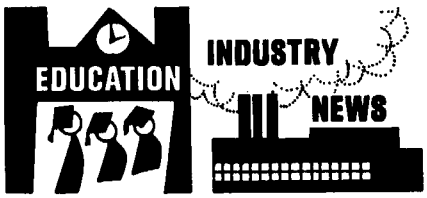

The 10th International Congress of UNIATEC will be held September 18–22 in Berlin, capital of the German Democratic Republic, under the auspices of Klaus Gysi, Minister of Culture. The Congress will be preceded by the 8th International Technical Film Festival of the member countries of UNIATEC to be held September 16–17. Theme of the Congress will be: Consequences of New Procedures of Transmission, Spreading and Storing of Audiovisual Programs on the Techniques of Today and Technical Development of Cinematography, Television and Other Mass Media. The official languages will be German, Russian, French and English. All reports and discussions will be translated simultaneously into these languages. In addition to the technical program, excursions will be provided to the DEFA Studio for Feature Films in Potsdam-Babelsberg, the State Film Archives of the GDR and the DEFA Film Laboratories. Additional information is available from: The Organizing Bureau of the X UNIATEC Congress, DEFA Zentralstelle für Filmtechnik, DDR, 1197, Berlin, German Democratic Republic.

Film '73 (*Journal*, p. 312, April 1972) to be held June 25–29, 1973, will include an outside visits program to enable delegates to view British film and television studios, equipment manufacturing plants, film processing laboratories, sound dubbing theaters and preview and commercial cinemas. Plans include provision for individual visits for delegates with specialized interests. Film '73, arranged by the British Kinematograph, Sound and Television Society will be held at the Royal Lancaster Hotel in London. Film '73 organizer is Paul D. McGurk who can be contacted at the Society's address at 110–112 Victoria House, Vernon Pl., London WC1B 4DJ, England.

Photoelectronic Imaging Devices is the subject of a special summer program offered by the University of Rhode Island, Kingston, R.I., July 10–21. The program will include a series of lectures by scientists from government, industry and universities. The first week of the program will provide an intensive series of lectures covering intensifier and signal generating devices. The second week will begin with two days devoted to prevalent displays. This will be followed by theory, analysis and evaluation of pickup tubes, displays and systems. Five lectures will be presented each day. After the last lecture of the day time will be available for lecturers to meet with students for informal questions and discussions. Further information is available from Professor S. Nudelman, Photoelectronic Imaging Devices, Dept. of Electrical Engineering, University of Rhode Island, Kingston, RI 02881.

The 14th annual MPL Motion-Picture Seminar, cosponsored by Motion Picture Laboratories, Inc., and the SMPTE Nashville Section, will be held July 22 at the Memphis State University Center, Memphis, Tenn. Tentative plans include an extensive equipment exhibit and demonstrations of new films, and comparisons of new and old films and new and old techniques. Further information is available from Frank M. McGeary, President, Motion Picture Laboratories, Inc., 781 South Main, Box 2627, Memphis, TN 38102.

The Institute on Telecommunications and Public Policy has been announced by Harvard Summer School in cooperation with the Center for Research in Computing Technology. It will be held July 13–18 on the Harvard University campus. Speakers and panelists will explore critical interdependencies among CATV, education and other ways and goals of creating, storing, distributing and accessing information. Among the lecturers will be Peter Goldmark who will speak on "The New Rural Society."

The University of Wisconsin has announced two five-day short courses, Cathode Ray and Matrix Display Systems to be held July 17–21 and The Design of Optical Systems to be held September 11–15. The first course is an introduction to the key aspects of modern cathode-ray tube and matrix display systems technology and design. Topics to be covered include fundamentals of display systems, human factors, parameters and measurements, cathode-ray devices, circuit design techniques, comparison of direct view CRT techniques, data conversion systems, data conversion techniques, matrix display systems and applications.

The second course is intended for the engineer involved with optics so that he may acquire a useful degree of familiarity with optical elements in order to lay out a system to perform a given task. Some discussion of aberrations, practical limitations and tolerances will be included. Information about both courses is available from Donald E. Baxa, Program Director, University of Wisconsin, Extension, 432 N. Lake St., Madison, WI 53706.

The International Fair for Film, Television and Audiovision (IFTA) will be held June 26 - July 1 on the exhibition grounds at the Funkturm, Berlin, as an independent event parallel to the International Berlin Film Festival. The purpose of IFTA is mainly the purchase and sale of feature, documentary and short films of all kinds. The fair also offers technical equipment, accessories and raw materials for films, television and audiovision as well as for film theaters and studio installations. Further information is available from AMK Berlin, Abt. Presse und Public Relations, D 1000, Berlin 19, Germany.

The New York Institute of Photography, 112 W. 31 St., New York, NY 10001, has announced a 16-week course in Television Production and Videotape. The emphasis is on the practical aspects of TV production and videotape recording. Theory is taught in terms of operations and production techniques in current use. The students perform production operations under studio and location conditions.

Film and videotape workshops for this summer have been announced by New York University, School of Continuing Education, Div. of Liberal Studies, 2 University Pl., New York, NY 10003. There will be two intensive five-week workshops in the techniques and practical aspects of film production and a videotape workshop. The film production workshops will be held June 26 - July 29 and July 31 - September 1. The videotape workshop will be held in two sections, June 12 - July 31 and June 5 - July 25.

