

The chairman, W. T. Wintringham, announced that the Joint Committee on Inter-Society Coordination, (EIA, NAB, IRE and SMPTE), held a meeting during March to clarify the jurisdiction over several problems recently suggested for standardization. The SMPTE assumed the responsibility for two of the problems, and will set up a subcommittee within the Television Committee to study the subject of control room illumination and standardization of the reproducing characteristics of telecine equipment.

#### Video-Tape Recording

One of the most active engineering committees, the Video-Tape Recording Committee, did not meet at Los Angeles. It did, however, hold meetings in Chicago and New York during April, May and June, and now has scheduled a meeting to be held in New York City during September. The membership of this committee must indeed be commended on the extraordinarily high attendance record achieved at these meetings because they have continually managed to muster an average attendance of over 80%.

Four proposed standards and four recommended practices have now been completed in the video-tape recording field. The four proposals to be submitted to the ASA Sectional Committee C98 are: Video Tape Leader, Characteristics of Audio Records, Tape Speed, and Tape Dimensions. The four Recommended Practices are: Video Modulation Levels, Patch Splices, Signal Specification for Video Alignment Tape, and Tape Vacuum Guide.

Five additional projects are now in draft stage, dealing with tape reels, track dimensions, control-track specifications, pre- and post-emphasis and 7½-in./sec recording speed proposals.

#### Summary

The limited space available here permits only a brief résumé of the activities of our Engineering Committees, and perhaps by summarizing we can visualize the amount of time and effort devoted to this work. At present our eleven committees are concerned with over 110 projects. Of these, the eight committees meeting in Los Angeles completed the engineering work on 37 projects prior to meeting, and an additional 18 projects at the meeting. Twenty-seven projects were reviewed and approved for further processing, and 24 new projects initiated.

The technical activities of the SMPTE Engineering Committees are quite often lost in obscurity once a project is completed, and most certainly a single-page American Standard does not reflect the long hours of scientific work that have been devoted to the subject. However, one of the major contributions of the Society to progress is this organized engineering effort on the part of its Engineering Committees. The men forming these committees have been selected for their individual competence. They come from widely separated industrial locations, ready to give time and effort to progress — progress along that never ending road of scientific knowledge and engineering achievement. The work of these committees is notable for the breadth of view taken.

The basic considerations are good science, good engineering rather than company advantage. Surely these workers have a right to be proud of their work.—*Alex E. Alden*, Staff Engineer.

## Education, Industry News

**The Hollywood Section** will hold a one-day Symposium on the technical aspects of television as a medium for instructional communication on September 22 at the Los Angeles State College, Los Angeles. Plans have been developed by Ralph E. Lovell, Hollywood Section Chairman; John C. Mahon, Jr., Papers Chairman; Howard F. Stucker, Local Arrangements Chairman; and Fred Godfrey, Registration Chairman. Tentative plans for subjects of discussion at the Symposium include a number of vital issues. Among them are respective merits and drawbacks of vidicon and image-orthicon studio cameras; advantages and disadvantages of instructor-controlled and director-controlled production; and a survey of the relative costs of tape and TV film for distribution of programming. While discussion topics have been selected primarily for the enlightenment, by exchange of ideas, of technical personnel, the Symposium is open to all interested persons. Registrants are expected from locations throughout California and neighboring states.

**Five Fellows of the SMPTE and four members** have been elevated to the Grades of Life Fellow and Life Member under provisions set up by the Society following revision of applicable Bylaws to create these grades. First Life Fellow is John I. Crabtree (*Journal*, p. 524, July 1962). Also elevated to the grade of Life Fellow are Don M. Alexander, James R. Cameron, E. H. Hansen and Axel G. Jensen. Newly created Life Members are Edmund McD. Bendheim, Karl M. MacIlvain, M. W. Palmer and Samuel G. Rose.

#### IFPA Awards

**The 1962 National Conference of the Industry Film Producers Association (IFPA)** was held June 14-16 at the University of California, Los Angeles. Climaxing the three-day conference was the annual Awards Banquet and presentation of the Cinema Industry "Cindy" awards to producers of the best industrial films of 1961.

A special event of the evening was the presentation of the Jay E. Gordon Memorial Award to John Flory of Eastman Kodak for the greatest individual contribution during 1961 to the field of business and industrial motion pictures. (The award was established as a memorial to Jay E. Gordon who died March 17, 1960. Mr. Flory is the second recipient of the award. O. H. Coelln, editor and publisher of *Business Screen*, made the presentation to Mr. Flory.) A special award was presented to Major General Arno H. Luehman, Director of Information for the U.S. Air Force, in recognition of his long-time support of industrial film production. Also, a special Cindy award was presented to John R. Moore, President of Autonetics Division, North American Aviation, Inc.

The firm has pioneered in the use of closed-circuit TV for employee motivation and training.

