

## Progress Report Volunteers

The Progress Report Committee is in urgent need of volunteers to contribute information on various areas of the expanding industries. Three subjects in particular should be covered:

- (1) New microphones and techniques;
- (2) New lighting techniques; and
- (3) Transistor equipment for TV and motion-picture use.

Also, expression of opinion is invited as to other subjects that might be reported upon in future Progress Reports. Anyone who will volunteer to become a member of this important Committee, or who wishes to suggest additional subjects for the Report, is requested to write to the Committee's Chairman, Lloyd Thompson, The Calvin Co., 1105 Truman Rd., Kansas City 6, Mo.

## SPIE Meeting

The Third Annual Exhiborama and National Symposium of the Society of Photographic Instrumentation Engineers was held in Los Angeles, July 29-Aug. 1. The program included four classified sessions of which two were confidential and two

were secret. The final session, which was classified as secret, included a field trip to the Naval Air Missile Test Center, Point Mugu, Calif., with a tour of the instrumentation and range facilities.

An especially interesting Panel Forum was conducted the afternoon of July 30. Although it was described by the, perhaps misleading, title of "Nonsense-Itometry" it developed into a serious and enlightened discussion of the retrieval and enhancement of the photo image by techniques employing effects associated with the nonlinear regions of the H&D curves. It was recognized that there is a lack of established data on these phenomena, particularly at low exposure levels and intensified development where the behavior of the film is not well defined. Moderator of the Panel was Carlos Elmer, Traid Corp. Panel members were: Norwood Simmons, Eastman Kodak; Hollis Moyses, du Pont; Ed Dowell, Gaevert; and Robert Harbison, Ilford.

Unclassified sessions were recorded and duplicate tapes ordered in writing at the time of the meeting are the means by which SPIE publishes its proceedings. Further information is available from SPIE Secretary, Stanley E. Baker, 8321 Keokuk Ave., Canoga Park, Calif.



**R. Edward Warn, Vice-President and General Manager of Westrex**

**Completed purchase of Westrex Corp.** from Western Electric Co. by Litton Industries Inc., 336 N. Foothill Rd., Beverly Hills, Calif., has been announced. Preliminary negotiations were made last spring (*Journal*, May 1958, p. 350). At that time it was announced that the purchase would be completed after agreement had been reached on such matters as patent license arrangements and continuation of the Westrex Employee Benefit Plan.

Under terms of the final agreement Westrex has become the outlet for a line of tropospheric and ionospheric scatter relay equipment for over-the-horizon communication and a new line of communication power wire and cable. Other Litton communication equipment will be distributed through Westrex's 19 foreign offices.

Members of the Westrex Board are: R. Edward Warn, Harry Allinsmith and Roland Colistra, from the Westrex organization; Charles B. Thornton, President and Chairman of Litton, and Roy L. Ash, Glen McDaniel and Fred Sullivan, Litton Vice-Presidents. Mr. McDaniel is now President of Westrex and Mr. Warn is Vice-President and General Manager. Frank A. Ungro, who was Executive Vice-President of Westrex under Western Electric ownership, has been named Assistant Treasurer.

The sale was approved by the U.S. District Court of New Jersey in accordance with the findings of the court in the case of U.S. vs. American Telephone and Telegraph Co. and Western Electric, Jan. 24, 1956.

Westrex employs more than 1200 persons, 1000 of them overseas; an assembly plant is maintained in England. The firm's gross income for 1957 was \$13,000,000.

**The Artiscope animation process** will be used by the East Coast Studios of Westworld Artists Productions Inc., 41 W. 57 St., New York, for cartoon series and feature length cartoon films. The process makes use of specially photographed and processed film which is converted into line images.