The film production workshops offer students practical experience under the supervision of a faculty of experts in all phases of motion-picture production, including the theory and practice of cinematography, editing, animation and special effects, sound for film and writing for film.

The videotape workshop will instruct students in the use of videotape cameras, recorders, microphones, editing equipment and monitors. The class will use these skills in making videotape productions.

Cinema Institute, Chester Springs, PA 19425, a training school for professional filmmakers, will be held June 18 - July 14. The regular four-week Institute will be preceded by a two-week script writing seminar (June 4–16) where students will create the scripts which will be produced during the Institute. The script seminar is limited to 10 students; the production course is limited to 40 students. During the production course students will produce professional films commissioned by various service organizations, foundations, religious groups and businesses. The Institute assigns students to a crew to work on projects with budgets from $5,000 to $10,000 each, with a professional filmmaker-consultant on each crew. The intent of the Institute is to help provide a bridge between the academic study of film and the professional industry. Cinema Institute is sponsored by Expression Foundation in association with American Film Institute. Director Irvin S. Yeaworth, Jr., whose own films have been released by major studios, started the course in an attempt to help graduates of film schools gain the professional experience necessary for them to find positions in filmmaking.

A Colloquium on The Physics and Chemistry of the Silver Halide Crystal will be held August 23–25 at the University of Montreal under the auspices of the Society of Photographic Scientists and Engineers. Thirty-one invited papers will be presented. The colloqium will be international in scope with papers presented from NIKFI and the USSR Academy of Science, Technical Universities in Munich, Warsaw and Zurich, the Bulgarian Academy of Science and the University of Tokyo. North American contributors include associates of the Universities of Montreal, Illinois, North Carolina and Rutgers and an aggregate of 12 papers by Kodak, Du Pont and Polaroid personnel.

Further information is available from Russell P. Cook, Polaroid Corp., 730 Main St., Cambridge, MA 02139.

Color: Theory and Imaging Systems, a tutorial seminar jointly sponsored by the Rocky Mountain Chapter of the Society of Photographic Scientists and Engineers and Lowry Technical Training Center, will be held November 2-3 in Denver. Subjects to be discussed on the first day of the seminar include human perception, colorimetry, densitometry, sensitometry, image structure analysis, masking and reproduction, development and processing quality control. Subjects to be discussed on the second day include aerial photography, microfilm and hardcopy, positive and negative silver imaging, reversal imaging, silver dye bleach and diffusion transfer. The program will also include a tour of the Aerospace Photographic Training facility at Lowry Air Force Base and demonstrations of methods the Air Force uses to teach color photography and photographic quality control. Additional information is available from Russell P. Cook, Polaroid Corp., 730 Main St., Cambridge, MA 02139.

Encounters With Hollywood Composers, an illustrated lecture series, June 28 - August 16, to be held at California State College, San Bernardino Freeway at Eastern Ave., Los Angeles, CA 90032, will be open to the public without charge. Eight noted Hollywood composers will discuss composing for films and the talks will be illustrated by recordings, tapes and excerpts from films. The composers who will lecture on composing for films include Ernest Gold, Marvin Hamlish, Herschel Gilbert, Elmer Bernstein, Maurice Jarre, David Raskin, John Green and Jerry Fielding. The lectures will deal with the effect of transformation through music of the visual image, the creative use of rhythm, melody and orchestration and other related mtters. Robert Strassburg, Professor of Music at California State College organized the lecture series.

The 50th anniversary of the demonstration of sound on motion-picture film conducted by Joseph T. Tykociner at the University of Illinois will take place June 9. The demonstration was one of the first public exhibitions of sound on motion-picture film and represents a milestone in the development of motion pictures. A paper by Prof. Tykociner ("Photographic Recording and Photo-Electric Reproduction of Sound") appears in the *SMPTE Transactions* of May 1923. Papers by John B. McCullough and Joseph E. Aiken on the work of Prof. Tykociner appear in the August 1958 issue of the *Journal*. More than 70,000 documents on his work have been collected by the University of Illinois. Prof. Tykociner died in 1969 at the age of 92. His obituary appears on p. 1026 of the November 1969 issue of the *Journal*.

Chicago Biocommunications '72, the 42nd annual convention of the Biological Photographic Assn., will be held August 13-18 at Arlington Park Towers, Arlington Heights, Ill. Invited papers will be given on: Development of Multimedia Self-Instructional Material for Teaching Gross Anatomy; Photography From Manned Space Craft; Holography and Its Medical Photographic Applications; Miniaturization and Information Retrieval; Current Status of Biomedical Television — Trends and Potentials; and The Salon Print. The convention will also include workshops, discussion sessions and tours of photographic facilities. Further information is available from Dr. Leon J. LeBeau, Dept. of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, IL 60680.

Seton Hall University's Fourth Annual Summer Instructional TV Workshop will be held Mondays through Thursdays July 3 - August 3. The workshop is designed to provide a thorough orientation to educational and instructional TV, including organization and planning, production techniques and utilization in the classroom and other learning situations. Lectures, discussions, screenings and critiques of films and videotapes and scripting, producing and directing of workshop programs will take place in the university's television center. Further information is available from Robert J. Allen, Assistant Professor, Dept. of Communication, Seton Hall University, South Orange, NJ 07079.