Cindy awards in various categories (firsts) went to (1) *The Aerojet-General Corporation Interior Computer Program*, produced by Aerojet-General Corp.; (2) *The Persuasive Push*, produced by Technical Communications, Inc., for Electro-Optical Systems, Inc.; (3) *Aerospace Medical Research at Holloman* and (4) *Korsa — Battleground of Liberty*, both produced by Air Photographic and Charting Service (MATS) 1352d Photo Group, Lookout Mountain Air Force Station; (5) *Corrosion in Aircraft*, produced by Douglas Aircraft Co.; and (6) *It's a Matter of Business*, produced by Lockheed — Georgia Company.

Finalist awards went to (1) *Photography in the USAF — Optical Instrumentation at Vandenberg Air Force Base* and (2) *Aerospace Force Communications — the Reins of Command*, Air Photographic and Charting Service; (3) *Principles of Reliability*, the Martin Company of Baltimore; (4) *X-15 1960 Annual*, North American Aviation, Inc., Los Angeles Division; (5) *In Your Hands*, produced by United Airlines, Education and Training Dept.; and (6) *Wings for Freedom*, produced by Lockheed Aircraft Corp., California Division.

#### Eight Ideal Theaters

*The Ideal Theater: Eight Concepts*, an exhibition now on tour, shows designs, photographs and stage or architectural models of concepts developed by eight designer-architect teams who were awarded grants by the Ford Foundation Program in Theater Design. The exhibit, shown first in New York in the winter and early spring of 1962, was designed by Peter Larkin, New York theater designer, in cooperation with the firm of Alex-Mauro-Witteborg. Following is a list of the designers and architects and brief notes on the projects:

*Ralph Alswang*, stage designer, and *Paul Rudolph*, architect — development of a theater using new film-projection techniques and live stage action simultaneously.

*Eldon Elder*, stage designer, and *Edward Durell Stone*, architect — design of a 2000-seat outdoor theater with a roof that opens and closes mechanically.

*Barrie Greenbie*, designer, and *Elizabeth Harris*, choreographer — design of an ideal theater for the modern dance, providing a number of mechanically adjustable stage levels.

*David Hays*, stage designer, and *Peter Blake*, architect — design of a small open-stage theater made flexible by simple architectural means.

*George C. Izenour*, designer-engineer, and *Paul Scheikher* — development of a theater complex comprising three theaters, two of which are convertible among proscenium, Elizabethan, and arena-stage forms by an analog and digital computer.

*Frederick J. Kiesler*, designer and architect — design of "The Universal," an urban theater center including a flexible theater adaptable to many uses.

*Jo Mielziner*, stage designer, and *Edward L. Barnes*, architect — design of a theater to house "intimate music-drama" outside the traditional operatic and musical-comedy forms.



*Ben Schlanger*, architect, and *Donald Oenslager*, stage designer — efficiency study of proscenium and non-proscenium theaters and the design of a form-and-space concept which produces the maximum number of desirable positions for viewing and listening in each type of theater.

The common denominator of the exhibit may be seen as a splendid approach to the realities of the late 20th century and an attempt to solve certain specific problems without sweeping aside all tradition as an unwelcome burden.

Mr. Izenour commented on his project as "... an attempt within a school situation to face up to the Twentieth Century from a scientific, artistic and architectural point of view. To design a theater complex that really reflects the times and still not neglect any part of 2500 years of dramatic literature. . . . the mechanistic aspects so often neglected or otherwise rationalized were purposely made the basic elements of the design."

The project worked out by Mr. Schlanger and Mr. Oenslager attempted development of ideal relationships between the individuals in the audience and the actors, dependent upon finding solutions to problems of vision, acoustics and light levels. Mr. Larkin commented, "Give the designer an auditorium that is not a funnel, with a set at the small end and you will have new concepts of scenery. Schlanger attempts to do this. The entire audience is face to face with the stage. The stage (if there is to be a difference in nomenclature) is the full width of the auditorium. Again a search for that oneness which all these new concepts seem to attempt." In explaining the direction of his studies, Mr. Schlanger said, "It was felt that the best theater for non-educational use would have a fixed concept as to the arrangement of the relationship of the audience to the performing area and that changes in this arrangement to fit a specific type of production would, for most plays, weaken rather than strengthen the full potential of the art. The designs for this project are intended for the drama theater ranging in seating potential from approximately 830 to 950 seats."

**The 16th Annual Congress of the International Scientific Film Association** will be held September 23-30, 1962, in Warsaw, Poland, it was announced by the General Secretary of the Scientific Film Association of Great Britain, 55A Welbeck St., London W 1, England. The Congress will feature a Festival of Films Presenting Science with about 250 films scheduled for showing. Films will be grouped in three main categories: Research, illustrating the use of motion picture as tool of research; Education, including films intended for classroom use; and Popularization of Science. The films may be either 35mm or 16mm.

**A one-week Seminar on Scientific and Engineering Uses of High-Speed Photographic Measurements Techniques** was held at the Stroboscopic Light Laboratory of the Massachusetts Institute of Technology, Cambridge, Mass, beginning July 16. Subjects discussed included Stroboscopic lighting, optical high-speed cameras,

Kerr cells, Faraday shutters, image converters and related equipment and techniques. The Seminar was conducted by Prof. Harold E. Edgerton of the Department of Electrical Engineering.

