

Motion Picture Research Council Test Films

The test film program of the Motion Picture Research Council was transferred to the SMPTE following the Council's disbandment March 18 and will be conducted as part of the Society's test film activities.

Announcement of the dissolution of the MPRC (necessitated by a drastic retrenchment program of the Association of Motion Picture Producers) brought about a re-evaluation of its continuing projects, one of the most important of these being the test film program. Assumption by the Society of responsibility for the MPRC test films can properly be regarded as an extension of the Society's own test film program which has been in existence many years.

The MPRC was incorporated in 1947. Prior to that it had existed, in so far as purpose and activities were concerned, first as the Technical Bureau of the Academy of Motion Picture Arts and Sciences, organized in 1928, and from 1932 to 1947 as the Research Council. Of recent years it has received its main support from the AMPP.

Over the years it has worked closely with the SMPTE and a number of papers by MPRC authors, describing various phases of its activities, have been presented at Conventions and many of them later published in the *Journal*. A paper by W. F. Kelley and W. V. Wolfe on "Technical Activities of the Motion Picture Research Council," presenting a brief description of the (then) various programs and activities, was published in the February 1951 *Journal* (pp. 178-196). The most recent of the reports from Council members was a combined report by William F. Kelley and Walter Beyer, "Summarizing Reports on Statistical Data for Motion-Picture Research Council Theater Survey," and "Motion Picture Research Council's Contribution to Better Theater Projection," presented at the Society's 1959 Fall Convention in New York. These are planned for publication in the *Journal* in the near future.

William F. Kelley, who has been associated for many years with the MPRC, will serve as consultant to the expanded phase of the Society's test film program.

Scientific and Technical Awards

Seven Academy Awards were made this year in the Scientific or Technical category; five in Class II and two in Class III. Plaques were presented honoring achievements in the Class II division and a Certificate of Honorable Mention was presented to each of the Class III winners. In the order of presentation, Award recipients in Class II are:

Douglas G. Shearer of Metro-Goldwyn-Mayer and *Robert E. Gottschalk* of Panavision for developing a system of producing and exhibiting wide-film motion pictures known as Camera 65.

Wadsworth E. Pohl, William Evans, Werner Hopf, S. E. Howse, Thomas P. Dixon, Stanford Research Institute and *Technicolor Corp.* for the design and development of the Technicolor Electronic Printing Timer.

Wadsworth E. Pohl, Jack Alford, Henry Imus, Joseph Schmit, Paul Fassnacht, Al Lofquist and *Technicolor Corp.* for the development and practical application of equipment for wet printing.

Howard S. Coleman, A. Francis Turner, Howard S. Schroeder, James R. Benford and *Harold E. Rosenberger* of the Bausch & Lomb Optical Co. for the design and development of the Balcold Projection Mirror. This was the subject of a paper before the Society's Convention in Washington, D. C., in May, 1957. A current technical report, "A Commercial Cold Reflector," is in preparation for early publication in the *Journal*.

Robert P. Gutterman of General Kinetics Inc. and the *Lipsner-Smith Corp.* for the

design and development of the CF-2 Ultrasonic Film Cleaner.

In Class III the Award recipients are: *Ub Iwerks* of Walt Disney Productions for the design of an improved optical printer for special effects and matte shots, and *E. L. Stones, Glen Robinson, Winfield Hubbard* and *Luther Newman* of the Metro-Goldwyn-Mayer Construction Dept. for the design of a multiple-cable remote-controlled winch.

Education, Industry News

More than three thousand art lovers in four cities — New York, Dallas, Los Angeles and Chicago — attended a televised auction sale where 50 works of art and \$871,850 changed hands. Proceeds of the sale went to the Museum of Modern Art. The auction, broadcast over closed circuit, was held in the Parke-Bernet Galleries in New York. Special audio equipment installed by Theatre Network Television, Inc., brought out-of-town bids to New York and large viewing screens in other cities enabled the audiences to view the paintings and statues while listening to the auctioneer's comments. Top prices were paid for Cezanne's "Les Pommès" (\$200,000) and a Braque (\$145,000).

Construction of a new motion-picture theater in a Chicago suburb — the first to be built in that area for more than a decade — has been announced by Raymond J. Marks and Martin G. Rosenfield, owners of M & R Amusement Companies,

1777 Howard St., Chicago. Plans for the theater are based on what is called a "sawtooth" design. The height of the front of the building, according to the plans, would be 20 ft. The roof would follow ten step-ups to a height of 40 ft at the back. The building will be 223 ft long and 105 ft wide with seating space for an audience of 1700. The dimensions of the building will accommodate a screen 60 ft wide and 25 ft high. The theater will be constructed on a seven-acre lot which will include a parking area for 900 cars.