Peter C. Goldmark, President of Goldmark Communications Corp. and advisor to the Rural Development Subcommittee of the U.S. Senate Committee on Agriculture and Forestry, said "The imaginative use of existing communications technology can help to correct the imbalance caused by 90 per cent of the people in this country living on less than 10 per cent of the land and improve such vital services as education and health care." Dr. Goldmark spoke at Technology Week II, the National Science Conference held in April under the sponsorship of the Georgia Institute of Technology. Dr. Goldmark said that such communications systems as cable television, facsimile and broadband communications channels can be put to use in rural areas to attract business and provide people with employment and economic opportunities now available in large urban concentrations.

The National Technical Information Service (NTIS) of the Department of Commerce, Washington, DC 20230, has announced Weekly Government Abstracts, a new subscription series in five areas of interest: Environmental Pollution and Control ($22.50 annually); Computers, Control and Information Theory ($22.50); Materials Sciences ($22.50); Transportation ($17.50); and Management Practice and Research ($17.50). A discount of $3.00 is given for each additional category when included with the original subscription. Customers from overseas, Canada and Mexico must add $5.75 to categories priced at $22.50 and $4.50 to those at $17.50. Publications cited are produced by over 225 U.S. Government agencies and by leading private organizations. Each newsletter reports on such technical advances as testing of materials and processes now in use, development of new techniques and methods, ways to improve existing products, methods, and modification of materials and processes.

Three new standards are available from American National Standards Institute, 1430 Broadway, New York, NY 10018, at a price of $3.00 each.

PH.22-1971, *Methods for Determining Safety Times of Photographic Darkroom Illumination,* describes test methods for determining the length of time a given sensitized material can be subjected to a particular quality and intensity of darkroom illumination without noticeably affecting the quality of the final record.

PH1.29-1971, *Methods for Determining the Curl of Photographic Film,* gives procedures for quantitatively measuring the departure from physical flatness of photographic films in sheet, roll or strip forms prior to exposure and processing.

PH1.43-1971, *Practice for Storage of Processed Safety Photographic Film Other Than Microfilm,* deals with the storage conditions, storage facilities and handling and inspection procedures for processed safety photographic films in roll, strip or sheet form, regardless of size.

The EIAJ - Type I Open Reel Helical Scan Videotape Machine Manufacturer and Model List, a six-page report, is available from National Industrial Television Assn., P.O. Box 262, Maplewood, NJ 07040, without charge for a single copy if the request is accompanied by a self-addressed 4 by 9 envelope and 16 cents postage. The report identifies 25 different EIAJ - Type I models available under brand names of 10 different manufacturers. The history and various technical and operational concerns of the EIAJ - Type I Standard are reviewed.

The USITT Theatre Consultants List, 1972 edition, has been announced by U.S. Institute for Theatre Technology, Inc., 245 W. 52 St., New York, NY 10019. The book lists theater consultants and provides information on their training and experience. The book also lists representative projects for which each person listed has acted as consultant and provides information as to the nature of the consultation, the name of the client, the location of the project and its more pertinent factors. The *List* is priced at $20 ($15 to USITT members).

A miniature gas laser about two inches long and twenty thousandths of an inch in diameter has been developed at Bell Telephone Laboratory using hollow glass waveguides. The waveguide gas laser tubes are fabricated with inner walls that are very straight and highly polished. By focusing light into this special tube in such a way that in passing down the tube it experiences multiple reflections at the walls, a beam can be efficiently transmitted with low losses. Light is "guided" down the axis of the tube where it can be amplified by a gas discharge. In this way. a much higher amplification can be obtained for a given length of tube than in conventional lasers. In the future it may be that such minia-

ture lasers may be used in communications systems that use coherent light to carry large numbers of voice, picture and data signals.

The Selectavision MagTape system, a new magnetic tape color video player that will enable home TV viewers to watch prerecorded tapes and to record and play back regularly broadcast programs and home TV movies over color sets without receiver modification, has been developed by RCA Corp. and marketing plans are going forward. The system plays recorded tapes, records and plays back regular off-the-air TV programs and, with an associated home TV camera, records and plays back home movies. The system uses a videotape cartridge about the size of an average hardcover book. The cartridge allows one hour of recording and playback. It was reported that Bell & Howell and Magnavox plan to market products based on the new system.

Rediffusion, Ltd., of Great Britain has announced formation of Rediffusion, Inc., a New York corporation with headquarters at 5 Broadway (Newburyport Turnpike), Saugus, MA 01906. Rediffusion, Ltd., is a diversified company involved in the manufacture and distribution of a variety of products and systems including television sets, records, electronic components, cable television equipment, music distribution systems and special systems for the educational, institutional and industrial fields. Early in 1971, Rediffusion set up a field trial project for its two-way, multichannel cable system, called Dial-a-Program, in Dennis Port, Mass. The pilot program, established in cooperation with a local cable operator, included some 200 families in a direct-dial access network to 12 channels, including both entertainment and community services.