**A Symposium on Photography of Electronic Display** will be held October 12-13 at the Shoreham Hotel, Washington, D.C. General Chairman is Dwin R. Craig, LogEtronics, Inc., 500 E. Monroe Ave., Alexandria, Va. Calvin S. McCamy, Photographic Research Section, National Bureau of Standards, Washington 25, D.C., is Papers Chairman; and Howard J. Hall, Itek Laboratories, 10 Maguire Rd., Lexington 73, Mass., is Exhibits Chairman.

**The Institute of Film Techniques** of City College, New York, offers, for the Fall term, 15 evening session courses in film-making, with registration beginning September 8. Included in the program are four Saturday Workshop production classes for advanced film-makers who produce their own films. Workshop assignments will include all phases of production, including script writing, photography, directing and editing. Classes in photography, screen writing, sound and film editing, directing and production will be offered for the evening sessions. Elementary courses are open to beginners without previous film training while advanced courses are provided for professionals. Classes are open to students without previous college background. Additional information is available from Film Institute, Steiglitz Hall, 133 St. and Convent Ave., New York 31.

**IEEE is the result of a merger** of the American Institute of Electrical Engineers (AIEE) and the Institute of Radio Engineers (IRE), recently approved by both organizations. The resulting new organization to be known as the Institute of Electrical and Electronic Engineers (IEEE) will be the largest professional engineering society in the world with about 160,000 members in more than 80 countries. January 1, 1963, is the date set for completion of the merger. Membership of both the AIEE and the IRE approved the merger by votes (in each organization) of roughly seven to one.

**Appointment of Donald G. Fink** as General Manager of the IEEE has been announced in a joint statement issued by Patrick E. Haggerty, IRE President and Warren H. Chase, Head of the AIEE. Mr. Fink's appointment will become effective upon completion of the merger set for January 1963. At present he is Director of the Philco Scientific Laboratory. Mr. Fink is a Fellow of both the AIEE and the IRE. He is also a Fellow of the SMPTE and in 1956 was recipient of the Journal Award for his paper, "Color Television vs. Color Motion Pictures," published in the June 1955 *Journal of the SMPTE*. The author of several books on electronics, radar and television, his *Television Engineering Handbook* was reviewed in the May 1957 *Journal*. An earlier book, *Television Engineering*, was reviewed in the April 1952 *Journal*.

**Alfred N. Goldsmith**, Past-President and Honorary Member of SMPTE, Past-

President of IRE, Honorary Vice-President of RCA (*Journal*, p. 524, July 1962), and recipient of numerous other awards and honors, was presented with a citation scroll at ceremonies held during the IRE Golden Anniversary Convention in March, in New York. The scroll, presented by IRE President Patrick E. Haggerty, was signed by 49 Past-Presidents of IRE.

Dr. Goldsmith, in commenting upon the presentation described it as "a remarkable example of kindness and . . . exquisite calligraphy."

The citation states, in part, "... Tribute to Alfred Norton Goldsmith who, as Co-founder of the IRE; as Editor of the *Proceedings of the IRE* at its inception and for a period of forty-one years thereafter; as Editor Emeritus; as Anniversary Editor; as President for one year; as Secretary for ten; and as Director of the IRE throughout its full and fruitful fifty-year history has given our profession a monumental and lasting contribution. . . ."

**Newly elected officers of the Inter-Society Color Council** for the 1962-63 term are: President, William J. Kiernan; Vice-President, Ralph E. Pike; Secretary, Ralph M. Evans; Treasurer, Norman Macbeth; and Directors Mrs. Blanche R. Bellamy; Hugh R. Davidson; Dr. Randall M. Hanes; and Richard S. Hunter. The Outgoing President, G. L. Erikson, automatically becomes a Director for two years.

**A paper on "Ultrasonics and the FCC"** by Louis M. Manning, Assistant Chief, Technical Research Division, Federal Communications Commission, presented at a recent meeting of the Ultrasonics Manufacturers Assn., described the government assistance available to manufacturers of ultrasonic equipment to prevent their products from interfering with airline navigation and radio communication. A license is not required for operation of ultrasonic equipment but they must meet RF field strength regulations. The FCC laboratories at Laurel, Md., are equipped to test ultrasonic equipment, Mr. Manning said. A copy of his paper is available upon request from Ultrasonic Manufacturers Assn., 271 North Ave., New Rochelle, N.Y.

**A Symposium on the Physics of Failure in Electronics** will be held September 26-27 at the Illinois Institute of Technology to discuss problems in improving the reliability of electronic parts and devices. The symposium is co-sponsored by the Rome Air Development Center of the U.S. Air Force Systems Command and the Armour Research Foundation of IIT.