## Education, Industry News

A course in *Magnetic Video-Tape Recording of Television* (806ABC) is being conducted by the Engineering Extension of the Univ. of Calif., Los Angeles 24, in cooperation with SMPTE. The series of 18 weekly lectures began Sept. 24 and will continue through Feb. 4, 1959. Instructors are: John T. Allen, Supervisor of Television Recording, ABC, Hollywood; Charles Anderson, Development Engineer, Ampex Corp. Redwood City, Calif.; Fred Gayton, Video-Tape Maintenance Eng., CBS Television City; Wayne Johnson, Mincom Div., Minnesota Mining and Mfg. Co., Los Angeles; William McDaniel, Branch Manager, RCA Service Co., Burbank, Calif.; Russ Nies, Video-Tape Eng., NBC, Burbank, Calif.; William Powell, Training Administrator, Western Region, RCA Service Co.; William Stanton, Instructor in Electronics, Orange Coast College, Costa Mesa, Calif.; Martin Thibeau, Video-Tape Maintenance Eng., ABC, Hollywood; Robert A. Von Behren, Manager of Research and Development, Magnetic Products Div., Minnesota Mining and Manufacturing Co., St. Paul, Minn.

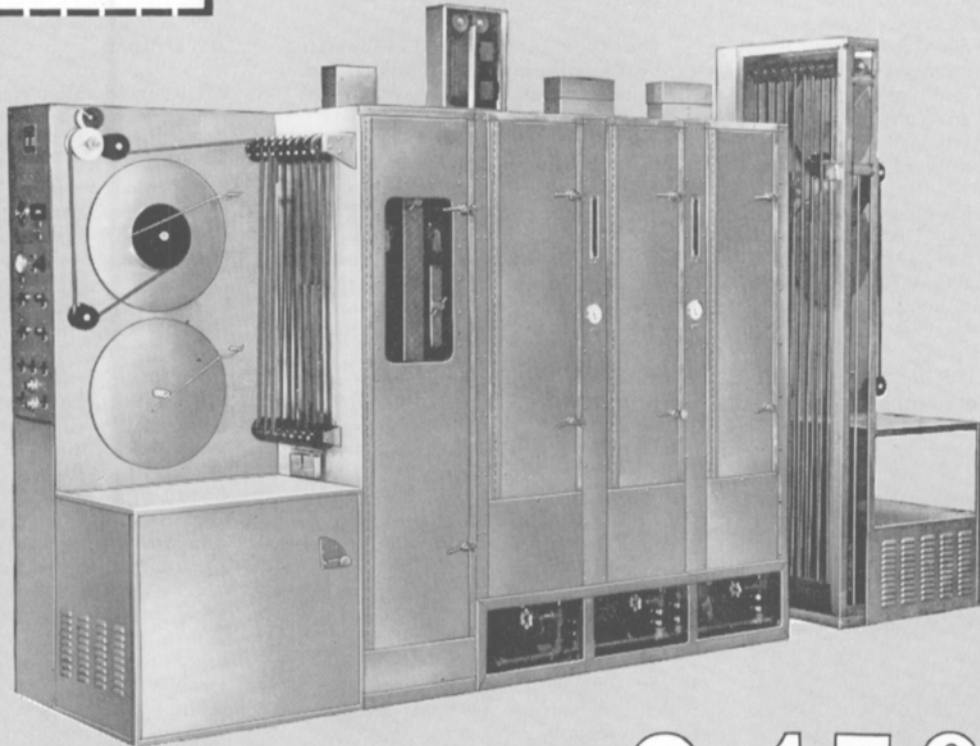
Titles of the lectures and dates are: Review of Fundamental Electrical Circuit Concepts, Sept 24; Review of Magnetic Recording Theory, Oct. 1; Modulation and

Demodulation Principles, Oct. 8; Monochrome Television Signal Formation, Oct. 15; Color Television Signal Formation, Oct. 22; Magnetic Recording Systems Requiring High Tape Speed, Oct. 29; Introduction of the Ampex System of Video-Tape Recording, Nov. 5; Modulation and Demodulation in Video-Tape Recording, Nov. 12; Rotary Head Switching Techniques, Nov. 19; Servo Control Systems Employed in the Ampex VR-1000 Videotape Recorder, Nov. 26; Audio System Employed in the Ampex VR-1000 Videotape Recorder, Dec. 3; Electronic Conversion to Color Recording with the Ampex VR-1000 Videotape Recorder, Dec. 10; General Description of the RCA TRT-1AC Video-Tape Recorder, Dec. 17; Modulation and Demodulation Techniques Utilized in the RCA TRT-1AC Video-Tape Recorder, Jan. 7, 1959; Color Processing Techniques in the RCA TRT-1AC Video-Tape Recorder, Jan. 14; Field Trip to NBC Burbank Video-Tape Plant, Jan. 21; Parameters of the Video-Tape Medium Affecting Picture and Sound Quality, Jan. 28; Editing Techniques and Commercial Applications of Video-Tape Recording, Feb. 4.