Kalart Victor Corp., Plainville, CT 06062, celebrated its 50th anniversary in April. The occasion was marked by a surprise party for Morris Schwartz, founder and Chairman of the Board, given by the employees of the firm. Beginning with his development of photoflash synchronizers and lens-coupled range finders for press-type cameras, Mr. Schwartz has seen the firm's product line expand to a broad range of audiovisual and educational TV equipment. The firm's latest development is the Kalavox soundslide system in which a 35mm slide and a taped commentary are integrated in a single cassette.

Instrumentation Marketing Corp. has been appointed sole United States distributor of the Automax 35mm cine/pulse data recording cameras, according to a recent announcement. All sales, services and modifications will be conducted from the firm's headquarters at 820 S. Mariposa St., Burbank, CA 91506. The firm has two branch offices, one in Silver Spring, Md., and the other in Lake Como, Fla.

A patent for two-phase charge coupled devices (*Journal*, p. 520, June 1971) has been assigned to Bell Telephone Laboratories. The patent, U.S. 3,651,349, "Monolithic Semiconductor Apparatus Adapted for Sequential Charge Transfer," was awarded to Dawon Kahng and Edward H. Nicollian of Bell Laboratories in March. The charge-coupling principle makes possible simple devices that perform electronic functions usually requiring complex integrated circuitry. An exploratory model of a new solid-state video camera using charge-coupled device technology is described in the New Products column in this issue of the *Journal*.

Litton Industries, 360 N. Crescent Dr., Beverly Hills, CA 90210, has announced a total motion-picture theater supply package which can include financing. The "turnkey" package which includes wall-to-wall equipment and furnishings — everything except the theater building — is intended "to stimulate lagging boxoffice profits," the announcement stated, while noting that the current trend is toward smaller, more intimate theaters. The theater supply package includes projection equipment, sound systems, theater design consultation, office and lobby furniture and equipment. The package is available on a long-term lease basis or on a purchase or a lease/purchase plan.

Producers Service Corp., a subsidiary of Boothe Computer Corp., 1200 Grand Central Ave., Glendale, CA 91201, has announced acquisition of the assets and work in process of the Photo Instrumentation Div. of Traid Corp., also of Glendale. The firm presently designs and manufactures special-effects optical printing equipment and mechanical film drive and control systems. The new acquisition will enable it to produce, market and service pulse data recording cameras, gun cameras, film movements and transports, precision projectors, viewers and readers, stop-motion projectors and intervalometers.

Tascam Corp., 5440 McConnell Ave., Los Angeles, CA 90066, is a new firm formed to market recording and playback products manufactured by Teac Audio Systems Corp. of Japan. The new organization will supplement the product and market areas now served by Teac Corp. of America. President of the new firm is H. Hiram Oye. Arne Berg is Executive Vice-President.

Ampex Corp., 401 Broadway, Redwood City, CA 94063, and CCA Electronics, Gloucester City, N.J., have agreed in principle to the acquisition by CCA of the RF Systems Dept. of the Ampex Audio-Video Systems Div. Located in Westfield, Mass., the Ampex RF Systems Dept. produces television transmitters, translators, antennas and coaxial products. It was formed in 1967 as the result of an Ampex acquisition.

Altec Division of LTV Ling Altec, Inc., 1515 S. Manchester Ave., Anaheim, CA 92803, has begun a year-long, nationwide tour of its new Mobile Sound Lab. The Mobile Sound Lab is equipped with the Altec 9300A recording console and four Model 9846 monitor speakers. Each speaker is bi-amp equipped. Playback operation to four-channel sound will be demonstrated in the vehicle together with the Acousta-Voicing process. Technical questions and seminars for interested observers will be a feature of the tour.

Shotec, Inc., formed in 1970 at Clear Lake Oaks, Calif., has relocated to new corporate headquarters at 1717 Junction Ave., San Jose, CA 95112, according to an announcement by Robert D. Shoberg, President and co-founder. The firm has two divisions, Photo Equipment and Leisure-Time Products. Since its formation, the firm has introduced the portable Sholite, a rechargeable fluorescent lantern, a standby emergency fluorescent lighting system, a radio volume booster, and the Shopak, a multivoltage portable rechargeable battery power supply for lighting and photography.

Treck Photographic Inc., 140 Allens Creek Rd., P.O. Box K, Rochester, NY 14618, has announced construction of a two-story, 28,000-ft^2 sales and warehouse facility in Flair Industrial Park, El Monte, Calif. The building is expected to be completed in August. To be called the El Monte Marketing Center, the building will have a fully equipped darkroom where customers can evaluate materials and equipment. The new marketing center will primarily serve graphic arts customers. The Treck marketing center in Los Angeles will continue to specialize in products and equipments for photographic customers.

Robins Industries Corp., 15-58 127th St., College Point, NY 11356, has acquired a 50,000-ft^2 plant in the Comack Industrial Park in Comack, L.I., N.Y. The company will consolidate many of its activities in the new plant. The building, formerly owned by Kalmus Music Stores, has all-on-one floor configuration, parking facilities, loading docks and access to highway transport.