**Fifty major systems** were supplied to the Seattle World Fair by Reevesound Co., 35-54 36 St., Long Island City, N.Y., including a battery of seven interlocked projectors used for the *House of Science*, a film shown at the U.S. Science Exhibit. The installation was supervised by William Nafash, Assistant Chief Motion Picture Engineer of Radio City Music Hall, who was assigned to Seattle where his duties included that of installation supervisor for Reevesound at the Federal Science Pavilion.



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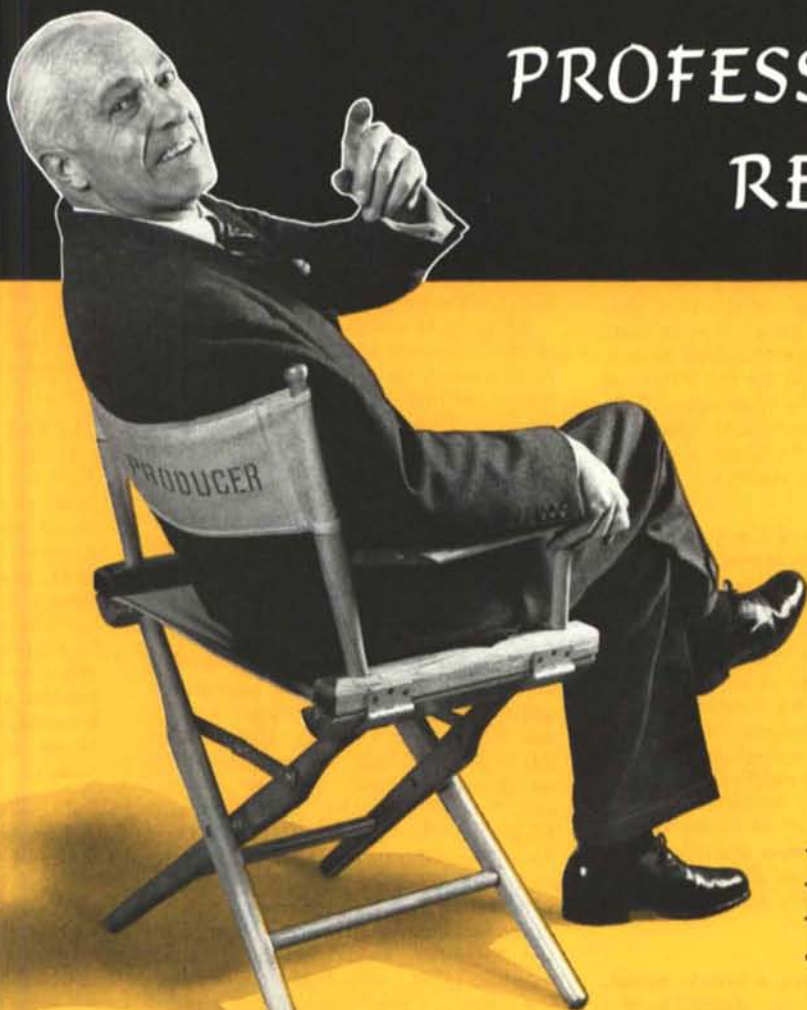
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The seven-projector system was used at the Seattle Fair to project animated cartoons and motion pictures on an unframed wall panel.

**The Organization for Economic Development** (Headquarters, Chateau de la Muette, Paris, France; U.S. office, 1346 Connecticut Ave. NW, Washington 6, D.C.) has announced that it maintains the largest single collection of industrial and agricultural productivity films in the "Western world." A simple dubbing system devised by the OECD film unit makes the films available in the language of the country where they are used for viewing in training programs, conferences, seminars, etc. The OECD Film Service is also interested in films for use in education and training of scientific and technical personnel at both high-school and university levels, the announcement stated.

**City-wide use of a single antenna** for both TV and radio reception will be inaugurated in Tierra Verde, a city planned for a population of 25,000, now being constructed in the Gulf of Mexico off the coast of St. Petersburg, Fla. Zoned for 50% residential and 50% commercial building, one master TV antenna will boost signal and transmit it to each building site by underground coaxial cable for studio reception over the 2000-acre area.

**A film produced by Reid H. Ray Film Industries** has received an award from the National Visual Presentation Association at its Ninth Annual Awards Competition. The film, entitled *Cash on the Barrel Head*, was selected as winner in the employee relations classification. The films "message" is to acquaint employees with the importance and value of the so-called "fringe" benefits. Stars of the film, produced in St. Paul, Minn., are William Bendix, Tom D'Andrea and John Becher. The film was produced for the Bureau of National Affairs, Inc., of Washington, D.C., which supplies information of interest to business, labor and industry, and also received recognition for the film.

**Locked On**, a motion picture produced by Parthenon Pictures, Hollywood, under the supervision of General Dynamics/Astronautics motion picture and television department in accordance with an Air Force contract, was chosen the best occupational safety film of the year by the National Committee for Safety. The film is used by General Dynamics/Astronautics to educate employees and others concerned in the construction of complex missile and space systems to the importance of reliability. The film will be shown at the National Safety Congress and Exposition to be held in Chicago during October. Awards will be officially presented at that time.