A new closed-circuit educational TV system has been installed at the University of California at Berkeley. It uses a Marconi Mark IV camera with a 4½-in. image orthicon for both closed-circuit and broadcast applications. This camera is being used in the broadcast of a series of lectures on physics over KQED-TV, Channel 9, San Francisco. With approximately 40 ft-c at a distance of 90 ft, using the 6½ to 40-in. range of a Super Universal Zoomar lens, excellent broadcast quality pictures are obtained with an *f*-stop setting between 8 and 11, according to Ken Winslow, Head of Educational Television, Department of Visual Communications. The camera is also used for closed-circuit classroom instruction, using available light under widely varying conditions.

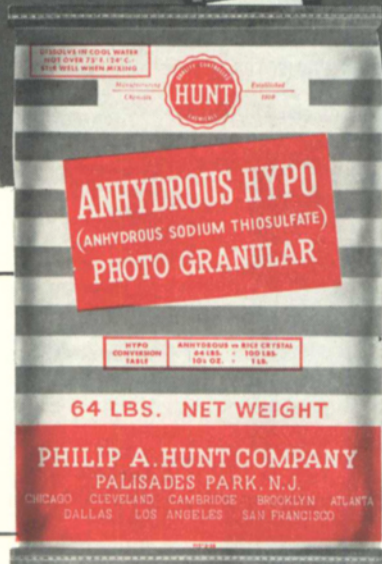
The British Amateur Television Club extends an invitation to any and all SMPTE members who can be in London on Saturday, September 10, 1960, to visit the

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Fifth Amateur Television Convention which will be held on that date in Conway Hall, Red Lion Square, London, W.C.1, from 10 A.M. to 7 P.M. Amateur-built television cameras will be in action and other amateur gear will be demonstrated. Particular emphasis will be laid on slow-scan television techniques. Secretary of the Club is Donald S. Reid, 149 Ongar Rd., Brentwood, Essex.

The 13th Annual Conference on Electrical Techniques in Medicine and Biology, scheduled for the Sheraton-Park Hotel, Washington, D. C., Oct. 31 - Nov. 2, will feature a diversified program on bio-medical electronics, with emphasis on

analytical techniques. Subject areas include (1) General: Flowmetering, Ultrasonic Mapping, Densitometry, Electrophoresis, Mass Spectroscopy, Microwave Spectroscopy; (2) Electroanalytical Techniques: Polarography, Specific Electrodes, Coulometry, Titrant Generators; (3) Waveform Interpretation: Heart Sounds, Nerve and Muscle Potentials, Cardiovascular Pressure; (4) Cell and Particle Counting and Sorting; (5) Analogs; (6) Automated Analytical Methods; and (7) Physiological Monitoring: Patients, Astronauts, etc. As in the past, this meeting will be sponsored by the Joint Executive Committee in Medicine and Biology representing the Institute of Radio Engineers, American

Institute of Electrical Engineers and the Instrument Society of America.

The First International Congress on Medical Photography and Cinematography will not take place in Cologne as previously announced (*Journal*, p. 208, Mar. 1960) but will meet in Düsseldorf (Ehrenhof/Exhibition Ground). The original plans were changed when it became apparent that hotel reservations for prospective visitors to the Photokina were far surpassing expectations, so in order to assure satisfactory accommodations to delegates and visitors to the Congress the meeting place was changed to Düsseldorf.

Photokina 1960 (Sept. 24 - Oct. 2, Cologne, Germany) is expected to surpass in exhibits and attendance all such meetings held previously. Nine halls with a combined display area of 720,000 sq ft will be available for exhibits. A brief report on the industrial situation in West Germany, presented in connection with information on the Photokina, shows that combined sales of all types of photographic equipment, including projectors, increased 13% in 1959 over the 1958 total.

Television Engineering in Science, Industry and Broadcasting was the theme of the Convention of the British Institution of Radio Engineers, held last July 1-5 at the University of Cambridge. The Clerk Maxwell Memorial Lecture, since 1951 an annual feature of the British IRE's Conventions, was delivered by Dr. Vladimir K. Zworykin.