Jean Vivié has been presented with the Insignia of Officer of the French National Order of Merit. Presentation ceremonies took place on May 6, 1971. Mr. Vivié is Founder-Secretary of the Association Française des Ingénieurs et Techniciens du Cinéma and is presently Permanent Secretary. He has been widely recognized for many contributions to standardization, especially in the motion-picture field. His contributions have covered both picture and sound quality as well as methods of measurement in these areas.

Peter C. Goldmark, President of Goldmark Communications Corp., One Communication Plaza, Stamford, CT 06904, has been made a Poynter Fellow of Yale University for "outstanding achievements in the electronic media." He gave the keynote address on April 11 on the New Haven campus opening a three-day discussion of the potential of CATV. A major subject of discussion was the role cable television will play in the "New Rural Society," a concept developed by a National Academy of Engineering research panel

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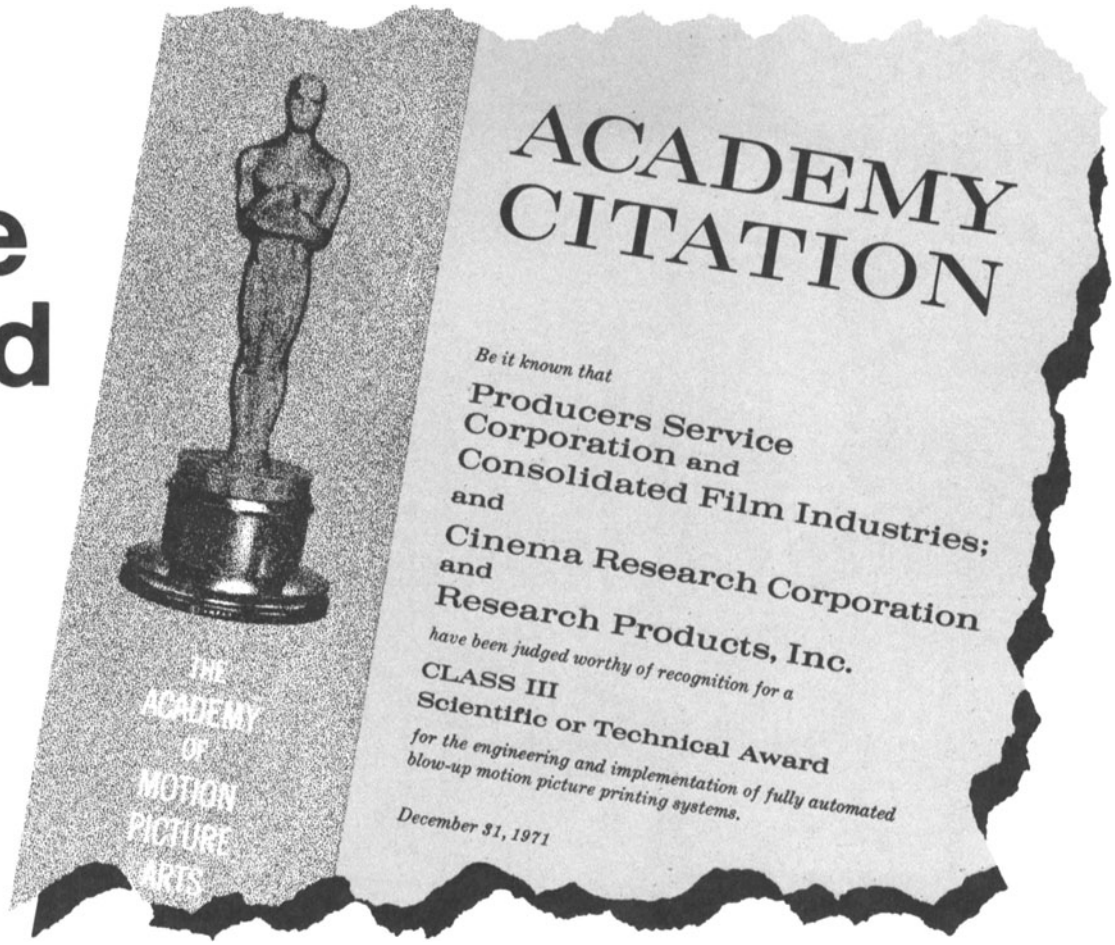

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- Reverse action
- Spin or rocking effects
- Distortion effects
- Matted color titles combined during blow-up (one generation)

These and many other effects **are** done on our four Research Products Special Effects Printers. True, they can only do these effects at slower speeds. But after all — isn't our goal to **improve** the blow-up and solve the producers problems?

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Some of our 16-35mm blow-ups — **Masters of the Sky,** Carl Boenish; **On Any Sunday,** Bruce Brown; **Sunshine Sea,** MacGillivray-Freeman; **Woodstock Three Days of Peace and Music,** Warner Bros; **The Sorrow and the Pity,** Cinema 5; **Medicine Ball Caravan,** Warner Bros.

headed by Dr. Goldmark. A significant target of the program is the preservation of natural resources through relieving the congestion of the big cities by bringing into rural areas segments of large business operations. Through the innovative use of electronic communications, Dr. Goldmark has pointed out, this spreading of job opportunities will reduce power overloads for lighting and air conditioning and will reduce pollution because the need for driving automobiles long distances for essential purposes will be lessened.