**For design of a camera, a bronze medal**, representing one of the highest awards presented annually by the Industrial Designers Institute, has been received by John Peter Ronvik. He designed the Sears Tower Varizoom camera produced for Sears, Roebuck & Co, by Bell & Howell Co.

A certificate of design merit was presented to Clarence Zierhut and Moto Shimano of Zierhut/Vedder/Shimano Associates of Los Angeles for their design of the Technicolor Cartridge-Loaded Movie Projector for Technicolor Corp.

**Unit One Film Productions**, Hollywood, has announced a series of cooperative working agreements with four European producers of industrial films whereby producers of nontheatrical films in America and Europe may exchange services in the administrative and creative phases of production in any country represented in the agreement.

Participating in this exchange program, which was developed by Jens Frandsen, Executive Producer-Director of Unit One, are Svekon Films, Norway; Les Analyses Cinematographiques, France; Es Studios Maciam, Spain; and Danish Film Journal, Denmark. The firm previously had a similar agreement with Scandia Film Production, Denmark, which is being continued.

**Research in acoustics** at Bell Telephone Laboratories, 463 West St., New York has resulted in the development of a system of classification of voices by means of spectrograms called voiceprints. Still in the early experimental stages, it has been suggested that further development may lead to a means of identification approaching the exactness of fingerprints.

The system is based on the use of a spectrograph to make visible patterns of voice energy in the various levels of pitch patterns that are distinctive and identifiable. Voice energy is concentrated into bands of frequencies and the pattern of these bands remains essentially the same even when an individual attempts to disguise his voice.

Although one of the future applications of the voiceprint system may be that of identification, the overall purpose of this type of research is to make possible the construction of a machine that will understand a large variety of spoken words when uttered by many different voices. Acoustic scientists have long been aware of the wide variation in voices and current research is aimed toward taking advantage of this variability by associating unique characteristics with each voice.

**Sometime before the end of 1962 the first flight model of Relay**, a low-altitude active communications satellite, will be delivered to NASA at Cape Canaveral by RCA for launching with a Thor-Delta rocket vehicle. Relay has been designed and built by RCA's Astro-Electronics Division under contract with the Goddard Space Flight Center of NASA. Said to have some design characteristics in common with Telstar, but greater power, Relay is designed to carry out specific experiments and to obtain and report back certain scientific information, based on relatively low-altitude flight. One of the aims of Relay is to enable a TV picture as clear and noise-free as a conventional picture transmitted from ground stations to be sent and received between North America and Europe.

**Telephoning by Telstar and viewing ocean-spanning live TV broadcasts**, while not exactly commonplace, have by now an accepted place among the furnishings of the 20th-century mind. On July 26 Telstar (Bell Telephone/AT&T/NASA) completed its 150th orbit around the Earth. Other than providing transoceanic communication, the satellite was designed to acquire and transmit information in and concerning space, particularly in regard to radiation in the inner part of the Van Allen belt. The twofold aim was to make scientific measurements of radiation in space; and to establish for communications technology the actual effect on semiconductor devices of radiation in space.