The overall covering of subjects is large. Titles and authors of the papers presented during the Convention were:

- "Industrial Television: A Survey of History, Requirements and Applications," by J. E. H. Brace, Marconi's Wireless Telegraph Co. Ltd.
- "Technical Considerations of Television in the International Field," by T. Kilvington, Post Office Engineering Dept.
- "A Common Carrier Multi-Channel Television Relay System," by K. A. Russell and F. Sanchez, British Relay Wireless Ltd.
- "Some Aspects of the Design of Small Television Stations," by Aubrey Harris, Ampex Corp.
- "Subception," by N. F. Dixon, University College, London.
- "Reduction of Television Bandwidth by Frequency Interlace," by E. A. Howson and D. A. Bell, University of Birmingham.
- "The Plated Circuit in the Large Scale Production of Television Receivers," by W. I. Flack, Radio and Allied Industries Ltd.
- "Some Aspects of Mechanization in the Radio and Television Industry," by F. Packwood, Philips Croydon Works Ltd.
- "Production Soldering Methods With Particular Reference to Flammability Characteristics," by D. W. Heightman, Mains Radio Gramophones Ltd.
- "Printed Circuit Production for a Television Tuner," by P. C. Ganderton, Sydney S. Bird & Sons Ltd.



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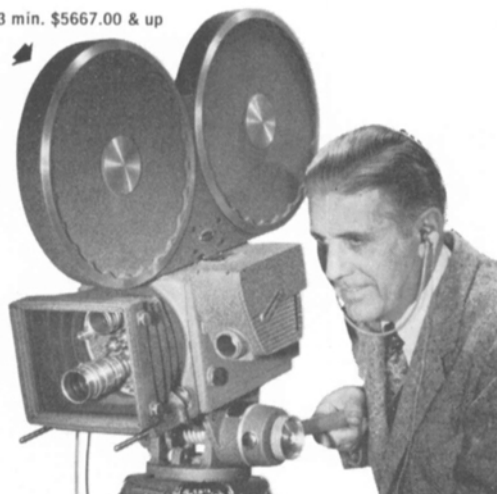
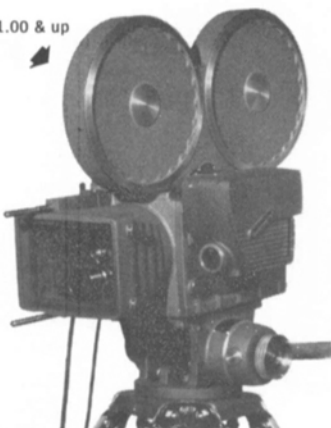
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"The Application of Printed Wiring to Development and Small Batch Production With Particular Reference to Television Equipment," by E. Davies.

"The Combined Television-Radio Receiver and Its Problems," by R. S. Hildersley, Murphy Radio Ltd.

"Assessment of X-Radiation From TV Receivers," by A. Ciuciura, Mullard Radio Valve Co. Ltd.

"Design of Dual-Standard Television Receivers for the French and C.C.I.R. Television Systems," by C. J. Hall, Pye Ltd.

"Television Reception on Band V," by H. N. Gant, E.M.I. Electronics Ltd.

"Time-Base Synchronization and Associated Problems," by P. L. Mothersole, Mullard Research Laboratories.

"Good Practice Techniques in Television Scanning Circuits," by K. E. Martin, Mullard Research Laboratories.

"Television Field Scan Linearization," by H. D. Kitchin, Mains Radio Gramophones Ltd.

"Arguments for and Against the Full Restoration of the D.C. Component With Special Reference to Mean Level Automatic Gain Control," by Dr. E. L. C. White, E.M.I. Electronics Ltd., and S. N. Watson, B.B.C. (for); and J. Gifford, Kolster-Brandes Ltd. (against).

"Transistors in Video Equipment," by P. B. Helsdon, Marconi's Wireless Telegraph Co. Ltd.

"A Transducer Regulator for Stabilized Power Supplies," by A. N. Heightman,

Marconi's Wireless Telegraph Co. Ltd.

"The Testing and Operation of the 4½-in. Image Orthicon Tube," by D. C. Brothers, BBC.

"Some Aspects of Vidicon Performance," by H. G. Lubszynski, J. Wardley and S. Taylor, E.M.I. Ltd.

"A Television Master Switcher," by B. Marsden, Associated Television Ltd.

"Communications in Independent Television," by L. F. Mathews, Associated Television Ltd.

"Automation of Television Programme Switching," by G. E. Partington, Marconi's Wireless Telegraph Co. Ltd.

"Industrial Video Magnetic Recording and Playing Machine," by J. Elliot, E.M.I. Ltd.

"Recent Developments in Video Tape Recording," by C. P. Ginsburg, Ampex Corp.

"Operational Facilities in the R.C.A. Colour Television Tape Recorder," by A. H. Lind, Radio Corp. of America.

"A Mobile Television Camera and Recording Vehicle," by Aubrey Harris, Ampex Corp.

"The Development and Progress of Medical Colour Television," by Brigadier R. D. Ambrose and A. R. Stanley, Smith, Kline & French Laboratories Ltd.

"A Gating Circuit for Single-Gun Colour Television Tubes," by K. G. Freeman, Mullard Research Laboratories.