Course Coordinator is Ralph E. Lovell, Assistant Video-Tape Supervisor, National Broadcasting Co., Burbank, Calif.

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TO CONTINUOUSLY DEVELOP 16/35mm NEG/POS. UP TO  
9,000 FT. PER HOUR!**



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31" L, 22" W, 87" H  
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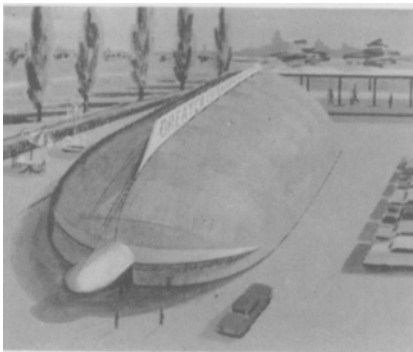
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**Filmline**

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**Axel G. Jensen**, SMPTE Engineering Vice-President, has been made a Knight of the Order of Dannebrog by King Frederick IX of Denmark, in recognition of his work as a scientist and as an expression of appreciation for his assistance to Danish scientists and engineers who have visited the United States. For more than five centuries the Order of Dannebrog has represented the highest civilian honor that can be bestowed by the King of Denmark. Dr. Jensen, who is Director of Visual and Acoustics Research, Bell Telephone Laboratories, Murray Hill, N.J., was born in Copenhagen, Denmark, and was graduated from the Royal Technical College of Copenhagen with a degree in electrical engineering. He came to the United States in 1921 for post-graduate work at Columbia University. In 1922 he joined the Engineering Dept. of Western Electric Co., which later was incorporated as Bell Telephone Laboratories. Honors bestowed in recognition of his scientific achievements include the SMPTE David Sarnoff Award and the G. A. Hagemann Award for Industrial Research granted by the Royal College of Copenhagen.



A portable auditorium designed by Wilding Picture Productions, Inc., 1345 Argyle St., Chicago, consists of a framework of aluminum ribs or arches covered with canvas. The arches of the structure, called the Portatorium, swing upward and meet in the middle to form a weather-tight shelter for roadshows and other exhibitions. It is custom-made to various specifications. The model illustrated is 180 ft long, 22 ft high and 50 ft wide with a seating capacity of 1000. The price is about \$20,000. For heating or air conditioning, a smaller structure fits inside the larger one to provide dead air space for insulation. The structure includes a generator and lighting fixtures and is designed so that it can be transported on a trailer truck with a second truck for hauling heating or air-conditioning equipment.

The 12 best films of all time as selected by a jury of 117 film historians under the auspices of the Belgian Film Library for showing at the Brussels Exposition are listed below, together with the name of the director, country and year of release: *Potemkin*, S. M. Eisenstein, USSR, 1925; *The Gold Rush*, Charles Chaplin, U.S., 1925; *The Bicycle Thief*, Vittorio De Sica, Italy, 1948; *The Passion of Joan of Arc*, Carl Dreyer, France, 1928; *Grand Illusion*, Jean Renoir, France, 1937; *Greed*, Erich von Stroheim, U.S., 1923; *Intolerance*, D. W. Griffith, U.S., 1916; *Mother*, Vsevolod Pudovkin, U.S.S.R., 1926; *Citizen Kane*, Orson Welles, U.S., 1941; *Earth*, Alexander Dovshenko,

U.S.S.R., 1930; *The Last Laugh*, F. W. Murnau, Germany, 1924; *The Cabinet of Dr. Caligari*, R. Wein, Germany, 1919. The 12 best directors, chosen by the same jury, are: Chaplin, Eisenstein, René Clair, De Sica, Griffith, John Ford, Renoir, Dreyer, von Stroheim, Pudovkin, Murnau and Robert Flaherty. It will be noted that three of the "best" directors did not make the "Best Film" list.

