are viewed on the screen through eyeglasses differentially polarized. The glasses, called "Polalite" were developed by Marks Polarized Corp. of Whitestone, N.Y., for use with Spectravision. The three-dimensional effect is achieved by enlarging the aperture plate in the focal plane of the projector to permit simultaneous projection of two consecutive frames. Without additional apparatus, the two frames would be projected by a single lens to form two images, one above the other, on the screen. At a position several focal lengths in front of the projector a means for polarizing and bending the light paths is inserted between the lens and screen. The optical path of the projected image can be bent back toward the optical axis of the projector by using prisms or mirrors. Horizontal separation of the two images at the screen of about half the distance between eyes allows the eyes of the viewer to converge beyond the screen. As a result, the screen appears as a window through which the projected image is seen in the distance. By reversing the separation, the image can be made to appear in front of the screen.

A technique called holographic interferometry which is used in fracture mechanics has been developed at Bell Telephone Laboratories. The new technique involves making a hologram of the surface of a metal sample before placing the sample under strain. The developed hologram is then positioned and illuminated so that the reconstructed image is viewed as exactly superimposed on the surface of the metal sample. When the sample is loaded, deformations of the surface become readily visible as interference fringe patterns. These fringe patterns show deformation contours at successive elevation differences of half a wavelength (12-millionths of a inch) of the illuminating laser light. Each fringe represents the position of points where the reflected light from the original surface of the sample, as pictured by the hologram, is a half wavelength out of step with light reflected from the now deformed surface. No alteration of the test sample is required and new holograms can be made and substituted at any point during the test. Strain contours are made visible as interference fringe patterns, light and dark areas. The usual direction of loading in such studies can be reversed since the hologram can be taken at the point of maximum load strain and the surface studied as the load is progressively removed.

Charles P. Spoelhof has been appointed Assistant to the Director of Research and Engineering, Kodak Apparatus Div., Rochester, N.Y. He has been with Eastman Kodak since 1954. He was formerly Program Manager of the Photo Science Organization in Research and Engineering.

Arthur J. Miller has been appointed Director of Print Quality Control for Inflight Motion Pictures, Inc. Mr. Miller's objective at Inflight, he said, "is to standardize the quality of all 16mm prints received from the major motion-picture studios and film laboratories. Exceptionally high-quality prints have become necessary because of the technical achievements made by Inflight in its 16mm motion-picture projection equipment." Mr. Miller's previous experience includes work on the Waller Gunnery Trainer, the forerunner of Cinerama. He also conceived and developed the Trucolor process and worked with the American Optical Co. on the Todd-AO process as consultant on optical printing problems. He also collaborated on the design of the Hazeltine Color Film Analyzer.

Bayard F. Walker has joined Dalmo Victor, a Textron division, as Section Manager of Television Research. The firm, located in Belmont, Calif., produces aerospace antennas, automatic test equipment, electronic warfare systems and electrooptics. Mr. Walker was formerly Engineering Manager, Electronics Dept., Diecraft Div. of Bausch & Lomb. In his new post he will be responsible for directing all research and development projects in low-light-level television and associated systems.

Brian John Thompson, an optical scientist and specialist in diffraction phenomena, holography and image processing has been appointed Director of the University of Rochester Institute of Optics and Professor of Optics. He succeeds Prof. W. Lewis Hyde who was appointed Provost of New York University's University Heights Center. Prof. Thompson was formerly General Manager of the West Coast Branch of Technical Operations, Inc., and Technical Director of Beckman & Whitley Division of Technical Operations.

John F. Vorisek has been appointed President of Reeves Sound Studios, a division of Reeves Broadcasting Corp. He succeeds Chester I. Stewart who has retired. Mr. Vorisek has been with the studios for more than 25 years and was formerly Vice-President and General Manager. He was associated for many years with the Foreign Department of Universal Pictures and he edited the first stereophonic sound effects for the original *This is Cinerama.*

William J. Robins has been appointed Sales Manager, Original Equipment Manufacturers for the Photolamp Div. of Sylvania Electric Products, Inc., 730 Third Ave., New York, N.Y. 10017. Mr. Robins has been with Sylvania since 1953. He was formerly Product Sales Manager. In his new post he will be responsible for overall marketing activities on photographic lighting products designed for equipment manufacturers.

Bernie Farbman has been appointed Assistant to the President of Berkey Video Services, Inc., of New York, and Harvey Plastrik has been appointed Vice-President and General Manager of the Berkey Optical Division. Both men will work closely with Manny Casiano, Jr., President of Berkey Video. Mr. Farbman was formerly Vice-President and General Manager of Eastern Effects, a division of Berkey Video Services. Mr. Plastrik was head of Creative Opticals, a firm he founded in 1964 and which became a Berkey company in 1968.

Richard Griffin Palmer has joined the Mass Media Division of the English Department of Western Kentucky University as an instructor. He was formerly a staff engineer for KVCR-TV-FM and a studio technician for Santa Ana, Calif., Unified Schools.

John T. Weber has been appointed Executive Vice-President and General Manager of the newly-named Price-Weber Associates, Inc., 1416 Spring St., Jeffersonville, Ind. The announcement was made by Edward A. (Jack) Price, President. Prior to Mr. Weber's appointment, the firm was known as Jack Price Associates. The firm produces motion pictures, slide films, sales and training meetings and graphic communications for industry.

William A. Carlson has been appointed Director of Consumer Photo Sales for Bell & Howell Co., 7100 McCormick Rd., Chicago, Ill. 60645. He succeeds George Oakley who has moved to another executive position within the organization. Other executive promotions include H. William Becker from Manager, Sales Administration to Director, Marketing Administration; Robert Matthei from Regional Manager to Manager, Market Development; William Adams from Manager, National Accounts, to Southern Regional Manager; Theodore C. Donhauser from Manager, Educational Services Dept., Audio-Visual Products Div., to Manager, National Accounts; and Thomas M. Leddy from District Manager to Manager, Sales Administration.

SMPTE Test Films

The Society has over 50 test films available for testing sound reproduction and projection equipment for both TV and theatrical presentations.

Most SMPTE test films are prepared in accordance with U.S.A./SMPTE Standards. The films are used for testing picture steadiness, traveling ghosts, framing, alignment, and focusing. Sound test films are used to check sound system frequency response, magnetic head or optical train alignment, and sound optics focusing.

A list of the groups of films follows:

Television—Alignment, Resolution, TV System Evaluation

35mm—CinemaScope—Projection Evaluation; image and 4-track magnetic sound tests

35mm—Projector Screen Image Evaluation

35mm—Sound Reproduction Tests: Optical

35mm—Sound Reproduction Tests: 3-track and single-track magnetic

70mm—Test Film, Projector Evaluation and Alignment: Image

16mm—Sound Reproduction Test: Optical

16mm—Sound Reproduction and Image Tests for Projector Screen Image Evaluation

8mm—Projector Screen Image Evaluation

A catalog containing details and prices of all SMPTE test films can be obtained from Society Headquarters, Att: SMPTE Test Films, 9 E. 41st St., New York, N.Y. 10017.