"A Medium Screen Colour Projector," by Thomas M. C. Lance, Rank Cintel Ltd.

"Methods of Performance Measurement on

Colour Television Receivers," by A. J. Biggs and E. Ribchester, General Electric Co. Ltd.

"Photo-Electric Image Techniques in Astronomy," by B. V. Somes-Charlton, High Definition Television Ltd.

"Design Techniques for Space Television," by A. J. Viterbi, California Institute of Technology.

"The Use of Television for the Microscopical Examination of Radioactive Metals," by E. C. Sykes, U.K. Atomic Energy Authority.

"Phosphors for Use in Cathode Ray Tubes in Industrial and Low Speed Display Scanning Systems," by M. D. Dudley, Ferranti Ltd.

"A Two-Way, Closed Circuit Facsimile System," by R. W. Elbourn, Decca Radar Ltd.

"The Application of Closed Circuit Television in the Nuclear Industry," by P. Barratt and I. M. Waters, Pye Ltd.

"A High-Grade Industrial Television Channel With Reference to Infra-Red Operation," by J. H. Taylor, E.M.I. Electronics Ltd.

"An X-Ray Image Amplifier Using an Image Orthicon Camera Tube," by E. Garthwaite and D. G. Haley, Marconi Instruments Ltd.

"Gap Filling Television Transmitter," by W. J. Morcom, Marconi's Wireless Telegraph Co. Ltd.

"Transmitting Aerials for Television Broadcasting in the United Kingdom," by A. Brown, BBC.

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"Some Aspects of Television Transmission Over Long Distance Cable Links," by H. Mumford, British Telecommunications Research Ltd.

"Waveform Distortion in Television Links," by I. F. Macdiarmid, Post Office Research Station.

"Video Frequency Equipment for Television Centers of the Soviet Union," by B. A. Berlin, State Committee for Radio Electronics, Moscow.

"Application of Television in Industry and Science," V. I. Sardyko, State Committee for Radio Electronics, Moscow.

"Television Set Production in the U.S.S.R.," by A. Y. Bratebart, State Committee for Radio Electronics, Moscow.

"Sync Signal Regeneration System for Low-Power Translators," by P. K. Kirilloff, State Committee for Radio Electronics, Moscow.

"Motion Picture Facsimile Equipment," by S. N. Watson, BBC.

All papers read at the Convention will be found in subsequent issues of the Institution's Journal. A limited number of pre-prints have been listed as still available. Further information may be had by writing to the General Secretary, The British Institution of Radio Engineers, 9 Bedford Square, London W.C.1.

Theater design is included in the categories for recent awards totaling about \$395,000 to "talented persons from several branches of the arts to deepen their experience in the legitimate and lyric theater," announced by the Ford Foundation. Four categories of theatrical activity were thus honored: Theater Designers and Architects; Poets and Fiction Writers; Theater Directors, and Playwrights. Thirty-two awards were made, selected from about 900 nominations made by artists, critics and others prominent in the theatrical field.

In the Theater Design category awards were made to teams of architects and designers. One such award was made to Ben Schlanger, architect, and Donald Oenslager, designer. Their joint project is the efficiency study and design of a theater form-and-space concept in the proscenium, and of a non-proscenium technique producing a maximum number of desirable viewing positions. Mr. Schlanger is a Fellow of the Society and the author of a number of papers published in the *Journal* on various subjects related to motion-picture theater exhibition.

Music in Williamsburg, a recently completed color film, is the first film to be made specifically for television under the Colonial Williamsburg program. The film was directed by Sidney Meyers. The production staff included Robert Ziller, cameraman; Alan Lomax, folk music consultant; and Gene Forrell, music arranger. The motion picture was produced by Arthur L. Smith with Stan Croner as writer and associate producer.

Nearly 700 research projects were carried on during the fiscal year 1958-1959 by the staff of the Armour Research Foundation of Illinois Institute of Technology, according to the Foundation's Annual Report for 1959, which presents highlights and a brief evaluation of typical studies completed or continuing during the year. Main areas of research are in Ceramics; Chemistry; Electronics; Engineering Economics; International; Mechanics; Metals; Physics, and Fluid Dynamics and Systems. Some interesting studies in the Physics Research Division in the field of optics include theoretical and practical aspects of a high-resolution cathode-ray tube using fiber optics; basic studies of diffraction, frustrated total reflection, and information transfer in fiber optics; deterioration of photographic resolution caused by aerodynamical conditions — emission, shock wave, laminar and turbulent boundary layer, etc., — around a hypersonic vehicle. Studies of image quality in an infrared missile guidance system were conducted, resulting in new techniques for a measurement of image degradation.