At the 10th International Cinematography Engineering Congress held earlier this month in Turin, Italy, the SMPTE was officially represented by Joseph A. Tanney, President of S.O.S. Cinema Supply Corp., New York. Greetings from SMPTE President Barton Kreuzer were transmitted by Mr. Tanney to the Chairman of the Congress, Dr. Ing A. Daniele Derossi. A selection of published material illustrative of the Society's activities was exhibited to Congress visitors under Mr. Tanney's supervision.

A number of film courses, both undergraduate and graduate, are offered by the Department of Radio, Television and Film, School of Speech, Northwestern University, Evanston, Ill. The School of Speech also offers a noncredit lecture series, which began Oct. 1, and includes the showing of 37 contemporary films. The lectures are grouped in four main categories showing the uses of film as entertainment, communication, education, and art. Thirteen courses are offered for credit. A course in Film Production offered during the 1958-1959 Winter session is a laboratory-lecture course which concentrates on film editing and sound recording.

The National Camera Report School, Box 174A1, Englewood, Colo., has been accredited by the National Home Study Council. The Council was organized in 1926 to set standards for home study schools. It has recently developed an accrediting program for home study schools which have been in existence for a minimum of five years and which meet certain standards.

Francis G. Semere has joined Thompson-Ramo-Wooldridge Products Co., 5500 W. El Segundo Blvd., Los Angeles 45, in the capacity of sales engineer. He was previously associated with Ramo-Wooldridge Corp. as industrial engineer. He has been active in the fields of electronic production, electronic research and development and automotive production.

Vin Agar has been appointed Western Division Manager of Natural Lighting Corp., 612 West Elk Ave., Glendale, Calif. During his 25 years of experience in photography and graphic arts, he has held the position of Vice-President of Sales of Watland Inc., Chicago, and has been in charge of reproduction and photographic services at Argonne National Laboratories. During World War II he acted as Medical Photographic Officer at the Armed Forces Institute of Pathology, Washington, D.C. Prior to his present appointment he was Head of the Graphic Arts Dept., Univ. of Calif., Berkeley, where he was in charge of all reproduction, still and motion-picture photography of the California Radiation Laboratory in Livermore.

A separate television service to supply overseas TV stations has been created within the U.S. Information Agency. Supplying documentary films, special events coverage, and features which depict various aspects of American life, this service will supplement American commercial TV activities. The USIA has noted that there are 560 TV stations overseas, 458 of them outside the Iron Curtain, and more than 20 million TV sets outside the United States and Canada.

Civil Service jobs are now open for motion-picture producer-director, script writer and editor, and film editor at salaries ranging from \$4,980 to \$9,890 a year. Most of the openings are in the Dept. of Agriculture and Dept. of the Navy in the Washington, D.C., area. A few positions may be filled in foreign countries. Detailed information is contained in USCSC Announcement No. 157B, available at most post offices or from the U.S. Civil Service Commission, Washington 25, D.C.

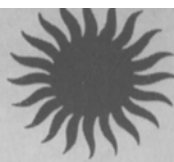
"It smells," long a term of disapproval, if not outright approbrium, may soon be used in an entirely different "scent" to describe the vital denouement (living end!) in motion-pictures. Rhodia Inc., the U.S. affiliate of Rhone-Poulenc, a French chemical company, is cooperating with an organization called Weiss Screen Scent Corp. which, it is reported, will package a series of odors for installation in air conditioning systems in motion-picture theaters. The scent (odor) will be released according to a pre-arranged schedule to coincide with appropriate scenes being shown on the screen. The aim is to heighten audience identification by creating a mood. For example, Chanel No. 5 might be used for "high-society"-type romances and perhaps a lovely combination of tar and bilge-water for *On the Waterfront* type dramas.

