium batteries. Built-in charger. From \$450.00 New wireless sync signal model. Eliminates wires between camera and recorder. fr. \$895.00



CM-505 — SENNHEISER WIRELESS RADIO-MICROPHONE SYSTEM—FM transmitter battery operated receiver for use on location, newsreel or documentary filming requiring wireless pickup from a remote source. \$630.00



CM-506—UHER "4000L REPORT" ¼" recorder—combines portability with professional sound quality. Completely quiet, uses less current. Rechargeable battery, carrying case, a.c. adapter, microphone included. Ranger-Tone LIP-Sync signal generator available. fr. \$440.00

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Helicon Audio-Visual Consultants Inc., 575 Madison Ave., New York, N.Y. 10022, is a firm of consultants specializing in the scientific/artistic field of mass communications. President of the firm is Joel M. Glickman. Vice-Presidents are Robert H. Nothdurft and Hugh C. Oppenheimer. The announcement of the firm's services states, "In the space of a few years, audio-visual communication has been recognized as one of the most dynamic and influential forces in modern society." Services include surveying and analyzing communication requirements; planning and conducting feasibility studies; developing programs, systems and procedures; and supervising suppliers and evaluating performance to assure control of price, quality and schedule.

The David Atherton Color Lab., Inc., Room 603, 202 E. 44 St., New York, N.Y. 10017, is a new color printing firm announced by David Atherton of the new firm. Services available from the new laboratory include all phases of professional color printing on Type C and Type R papers, duplicate transparencies and slides, slidefilms and filmstrips for educational purposes. Mr. Atherton was formerly Executive Vice-President and General Manager of Jack Ward Color Service, Inc., which is no longer engaged in the color film printing business, the announcement stated.

Trends in motion-picture theater architecture reflect the increase in size of American moviegoers during the last half-century. A survey by the Society of Actuaries of Chicago shows that in 1959 the average height of the American male had increased two inches since 1912 while the height of females increased one inch; which means, according to Michael Linden, Director of Research for the Motion Picture Association of America, that "American movie-going audiences are bigger physically and more sophisticated than their pre-World War II forebears."

In deference to the long-legged males (and females) of today, aisles in the new motion-picture theaters are now 38 to 40 inches wide as against earlier between-seats measurements of 31 to 32 inches, while seats are 22 inches wide as against the 17- to 19-inch width of pre-World War II seats.

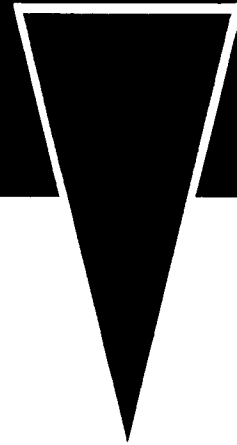
Other changes in the motion-picture theater have been influenced by such developments as Cinerama and 70mm film. In decorating, the general trend is toward an atmosphere of simple elegance rather than baroque magnificence to appeal to today's "sophisticated" tastes.

A compact solid state laser said to produce high-power continuous light beams with the greatest efficiency so far achieved from a solid has been developed by Radio Corp. of America. The new device is a garnet crystal, composed of yttrium, aluminum and oxygen, containing trace amounts of chromium and the rare earth, neodymium. According to the RCA announcement, the first three materials combine to form a molecular framework or "host" in which the latter two, the active elements of the system, are suspended. When a mercury vapor lamp is focused on the crystal, a

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small fraction of its light energy is absorbed by the neodymium atoms, which begin to fluoresce in characteristic laser fashion. Still more of this light is absorbed by the chromium atoms and some of these also fluoresce. However, the majority transfer their newly acquired energy to the neodymium atoms instead. Thus the neodymium atoms undergo a double-pumping action which causes them to release much more light than they would ordinarily.

A photoconductive device that can sense up to 100 million changes a second in light intensity and therefore may be employed for practical laser communications, e.g., distinguishing as many as 25 separate television programs being carried simultaneously on a single laser beam, has been announced by Radio Corp. of America. The new light sensor is a "freckle-sized" speck of photoconductive material mounted in a small cavity continuously bathed in microwaves oscillating at 10 billion cycles/sec, the announcement stated. When light bearing information in the form of intensity variations enters the cavity and strikes the photoconductor, it frees electrons that begin to oscillate rapidly up and down within the material in response to alternating electric field inherent in the surrounding microwaves. These electron oscillations, in turn, control the amount of microwave power permitted to leave the cavity. Thus, the intensity variations in the incoming light are converted to intensity variations in the outgoing microwaves. These are detected

and processed by conventional microwave techniques similar to those used in radar and commercial television systems.