K. Blair Benson has been appointed to the newly created position of Director of Audio and Video Engineering of Goldmark Communications Corp., a subsidiary of Warner Communications Inc., it was announced by Peter C. Goldmark, GCC President and Director of Research. Mr. Benson had previously been with Columbia Broadcasting System as Vice-President of Technical Development for CBS Electronic Video Recording Div. He had been with CBS since 1948 where he had held a number of executive positions. Most recently he was responsible for the establishment of EVR system specifications and player product tolerances, technical liaison with licensees in the United States, Europe and Japan, development of new EVR capabilities, research and development budget control and engineering design and development of new cassette manufacturing facilities.

William G. Carr has been reelected President of CINE (Council on International Nontheatrical Events) for a third term. Other elected officials are: First Vice-President, James G. Damon; Vice-President, Festivals, Rev. David O. Poindexter; Vice-President, Finance, Vincent J. Byrne; Vice-President, Information, Thomas Hope; Vice-President, Selections, Edward Oglesby; Secretary, Daryl I. Miller; Treasurer, Anna L. Hyer. New members elected to the Board of Directors are: Peter Boyko, Harriet Lundguard, Rev. Herbert F. Lowe, Herbert E. Farmer, Bernard Landau, William Grayson, Raymond Shady and John G. Spence.

Hans Chr. Wohlrab retired from Hollywood Film Co. on April 1. He plans to return to his native Germany to work on some new ideas for broadening the use of the latest technology in electronics in the motion-picture field. Dr. Wohlrab played an important part in the development of the Bell & Howell Model "C" color printer which received an Oscar Award in 1963. He is a Fellow of the Society and has served as a Governor, a Conference Program Chairman and as a member of the Papers Committee.

Raymond Fielding, Professor of Communications in the School of Communications and Theater at Temple University, Philadelphia, PA 19122, has been elected President of the Society for Cinema Studies, a learned group of film historians, educators, archivists, theorists and aestheticians in the United States and Canada. The 1972 annual meeting was held at Temple University in March. The 1973 meeting will be

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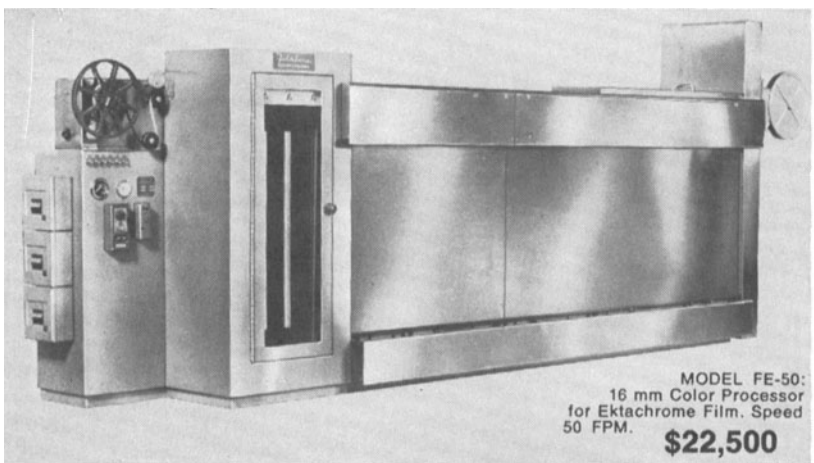

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- **"TEMP-GUARD"** positive temperature control system. Completely transistorized circuitry insures temperature control to well within processing tolerances. Temp-Guard controls temperatures accurately and without the problems of other systems of lesser sophistication.
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TV Stations: WAPI-TV, WHP-TV, WMAL-TV, WXYZ-TV, WWL-TV, WMAR-TV, WJXT-TV, KETV-TV, WTOP-TV, WEAT-TV, WCKT-TV, WAVE-TV, WAVY-TV, KTVI-TV, WCPO-TV, KTAR-TV, WSYR-TV.