In addition to research the Foundation conducts licensing operations. In the field of magnetic recording it has continued its studies on increasing information density with emphasis on the use of thin ferro magnetic film for the recording medium. An interesting Hall-effect magnetic playback head was developed. Research in the devices for video recording has led to developments still in the initial stages.

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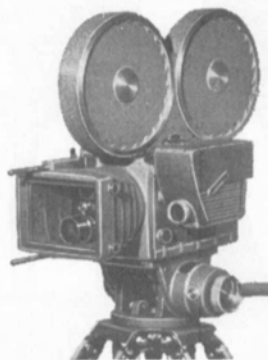


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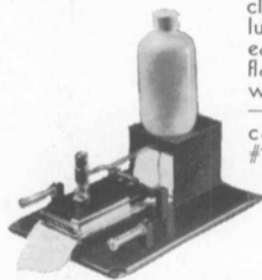
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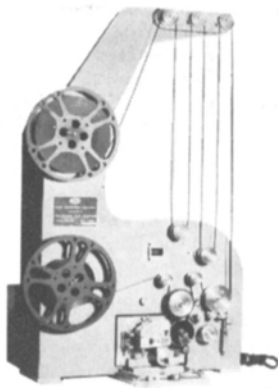


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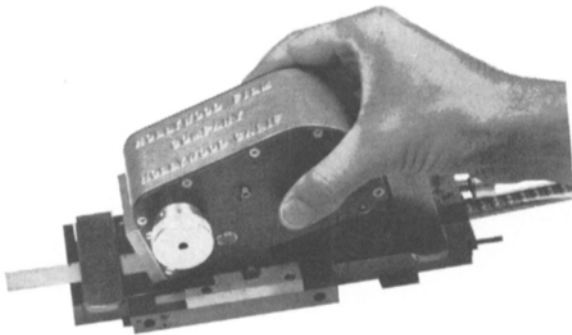
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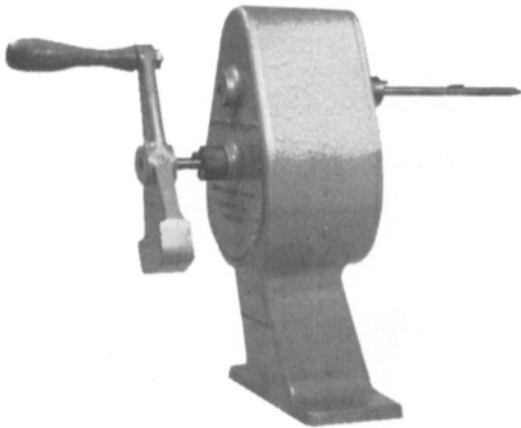
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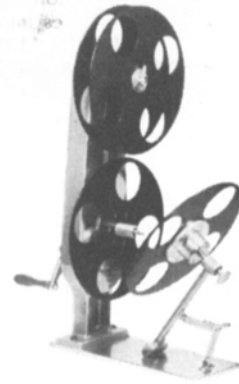
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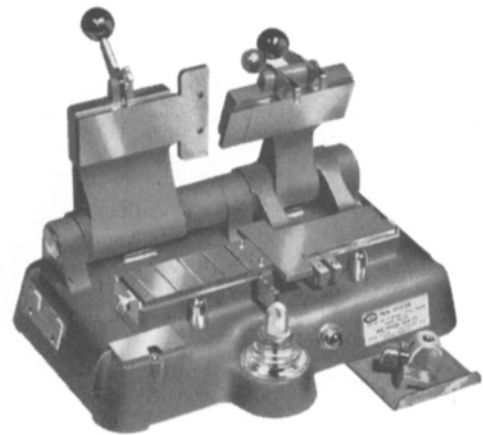
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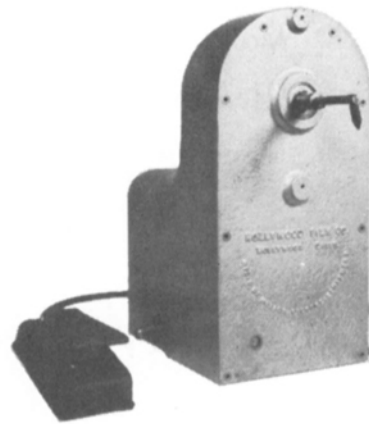
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Twenty-four magnetic recording patents were issued during the year bringing the total number to more than 275 owned by the Foundation.