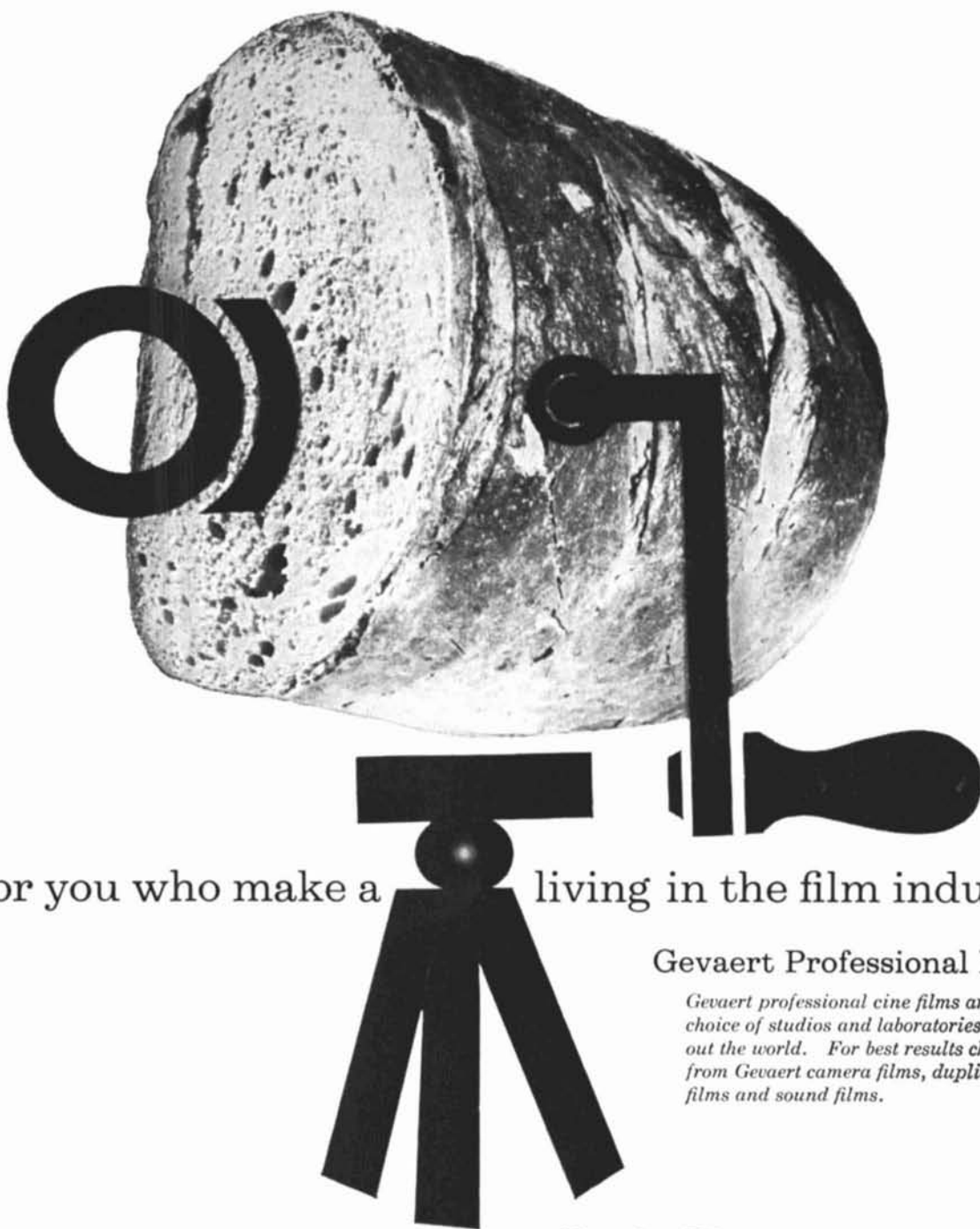
Four silicon diodes, produced in Bell Telephone Laboratories with associated circuitry designed with the assistance of Brookhaven National Laboratories, were incorporated to measure energetic particles in the Van Allen belt. The electrical response of each of the four diodes is in direct proportion to the amount of energy a particle loses in striking or passing through the diode. They are located at the skin of the satellite. Three of them are used to count and measure the energy of protons; the other to count and measure the energy of electrons.

On the day of the launching (July 10) Theatre Network Television, Inc., (TNT) provided a special closed-circuit telecast to five locations where selected groups watched events projected on a large screen by Eidophor.

**The Society of Photographic Scientists and Engineers** will hold a *Symposium on Photography of Electronic Display*, October 12-13 at the Shoreham Hotel, Washington, D.C. Besides the papers program under Calvin McCamy of the National Bureau of Standards, there will be an Equipment Exhibit of which the Chairman is Howard Hall, Itek Laboratories, 10 Maguire Rd., Lexington 73, Mass.

**The Biological Photographic Association** held its 3d Midwest Sectional Meeting April 6-8 in Des Moines, Iowa. Highlights of the meeting included presentation of an award for excellence for *A Case of North American Blastomycosis* to David S. Ruhe, M.D., of the University of Kansas Medical Center, and also an important symposium on "Motion-Picture Animation" conducted by Gordon Ray, St. Paul, Minn., and Alan Hilliard, Chicago. The Association was founded at Yale University in 1931 and its interests are in the areas of skills and techniques of medical and scientific photography.

**A Film Festival** devoted to 16mm films on agricultural subjects will be held in November 1962 (exact date to be announced later) in Washington, D.C., as part of the Centennial of the U.S. Department of Agriculture, 100 years old on May 15, 1962. The films will be shown competitively following a pre-screening by juries specially qualified to evaluate films in a particular category. Films that pass the pre-screening and are shown at the Festival will receive Certificates of Merit each accompanied by a letter from the Secretary of Agriculture. Films



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chosen as outstanding by the juries will receive special recognition bestowed by the Department of Agriculture. There are 12 categories of general subjects eligible for entry: Farming, Crops, Animals, Engineering, Food, Gardening, Home, Pests, Resources, Science, Recreation, and Wildlife. Prospective exhibitors must return forms before July 15, 1962. Forms and also detailed information about the Festival may be obtained from Centennial Film Festival Committee, U.S. Department of Agriculture, Washington 25, D.C.

**The Eidophor projector** has been employed in daily classroom instruction at the Pennsylvania State University for 18 months, and during that time there has been no cancellation of any program because of equipment failure. This information was given by Nathan L. Halpern, President of Theatre Network Television, Inc. (TNT) during a speech before the New York State Counselors Association on March 30. Mr. Halpern also mentioned other areas where the educational use of large-screen television is increasing. Ten medical programs are presently in production via Eidaphor for the Ciba Pharmaceutical Co., which intends to broadcast them to doctors in eight states.