The 25th Anniversary of the founding of Reeves Sound Studios, 304 E. 44 St., by its President, Hazard E. Reeves, was celebrated Oct. 3. The organization, originally located on Broadway, moved to its present location in 1947 and is now reported the largest sound service studio in the world. Several processes and corporations have derived from the firm's activities, including Reeves Soundcraft Corp. and Cinerama Inc. Mr. Reeves is also President of these corporations.

Marvin Schulman has been appointed Engineer in Charge of Maintenance and Remote Facilities for Television Station KCOP, Hollywood. He was formerly head of the Engineering Dept. of XETV, San Diego, Calif. and of KSHO, Las Vegas, Nev.

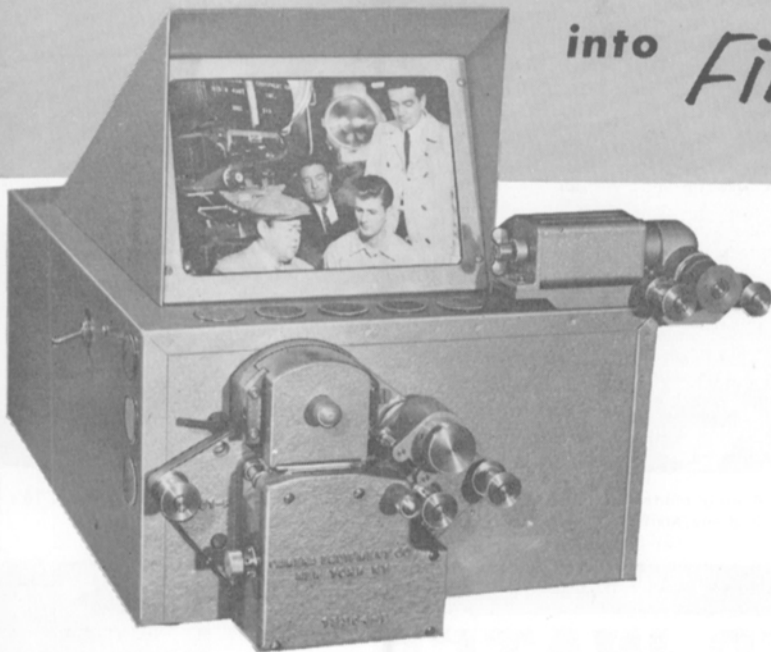
A series of 16mm color films called Navy Research and Development Film Reports, covering such subjects as new aircraft, missiles, submarines, ships and Marine Corps weapons, and other projects, is issued by the Navy Department chiefly for briefing purposes. Newsreel format is used in order to show individual projects at various stages of development. Additional information may be obtained from the Office of Naval Research, Code 109, Washington 25, D.C.

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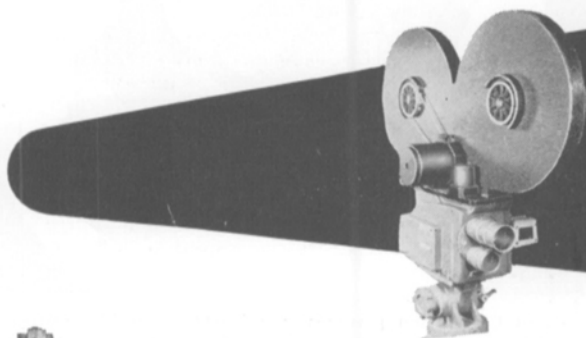
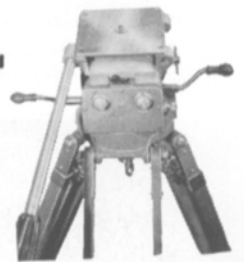
But you need more than cameras, tripods, dollies and recorders—you need more than lenses, viewers, blimps, generators and lights.