Telephone-television with all of its intriguing possibilities is here — and quite likely to stay. Demonstrated at the Institute of Radio Engineers Show in the New York Coliseum, March 21–24, Telectrovision, a system which transmits still television pictures over ordinary telephone lines may be of practical value in various industrial and military applications. The system has been developed by Telectro Industries Corp. of Long Island City, manufacturer of magnetic tape equipment. Company representatives said that it was expected that the first unit would be sold to the Air Force for use in its weather radar system. Other suggested applications include use in banks, for identifying signatures and other data, and news services. In describing the device, company representatives said that still pictures can be sent along telephone lines for any distance. It was said that the picture can be stored for later viewing or a permanent copy can be made.

The theater screen advertising division of Reid H. Ray Film Industries, Inc. has been acquired by Alexander Film Co., Colorado Springs, according to an announcement issued jointly by Keith Munroe, President of Alexander Film Co., and Reid H. Ray. The Reid H. Ray Film

Industries is continuing its major activity, the production and distribution work in commercial, documentary, sales and government training films. The Alexander Film Co. maintains an 18-acre studio city at Colorado Springs with facilities for production and world-wide distribution of theater screen advertising, TV commercials and longer films.

Research activities of Bell & Howell Co. of Chicago and its California subsidiary, Consolidated Electrodynamics Corp. (CEC) have been combined into a single, expanded research division located in Pasadena, Calif. Head of the new division is Philip S. Fogg, President of CEC. Charles F. Robinson has been appointed Director of Research, John G. Heiland is Associate Director, and Kenneth W. Gardiner is Assistant Director. Prior to his present appointment, Dr. Robinson was Associate Director of Research at CEC. Mr. Heiland, who has been with Bell & Howell in Chicago for 17 years, has directed the firm's research activities since 1955. Mr. Gardiner was formerly chief research chemist at CEC.

Radio Corp. of America has created a new department called RCA Electronic Recording Products Department. Magnetic recording devices for application in various fields, including business data processing, TV broadcasting, remote control telemetering and space instrumentation, will be within the province of the new depart-

ment. At its head is M. A. Trainer who joined the company in 1930 and contributed greatly to the development program which led to the all-electronic television system. He has been serving as Manager of Market Development for the RCA Broadcast and Television Equipment Division. Jerome L. Grever has been appointed Market Manager for the new department and Henry H. Klerx is Merchandising Manager. A. H. Lind will be in charge of engineering activities and G. F. Rester has been appointed Sales Manager.

Formation of a new firm in the electro-acoustical and electro-mechanical fields, Vega Electronics Corp., Cupertino, Calif., has been announced by Russel J. Tinkham, President. The new firm is particularly interested in precision digital and analog magnetic recording equipment. Other officers and key employees of the new firm are Walter C. Hironimus, Vice-President and Chief Engineer; C. Arthur Foy, Marketing Manager; and Robert Z. Langevin, Francis A. Dicus, Ralph L. Brown, Roger S. French and William E. Magnie. Each of the officers and employees named above has been associated with Ampex Corp. for several years.

The Warren Conrad Portman Co. has been purchased by a newly organized firm, Photo Animation, Inc., 34 West St. So., Mt. Vernon, N.Y. President of the new firm is Warren C. Portman and the Vice-President is William H. Hernstadt. The new firm will manufacture Portman

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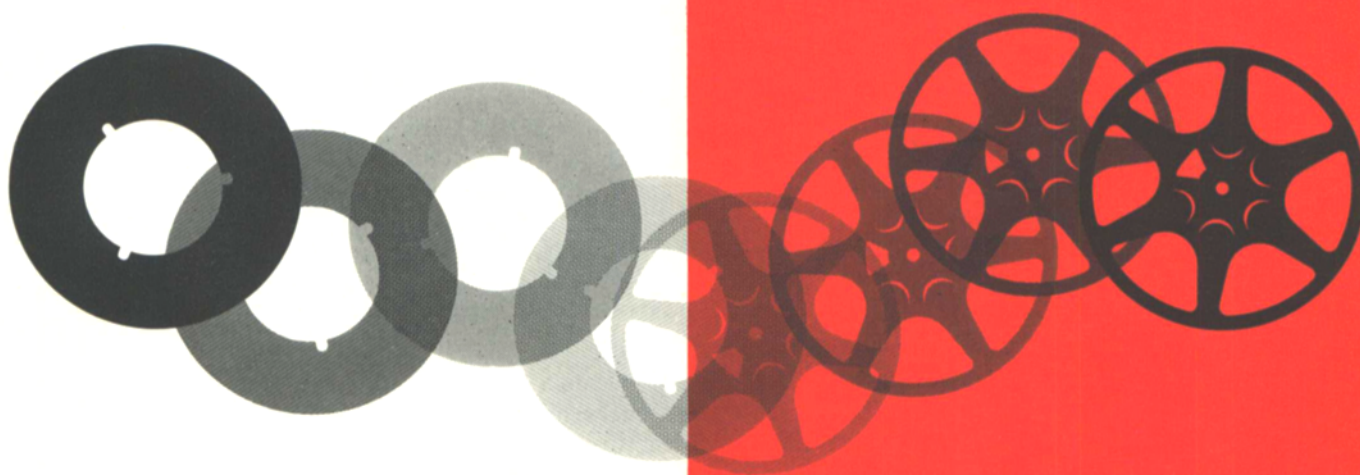
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and Triplex animation stands and will also manufacture other photographic equipment.