Other news on Eidophor, announced by Eugene D. Warren, Director of Engineering, TNT, reveals that the Eidophor provided rear-screen visuals on more than 20 network TV programs during March as well as being used regularly for 13 regular weekly broadcasts over CBS-TV and six over NBC-TV. It is also used for specials over ABC-TV. Its primary use is for news and public affairs broadcasts.

**Two Ampex VR-1002 Videotape Recorders** and two Marconi Mark IV TV cameras have been purchased by Vicoa, Inc., a Chicago TV production company. The firm presently owns and operates two VR-1000C Videotape Recorders and also owns an Ampex Videocruiser.

**Chet Huntley**, who appears regularly on the Huntley-Brinkley Report and various NBC public affairs programs, has announced formation of a new television and motion-picture production company expected to begin operation in June. The new firm, named Chet Huntley Enterprises, Inc., will be located on a property of 155 acres near Stockton, N.J. The studio will include a sound stage, preview theater, editing and sound recording facilities and a mobile unit for making films on location.

**Maurice B. Mitchell**, former President of Encyclopedia Britannica Films, has been elected President of Encyclopedia Britannica, Inc., according to a recent announcement. Mr. Mitchell, who is one of the leading authorities on new techniques in education, presented testimony before House and Senate Committees during hearings on the 1958 Education Bill (National Defense Education Act), stressing the importance of audio-visual equipments and techniques to modern education. He was keynote speaker at the Society's 84th Convention on the Convention theme of *Films and Television in Industry and Education*.

**Sylvia Jarvis** has been appointed Eastern Sales Manager of Motion Picture Enterprises, Inc., Tarrytown 83, N.Y. Her headquarters will be in New York. Miss Jarvis has been active in the distribution of motion-picture equipment and supplies for about 15 years. In her new post she will be in charge of distribution of the firm's professional film reels, cans and fiber cases.

**Appointment of sales representatives for instrumentation recording cameras**, the Fonda line of continuous film processors, and the Nega-Viewer photoelectronic viewer has been announced by Photographic Instrumentation Development Co., Tarzana, Calif. In the Pacific Northwest area the representative is Hawthorne Electronics, of Seattle. Computing Devices of Ottawa is representative for all of Canada. Interlab, of Bronxville, N.Y., is representative in the Northeastern States. In the Central Southwestern States the representative is Forsythe Sales Co. Representative for the Southeastern States is Physimetrics, of Atlanta, Ga. Glenwood Associates, of Redwood, Calif., has been appointed representative for the San Francisco area. Announcement of a representative in the Chicago-Midwestern States is expected later.

**Consultation services on special effects** and title production are offered by Cinema Research Corp., 716 N. La Brea Ave., Hollywood 38, without charge to producers of industrial films, TV Commercials and documentaries. The service includes conferences with producers, assistance in planning and advice on equipment. An editing room, equipped with Moviola products, is available to producers and a film vault provides storage space.

**B. D. Loughlin** has been elected Vice-President of Research of Hazeltine Research, Inc., a subsidiary of Hazeltine Corp. of Little Neck, N.Y. Widely known as a pioneer in color TV, Mr. Loughlin was awarded the David Sarnoff Gold Medal by the SMPTE in 1955 for "contributions to the science of color television, notably in the optimum method of transmitting a compatible color picture and in his 'fundamental of constant luminance.'" He is also recipient of the Vladimir K. Zworykin Television Prize presented by the IRE and numerous other honors. In his new post he will continue to direct research on the simplification of color TV receivers with emphasis on three-gun tube receivers. Other projects include improved circuitry for monochrome and color television in both VHF and UHF bands.

**William Kosh** has been appointed Supervising Editor of Wyld Films, Inc., 155 E. 24 St., New York 10. Prior to his present appointment he was Editorial Supervisor of TV Graphics.

**In a reorganized Sales Department**, **Clyde L. Krebs** is the Vice-President of National Sales for Reid H. Ray Film Industries, Inc., as recently announced by Reid H. Ray, President. Mr. Krebs was formerly Midwest Sales Manager with

headquarters in Chicago from which he will now direct the sales activities of the Reid Ray organization in Washington, Chicago and the Twin Cities. Mr. Ray also has announced the retirement of Raymond V. Jeffrey who has been in various capacities with the firm for the past 15 years.

**James A. Anderson** has been appointed Technical Director of Byron Motion Pictures, Inc., Washington, D.C., 16mm film laboratory. He will be responsible for quality control and technical operations in both color and black-and-white. For the past 34 years he has been associated with Alexander Film Co., serving as Vice-President from 1957 until his resignation in 1962.

**Robert W. Bullock** has been appointed Assistant to the Vice-President of TV Sales and Engineering of Kliegl Bros. of New York. Mr. Bullock has formerly been Lighting Facilities Engineer in the audio-video engineering group of NBC and Lighting Director for various network productions.