Sickles Sales & Service Co., Scottsdale, Ariz., has announced expansion of its facilities for the second time this year. According to the announcement, increased demand for audio-visual equipment has increased demand for the firm's Emby-Homrich optical printers and Byers cutters and mounters as well as the firm's own line of Circle S Slide-Filmstrip Printers. Expansion activities include sales and service as well as manufacturing facilities.

Zeiss Ikon/Voigtlander of America, Inc., a newly formed subsidiary of Carl Zeiss, Inc., will distribute in the United States all photographic equipment made in Germany by Zeiss Ikon, of Stuttgart, and Voigtlander, of Braunschweig, as well as Metz electronic flash units. Herbert H. Peerschke is President of the new subsidiary and Karl H. Breford is Vice-President and Sales Manager. Headquarters of both firms remain at 444 Fifth Ave., New York, N.Y. 10018.

James L. Wassell has announced his resignation from Bell & Howell Co., Chicago, where he has held the position of Director of Marketing, Professional Equipment Division, for the past five years. He joined Bell & Howell in 1955 after

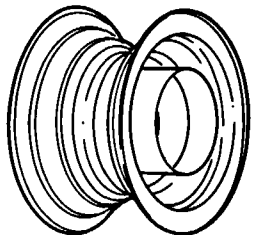
serving as Midwest Regional Manager for Anso professional motion-picture products. Mr. Wassell was co-recipient in 1963 of a Scientific-Technical Academy Award for his contributions to a "new and improved automatic motion-picture additive color printer." At present, recovering from surgery, Mr. Wassell's immediate plans include an extended vacation following which he expects to make an announcement regarding plans for the future.

Two appointments have been announced by Eastman Kodak Co. Ethan M. Stifle has been appointed Sales Manager, Motion Picture and Education, Midwestern Region, and Kenneth M. Mason has been appointed Sales Manager, Motion Picture and Education, New York City Region. Mr. Stifle has been with Eastman Kodak Co. since 1931 when he joined Kodak Research Laboratories. Later he transferred to the Finished Film Dept. at Kodak Park and held supervisory posts in the Cine and Sheet Film Departments. In 1945 he transferred to the Kodak Motion-Picture Film Dept. in New York City and five years later he was appointed Manager of the department's East Coast Division. In 1963 he was appointed Manager of Engineering Service, Motion Picture Product Sales, East Coast Division.

Mr. Mason has been with Eastman Kodak Co. since 1935. He worked on experimental film processing on Kodachrome Film and later in the Film Developing

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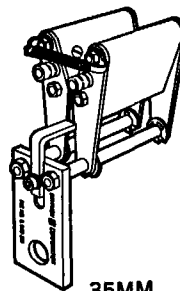