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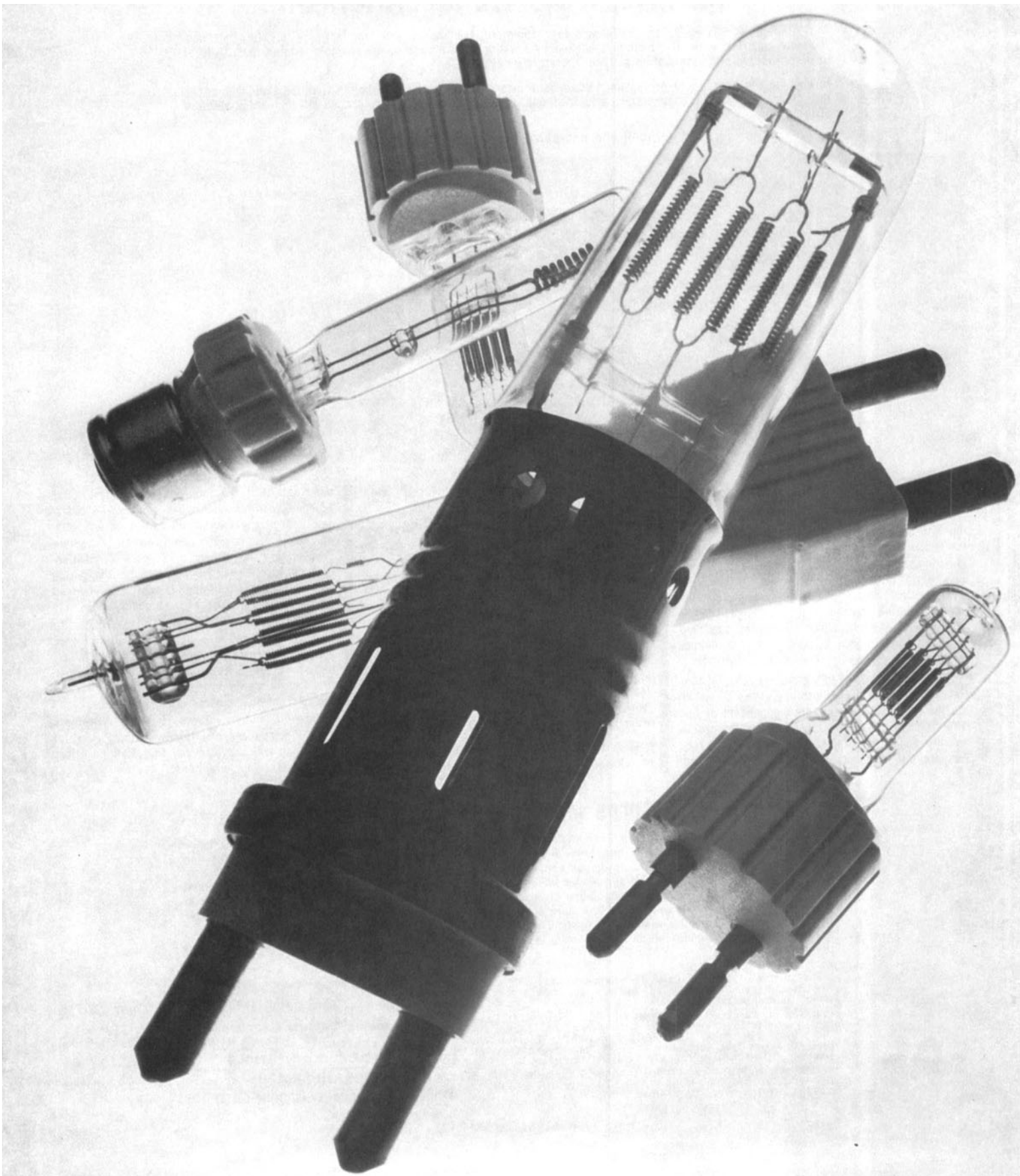
MILFORD, CONNECTICUT
(203) TR 8-2433
"When you buy quality Filmline Costs Less"

Dept. SJ-72

Send for Literature

Time & Lease Plans Available

Some of our substitutes for those big, fat incandescents.



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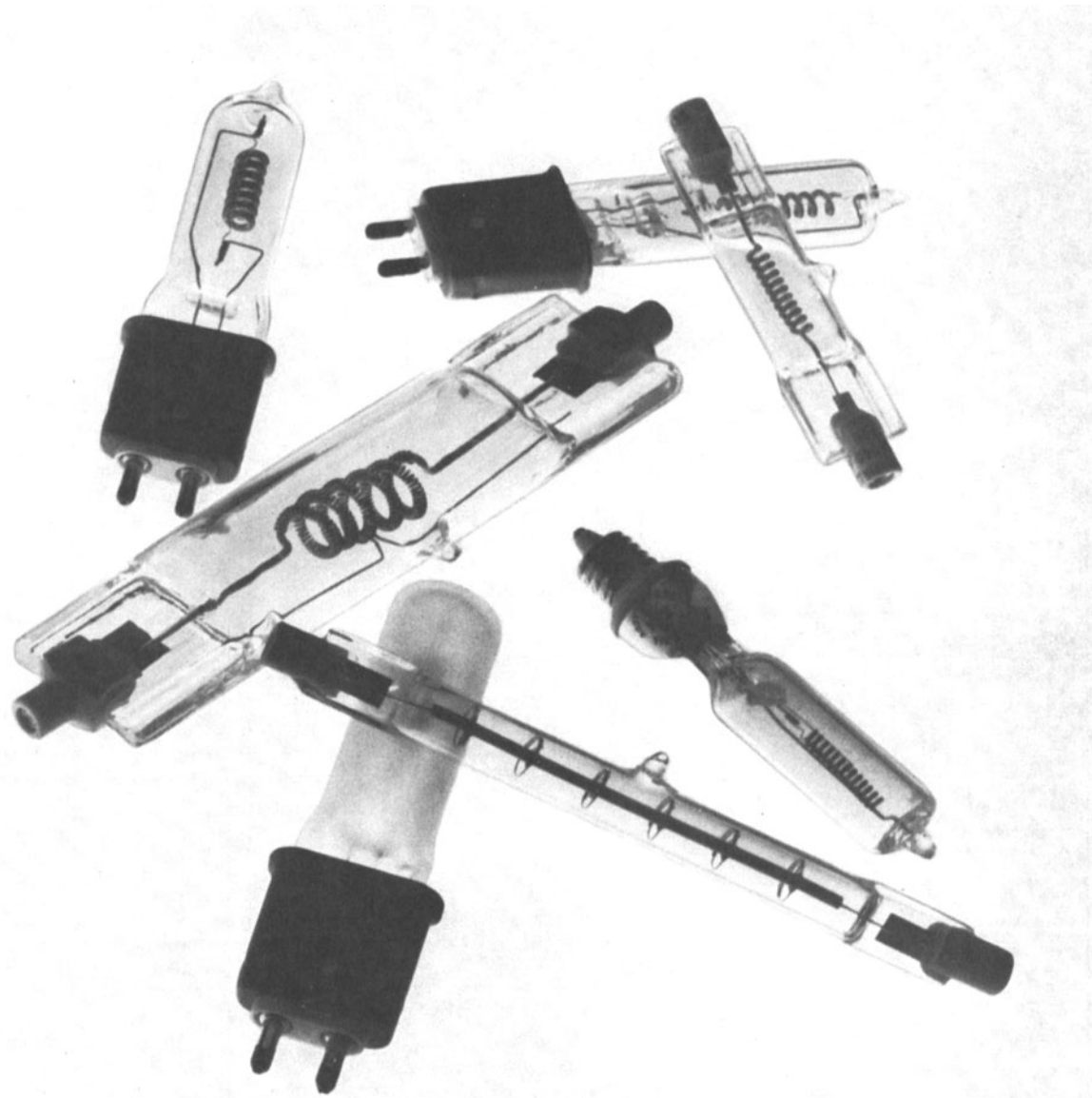