A new consulting service on high-speed instrumentation has been announced by Beckman & Whitley, Inc., San Carlos, Calif. Head of the new service is Peter J. Van Zandvoord, formerly in charge of the photographic laboratory of the Wollensak Optical Co., Rochester, N.Y. Organized primarily around applications of Dynafax and Magnifax Cameras, the consulting service includes taking personnel and equipment to the customer's plant. This service makes available analytical applications at rates from 200 to 26,000 frames/sec.

Charges are presently being based on \$200 per day for Dynafax and \$100 per day for Magnifax.

A worldwide film production consultation service has been announced by Florman & Babb, Inc., 68 W. 45 St., New York 36. Countries already visited by Arthur Florman on behalf of the firm to study production facilities include Netherlands, Great Britain, Canada, Denmark, Italy, Germany, Venezuela, Haiti, Panama and Nassau. Later this year the survey will be extended to include Japan, Philippines, Thailand, Pakistan, Israel, Turkey and Greece. Inquiries from independent producers and government agencies throughout the world will be welcomed.

An expansion program which includes construction of a chemical manufacturing plant and general offices has been announced by Philip A. Hunt Co., Palisades Park, N.J. The new building is now under construction. The company moved from New York City to Palisades Park in 1948 and has a total of five manufacturing centers and nine warehouses.

The Hollywood Film Co., 956 Seward St., Hollywood 36, has announced plans to open a branch office in Chicago. The new branch will occupy an area of 10,000 sq ft providing for offices, warehouse and showroom. In addition to the home office in Hollywood, the company presently maintains a branch office in New York.

Camera Equipment Co. of New York has announced the opening of a new sales office and warehouse at 6510 Santa Monica Blvd., Hollywood. The warehouse will carry the full range of equipment presently available at the company's New York headquarters and at its Miami branch. Manager of the new office is Jack Pill.

The Editorial Office of the *American Journal of Physics*, the official publication of the American Association of Physics Teachers, has been moved to Bryn Mawr College, Bryn Mawr, Pa., it was announced by the Editor, Walter C. Michels. It will continue to be published by the American Institute of Physics, 335 East 45 St., New York 17.

Emmett R. Salzberg and David M. Goodman are inventors of an automatic telephone answering device called the Teller, which combines a conventional telephone with a transistorized tape recorder. The answering and recording features of the device are integrated with a standard telephone set without increasing the overall dimensions by more than 2 in. The automatic answering and message recording device does not interfere with ordinary use of the telephone. A turn of the switch can set the answering and message recording device in operation or return the telephone to ordinary use. Unlike attachment-type answering devices, the Teller provides for dual use of the telephone by integrating the handpiece, dial assembly, and ringer of the ordinary telephone with answering components which include only a single motor, two transistor amplifiers, an endless loop of recording tape, three stationary magnetic heads, and three switches. The device is the subject of U.S. Patent 2,928,898, March 15, 1960, issued to SMPTE Member E. R. Salzberg, et al.

The appointment of Alexis Badmaieff to the post of Chief Engineer, acoustics-transducers, has been announced by Altec Lansing Corp., 1515 South Manchester, Anaheim, Calif. He was formerly President of Ultra-Fidelity Labs., Inc. Announcement was also made of the appointment of William H. Johnson to the post of Manager of the Engineering and Technical Information Dept. Two promotions in the Peerless Electrical Products division were announced, that of Erzell