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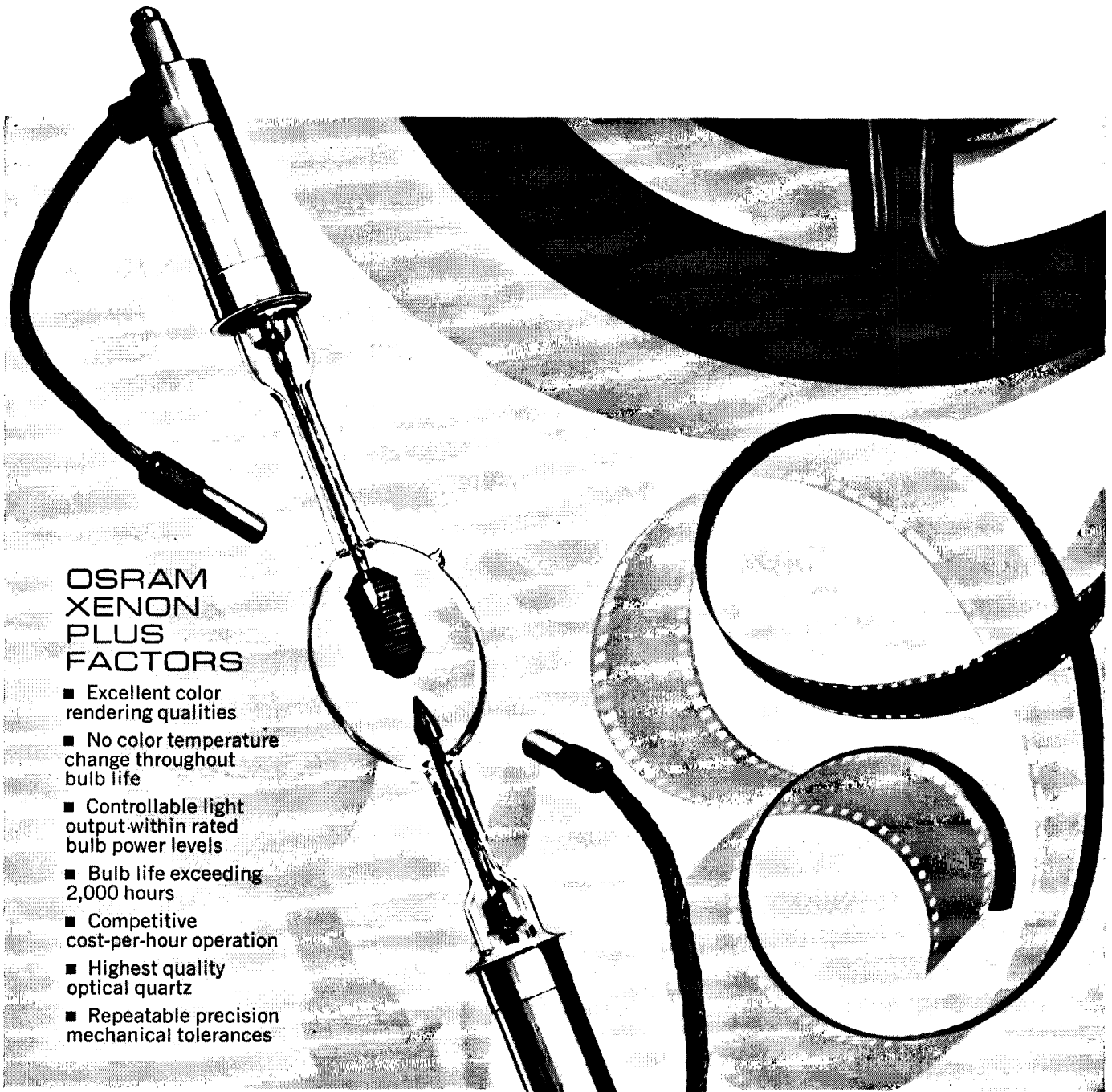
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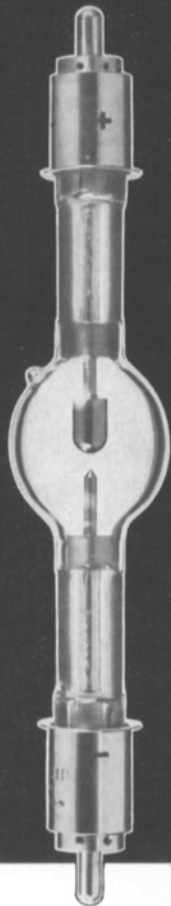
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Dept. of Kodak Research Laboratories. In 1942 he was responsible for the schedule and production planning of Cine Kodak Film. During World War II he held the rank of Lieutenant and was stationed at the Naval Air Station at Anacostia where he was head of the Processing Div. of the Photo Science Laboratory. In 1946 he returned to Kodak as a staff engineer in the Motion Picture Film Dept. Four years later he was appointed Manager of the department's Midwest Division. In later appointments he became General Manager, Midwest Div., and Sales Manager, Motion Picture and Education, Midwest Region.

John A. Pistor has been appointed Director of Motion Picture Trade Relations, Motion Picture and Education Markets Div., Eastman Kodak Co. He was formerly Sales Manager of the Division's New York City Region, a post he had held since February 1965. Mr. Pistor has been with Eastman Kodak Co. since 1938. He began work in the Motion Picture Sales Dept. in 1946. Ten years later, on leave of absence, he became associated with W. J. German, Inc., in an executive capacity. In 1963 he returned to Eastman Kodak as General Manager of the Motion Picture Product Sales Division, East Coast Division.

Mrs. Ruth J. Chamblee has been appointed to the newly created post of Federal Programs Specialist for National Audio-Visual Association, Inc., 3150 Spring St., Fairfax, Va., 22030. Mrs. Chamblee will report on the operation of Federal programs which relate to the audio-visual dealer and manufacturer. The information will be disseminated through *NAVA News*; through special reports on specific procedures; and by correspondence in answer to individual inquiries from NAVA members. Mrs. Chamblee was formerly managing editor of *College and University Bulletin*.

William Shockley, one of the inventors of the transistor, has returned to Bell Telephone Laboratories following a nine-year absence. His new position is that of Executive Consultant on Applied Research and Development of Electronic Components. He is presently the Alex M. Poniotoff Professor of Engineering Sciences in the Department of Electrical Engineering at Stanford University and he will continue in this position in addition to his new position with Bell Laboratories. Dr. Shockley joined Bell Laboratories in 1936. His work included vacuum tube and electron multiplier design, studies of various physical phenomena, alloys, radar development, and solid state physics, including magnetism and semiconductors. During World War II he held a number of government positions and after the war he returned to Bell Telephone Laboratories as supervisor of a group doing research on solid state physics. One result of this work was the invention, in 1948, of the transistor for which Dr. Shockley, Dr. John Bardeen and Dr. Walter H. Brattain shared the Nobel Prize in physics.