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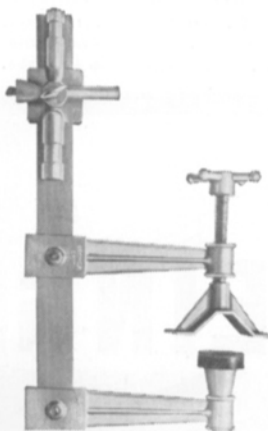
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Features "controlled action" with slow and fast speeds for both panning and tilting. Weighs only 19 lbs. Ideal for 16mm Maurer, Mitchell, B & H Eyemo and similar cameras. **\$650.00**



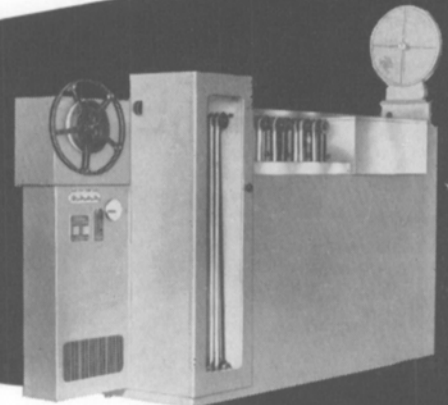
**Auricon Cine—Voice Conversion**

Cine—Voice Camera modified to accept 1200-ft, 600-ft, and 400-ft. magazines; has torque motor for take-up. Also includes Veeder footage counter and 3-lens turret. Conversion only—\$450.00 less magazine.



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Holds a light wherever space is tight. No springs, no slip. Has 8" spread. Both ends padded against marring. Weighs less than 2 lbs. **\$6.85**

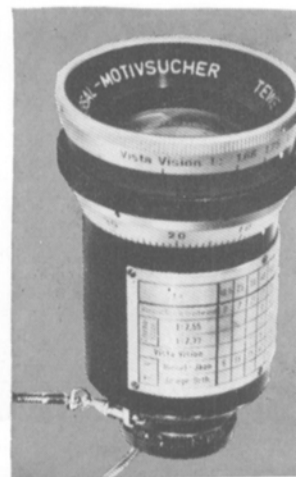


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# ON LAND...

Supervisor, Engineering Motion Picture Group, center foreground, directs Boeing motion picture crew as they photograph scene of Boeing test pilots inspecting the

Boeing Model 707 Commercial Jet Transport for its first flight. Two Arriflex 16's and one Arriflex 35 are used.

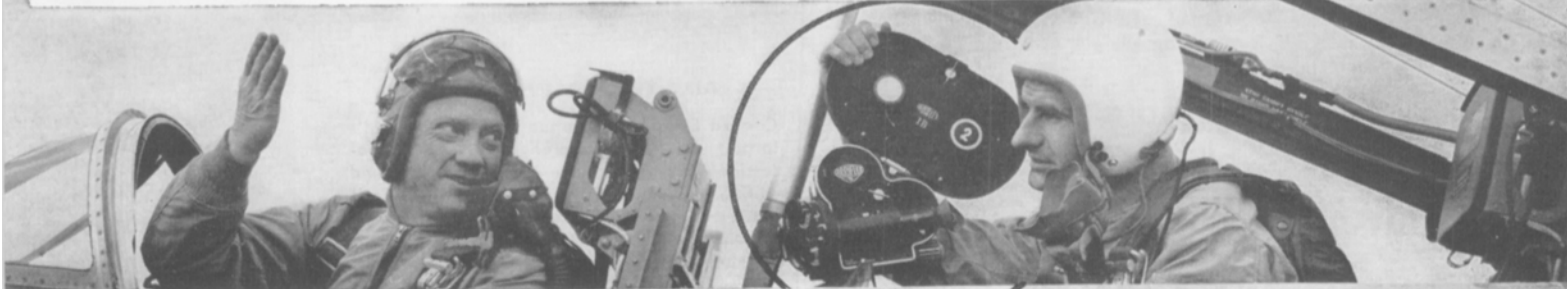


# UNDER WATER...

Boeing Motion Picture Unit Cameraman prepares to submerge with his underwater blimp into hydrostatic tank containing entire fuselage of Boeing KC-135 Jet Tanker. Photo in circle shows 16mm Arriflex camera mounted on platform of underwater case, especially designed and constructed at Boeing, to photograph the submerged fuselage.

# AND IN THE AIR...

# ARRIFLEX SERVES BOEING



T-33 pilot explains maneuver to Boeing cameraman before take-off.

WAHNING

HANDY JETTISON CONTR