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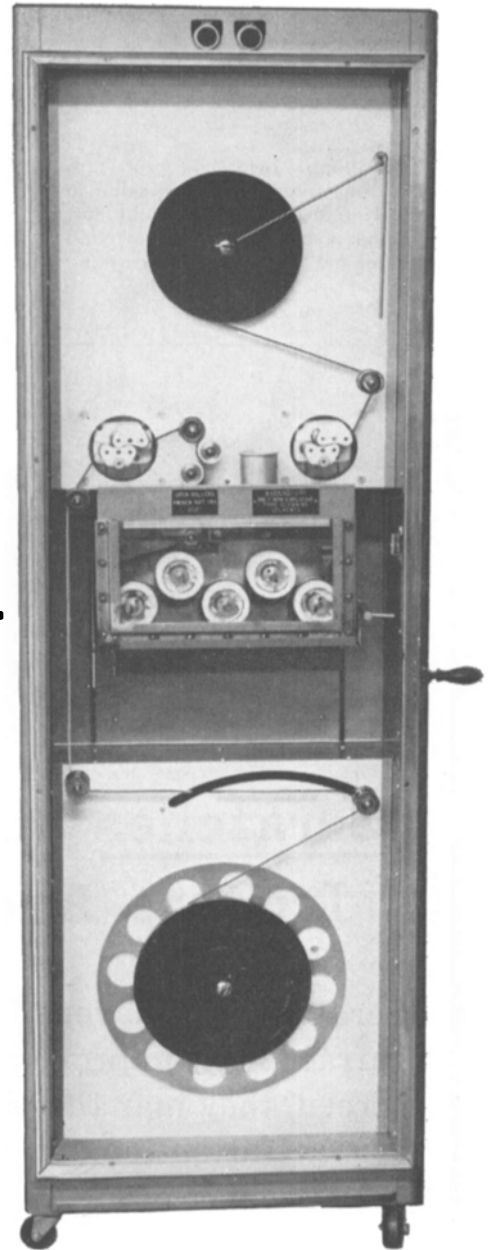
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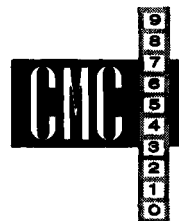
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B. Harrison to General Manager and that of James M. Farrell, formerly Traffic Manager of Altec, to the post of Plant Manager at Peerless.

Walter G. Eggers has been appointed Vice-President of Movielab Color Corp., a Division of Movielab Film Laboratories, Inc. He has been engaged in motion-picture laboratory work for 23 years and has been in charge of black-and-white and color quality control at Movielab since 1954.

Hayes G. Shimp, Inc., has been appointed manufacturer's sales representative for The Tintometer Ltd. of Salisbury, England, manufacturer of The Lovibond Color Scale and visual color measuring

instruments. The firm has also appointed Hayes G. Shimp, Jr., as its technical representative in the United States.

Charles R. Burrows has been named Vice-President and Director of Research and Development for Page Communications Engineers, Inc., a subsidiary of Northrop Corp. Prior to his present appointment he was Vice-President of Engineering for Radiation, Inc., Melbourne, Fla. Earlier, he was Vice-President of Engineering for the Ford Instrument Company Division of the Sperry Rand Corporation. For eleven years he was Professor of Electrical Engineering and Director of the School of Electrical Engineering at Cornell University and for 21 years he was a member of the technical

staff of Bell Telephone Laboratories where he specialized in advanced electronics research. In his present post, Dr. Burrows will be responsible for the technical administration of the firm's space and satellite communication projects, and continuing research in the fields of radio relay systems, navigational techniques and wave propagation.

Adron M. Miller has been appointed Manager of the newly established RCA Film Recording and Television Systems Center at 1560 N. Vine St., Hollywood. He has been with RCA since 1951 when he was field representative for Mobile and Microwave Communications. In 1955 he became Manager of Radio Equipment Field Sales, with headquarters at Camden, N.J., and in 1959 he was appointed Southern Field Sales Manager, Broadcast and Television Equipment. The new Center will supply services to producers in the Los Angeles area ranging from engineering assistance to systems planning.

John J. Kowalak has been elected Vice-President of Movielab Color Corp., a subsidiary of Movielab Film Laboratories, Inc. He joined Movielab in 1957 as Color Consultant in charge of Chemistry and Color Processing. He was formerly associated with Ansco Films.

Lawrence Weiland has been appointed staff assistant to Charles Ginsburg, manager of video engineering for Ampex Professional Products Co., Redwood City, Calif. Prior to this appointment he was manager of advanced planning for engineering for National Broadcasting Co., New York. Further changes are scheduled for June 1, when Mr. Ginsburg will become manager of advanced video development and Mr. Weiland will become manager of video engineering.

New appointments in the Instrument Division have been announced by Beckman & Whitley, Inc., San Carlos, Calif. Robert D. Shoberg has been appointed Manager of Camera Products. Prior to this appointment he was in charge of marketing for Dynafax and Magnifax cameras. George Bingham has been appointed Assistant to Joseph R. Greer, Manager. Frank Provost, who handles field applications engineering for the Eastern area of the United States, with headquarters in Mahopac, N.Y., will report to Bob Shoberg.

Gerhard Lessman has been appointed Director of Advance Development of Bell & Howell. He has been Associate Director of Research for the firm since 1955. He was formerly associated with the DeVry Corp. as Chief Optical Engineer.



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