**Ernest M. Whitley**, Secretary and Director of Red Lake Laboratories, 564 San Xavier, Sunnyvale, Calif., has been appointed Director of Engineering, it was recently announced by Robert D. Shoberg, President of the firm which specializes in photoinstrumentation. Mr. Whitley is well known in that field, and in 1948 he was co-founder of Beckman & Whitley, Inc. More recently he has been chief mechanical engineer at the Shockley Transistor Unit of Clevite Transistor Corp., and Manager of Engineering in the Spinco Division of Beckman Instruments, Inc.

**Walter Jenevein** has been appointed Production Manager of Raphael G. Wolff Studios, Inc., of Hollywood. The appointment is part of a general expansion program of the firm, it was announced by William S. Gerrie, President. Mr. Jenevein was formerly with General Dynamics, Convair, San Diego, in the Motion Picture Section.

**Arthur Cox** has been appointed Vice-President of the Photo Products Division — Optical, and **Newton Heimbach** has been appointed Vice-President of the Business Machines Division and General Manager of the Rochester Film Plant of Bell & Howell Co., it was announced by Board Chairman Charles H. Percy. In this post Mr. Cox, who has been with Bell & Howell since 1952, will be responsible for all photo-optics operations in his division and for providing design and counseling services for other optical activities of the company's operations. Mr. Heimbach has been with the firm since 1949 when he began as Manager of Chemical Operations.

**Merrill A. Trainer** has been appointed to the newly created position of Manager, International Operations Liaison, Broadcast and Communications Products Div., Radio Corp. of America. Activities include coordination of sales activity in world-wide

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markets for products including radio and TV broadcast equipment, closed-circuit, microwave relay systems, TV tape and film recorders, scientific instruments, and electronic inspection and control systems for industry. Mr. Trainer, who has been with RCA since 1930, will work in conjunction with the RCA International Division. Prior to his present appointment he was Manager of the Electronic Recording Products Dept. His responsibilities in this department have been assumed by A. F. Inglis, Manager of the Closed-Circuit Television, Scientific Instruments and Recording Products Dept.

Reuben S. Siegel has been made Manager of New Products Development with Eastern

Photo Chemicals, Inc., Clifton, N.J., manufacturers of photographic chemicals. Mr. Siegel was formerly employed as Research Engineer in the Advanced Development Engineering Dept. of Mergenthaler Linotype Co., Brooklyn, N.Y.

Conversion to spray processing for all 16mm and 35mm film, including positive, negative, reversal, and optical soundtrack, has been announced by Byron Motion Pictures of Washington, D.C. The conversion was made to assure better quality black-and-white film, according to the announcement which stated that this is the first commercial film laboratory in the United States to make this changeover.

William Greenwald, formerly of Tele-Prompter Corp., Staging Facilities, has accepted the post of Manager of the newly established Production Services Division of Pictronics Corp., 236 E. 46 St., New York. The new department will handle the sale, rental or lease of various types of professional motion-picture and TV equipments.

Merger of the Delaware firm of Ditto, Inc. with Bell & Howell, Chicago, became effective June 1, following filing of articles of merger with the respective Secretaries of State of Delaware and Illinois. A tax-free exchange of shares was made possible by a favorable ruling by the Internal Revenue Service. Announcement was made by Charles H. Percy, Chairman of the Board of Bell & Howell.

A kit for use in classrooms for teaching basic electronic measurements has been designed by Radio Corp. of America. Called the RCA-95-A volt-ohm-milliammeter dynamic demonstrator, the kit contains a pre-assembled meter 3 1/4 by 5 in., necessary components, assembly instructions, and a separate instruction booklet detailing each circuit's function and operation. Once assembled the unit can be used to test and service television sets, radios, hi-fi and stereo equipments.

D. B. Milliken Co., Arcadia, Calif., has announced the opening of a field engineering office in Orlando, Fla. Established for the purpose of providing closer customer liaison for its line of 16mm photo-instrumentation cameras, the new office will service the Southeastern United States as far north as Langley Field, Va. Head of the new office is Charles G. Holzapfel, a Milliken field engineer and former instructor of photography at the Pensacola Naval Air Station.

Photo Instrumentation Corp. (PIC), 630 Ninth Ave., New York 36, is a newly organized division of Orbit Productions, Inc. (OPI) specializing in the rental, sale and servicing of high-speed and photo-instrumentation equipment. Barry Green, formerly associated with Camera Equipment Corp., Reeves Equipment Corp., and Technicolor Corp., has been appointed Vice-President and General Manager of the new division.

Westinghouse Electric Corp. has been licensed by TelePrompter Corp. to manufacture and market tape recording equipment, developed by TelePrompter for the home instrument field. The tape transport utilizes a simplified mechanism permitting reduction in tape tensions to facilitate use of a thinner and less expensive tape.

Gordon Enterprises of North Hollywood and Behrend Cine Corp. of Chicago have been named exclusive Western and Midwestern distributors, respectively, of Acmade editing equipment, manufactured in England for Florman & Babb, Inc., 68 W. 45 St., New York 36. Acmade Mark II Editing Tables, hot splicers, both foot-operated and table models and the Acmade Automatic Tape Splicer are among the available equipments.



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608

August 1962 Journal of the SMPTE Volume 71