Those big, fat incandescents blessed the world with a lot of big, fat fixtures and sockets.

So after we came up with our skinny, little tungsten-halogen lamps, the first thing we had to do was set them up on big, fat bases so that they'd fit the old sockets.

Which meant developing a complete line of Substitution Lamps. (You see some of them at the left.)

But soon new fixtures arrived on the scene. These took full advantage of the inherent small size of Sylvania tungsten-halogen lamps.

(Which, by the way, outlast the fat incandescents about 3-to-1, don't blacken and lose brightness with age, and don't fall off in color temperature.)

For the new fixtures, we developed a complete new Standard Line of tungsten-halogen lamps, like the ones on the right.

Whenever studios replace their old fixtures with new ones, they can substitute our new lamps for our Substitutes.

Which is OK with us.

Because both of these lines are so much better than the old lamps, that no matter which our customers use, we feel we've done them a world of good.

And there's just no substitute for that.

We have a brochure on each line. For your copies, write to: Sylvania Lighting Center, Danvers, Massachusetts 01923.

GTE SYLVANIA

held at the Library of Congress in Washington, D.C.

John Stott has joined A-R Color Labs, Inc., as Vice-President. The firm's headquarters is at 4199 W. Henrietta Rd., Rochester, NY 14623. He was formerly with Eastman Kodak Co. as Assistant Director of Broadcast Advertising. A-R Color Labs is a full-service professional laboratory for still processing and printing. The facilities include a film processing division and candid machine, school, commercial-industrial and custom portrait divisions.

Eric A. Yavitz has been appointed Director of Sales Development, Education Markets for the Motion Picture and Education Markets Div. of Eastman Kodak Co. He has been with Kodak for 14 years. In his new post he will direct sales planning activities designed to broaden the use of Kodak products by educators and business men in the areas of teaching, training, instructional technology, motivation, sales and documentation.

Robert E. Weissman has been appointed Executive Vice-President and Treasurer of Rediffusion, Inc., 5 Broadway (Newburyport Turnpike) Saugus, MA 01906, according to an announcement by Gilbert A. Allard, President. Rediffusion, Inc., is a newly formed subsidiary of Rediffusion, Ltd., of Great Britain. Before joining Rediffusion, Mr. Weissman was President of Spencer-Kennedy Laboratories in Winchester, Mass.

Charles A. Musson has been elected Executive Vice-President of Audiotronics Corp., 7428 Bellaire Ave., North Hollywood, CA 91605, and James R. Hopkins has been elected Vice-President of Finance, it was announced by Don E. Warner, President. Mr. Musson has been with the firm since 1968 and Mr. Hopkins joined Audiotronics five years ago.

Arthur A. Shubert, Jr., has been appointed Chief Engineer for Rupert Neve Inc., Berkshire Industrial Park, Bethel, CT 06801, it was announced by David C. Neve, General Manager. Mr. Shubert was formerly Senior Project Engineer for CBS. In his new post he is responsible for technical management of the corporation.

Anthony R. Pignoni has been appointed Eastern Operations Manager for the Fernseh line of television equipment for Robert Bosch Corp. His headquarters will be in New York. He will assist in planning and formulating a new division of the U.S. marketing and service subsidiary of Robert Bosch GmbH, Stuttgart, Germany.

Gerard E. Sauer has joined the Technicolor/Houston Photo Science Office as Photoscientist-Supervisor. He was formerly Senior Research Physicist in the Applied Physics Research and Development Dept. of the Industrial Photo Div. of GAF Corp. In his new post Dr. Sauer will be working in the fields of image evaluation, photometry, radiometry and instrument system design.