Leo E. Persselin has been appointed Director of Training Technology of the Video Systems Div., Hughes Aircraft Co., P.O.

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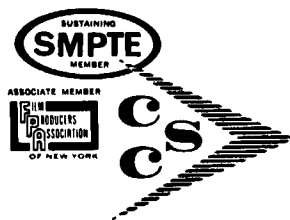


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Box 3310, Fullerton, Calif. Mr. Persselin was formerly associated with Ramo-Wooldridge Corp., Space Technology Laboratories, and Aerospace Corp., where he was head of motion-picture production in support of U.S. Air Force ballistic missile and space programs. He conducted the first studies of automated instruction feasibility for the Air Force Ballistic Systems Division. Among other publications he is the author of "The Use of Motion Pictures for Automated Instruction," which appeared in the September 1964 issue of the *Journal*.

Robert Bollen has been appointed Manager, Special Projects, Visual Electronics Corp., 356 W. 40 St., New York, N.Y. 10018. Designer of Visual's Audio Automation Systems demonstrated at the Society's Conference (98th) in Montreal, Mr. Bollen was the engineer in charge of

the Visual Exhibit. As Field Engineering Supervisor for the firm, Mr. Bollen had supervised application engineering on installations designed to provide coordinated technical systems for radio and television studio and transmitter installations. He was formerly with Allen B. DuMont Laboratories where he supervised field installations of broadcast studios and transmitters and closed-circuit television installations throughout the United States, Canada and Latin America.

Donald A. Littleton has been appointed Television Studio Supervisor for the Delaware Educational Television Network. Mr. Littleton was previously with the Federal Aviation Agency in Salt Lake City, Utah, and has also been with KXLJ AM-TV in Helena, Mont., KTWO-TV in Casper, Wyo. and WLUB in Salt Lake City.

Paul W. Fassnacht has been appointed General Manager of the Motion Picture Division of Technicolor Corp. Mr. Fassnacht has been with the firm since 1929. A Vice-President of Technicolor Corp., he will continue as Director of Systems Research Div. and Vice-President of Technicolor International Operations.

Cornelius R. Webster, Berkshire, England, has been appointed to the staff of Visual Electronics Corp., 356 W. 40 St., New York, N.Y., to handle sales to the European market. He was formerly Technical Director with Carrion Television Systems, Ltd., where he was concerned with broadcast and closed-circuit installations. From 1960 through 1963 he was Senior Video Tape Project Engineer with Ampex Great Britain, Ltd., Reading, England.

Irving Schwartz, Treasurer of F&B/CECO, Inc., 315 W. 43 St., New York, N.Y. 10036, has been made a Vice-President of the firm. He will continue as Treasurer in addition to his new duties as Vice-President. He has been with the firm since 1959.

Three new appointments have been announced by Red Lake Laboratories, 2971 Corvin Drive, Santa Clara, Calif. 95051. Donald J. Southard has been appointed Sales Manager; Joe Y. Saunders is Manager, Service and Applications; and Al H. Soria is Quality-Assurance Supervisor. Mr. Southard was formerly stationed at Redstone Arsenal, Ala., where he served as pictorial officer for the U.S. Army Missile Command. Prior to his service at Redstone, he was Director of Photography and Chief of Photographic Instrumentation at the Army Signal Research and Development Laboratories at Fort Monmouth, N.J. He was active in the radar Moon experiments at Fort Monmouth, the firing of the first V-2 missile from White Sands Proving Ground, the Eniwetok A-bomb tests, the launching of the first Bumper from Cape Canaveral and the initial experiments in missile-borne television at White Sands. In his new post he will manage foreign and domestic sales of Hycam products as well as direct technical exhibits at trade shows and conventions.

Mr. Soria was also formerly stationed at Redstone Arsenal and Mr. Saunders was formerly with Lockheed Missiles and Space Co.

Broadcasting facilities at EXPO 67 are expected to be the most comprehensive ever planned for an International Exhibition, according to an announcement from Canadian Broadcasting Corp. The Broadcast Centre will include two television studios and six talks-type radio studios with a combination radio and television master control room, also video tape and telecine. CBC will supply facilities and technicians to accommodate visiting broadcasters and will also maintain an exhibit where the public can see actual television programs being rehearsed and performed. This exhibit will be possible because of an observation bridge that traverses the studios. Further information is available from Director of Broadcasting, Expo 67, CBC-EXPO 67, Suite 2016, Place Ville Marie, Montreal 2, Que., Can.

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Patents

- U.S.A. 2,967,119
- Belgium 582,469
- France 1,238,523
- Canada 618413, 618414, 618415
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