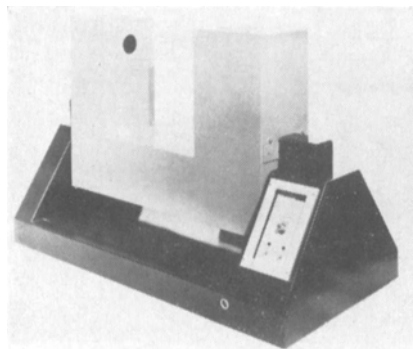


second range; and for studies of rocket motor and turbine exhausts, plasmas and similar applications. The helium-neon gas laser is said to provide an ideal coherent and monochromatic light source for interferometer or schlieren illumination, its intensity permitting ready observation

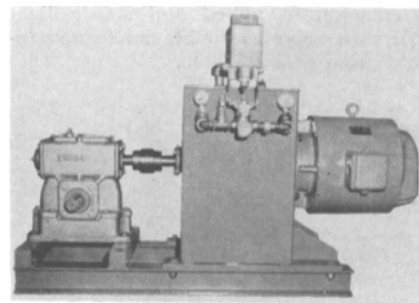


and recording of interference fringes. Its long coherence length provides high contrast fringes in almost any optical configuration. If desired, a giant pulse laser can be attached to the unit. The optical system is diffraction limited for high performance in the schlieren mode. A simple mechanical transfer is incorporated for change to a Mach-Zehnder mode.

A fast-writing cathode-ray tube with fiber-optic faceplate (Type K2427) has been developed by Du Mont Laboratories, Divisions of Fairchild Camera and Instrument Corp., 750 Bloomfield Ave., Clifton, N.J. Designed for extremely

high deflection sensitivity, high-resolution electrostatic focus and deflection, the tubes are said to enable fast-transient information, directly coupled to the signal plates, to be contact printed in sharp detail through the fiber-optic faceplate. Capable of a writing speed of  $10^{12}$  trace widths/sec at an overall acceleration potential of 10 kv, the tube is designed especially for operation in space-saving equipment required to withstand severe environmental conditions. Performance characteristics include resolution of 500 trace widths/in., and deflection factors of 3 and 10 v/cm in the signal and time axes. Defined in terms of trace widths, the tube is capable of deflection sensitivities of 15 and 50 mv per trace width in the signal and time axes. Useful scan is 500 trace widths in each scan direction with negligible defocusing at the scan extremes.

The Giant Pulse Laser System, a compact modular unit for use with a laser to produce outputs in the gigawatt range, is a product of Kappa Scientific Corp., 4416 Hollister Ave., Santa Barbara, Calif. The system consists of a 0- to 35-kv power supply, thyatron control unit, and 0- to 2,000-micro sec Kerr shutter delay, all rack mounted in an enclosure for the safety of the operator. A high-voltage pulse generator for the operation of the Kerr shutter is connected by cable. A Glan-Kappa polarizer and Kerr cells are provided to complete the system which is available as a unit or as individual components.



A motorized variable-speed fluid coupling called Aqua-Vari is a product of Fluid Drive Engineering Co., 313 Hibbard Rd, Wilmette, Ill. 60091. The speed change is accomplished by varying the slip between impeller and runner. The unit includes a motor and an electric remote control for remote operation from a 3-15-psi air controller. The bottom third of the welded steel case contains oil which is pumped into the fluid coupling. The impeller, which is keyed to the motor, contains orifices which continually meter oil out of the active circuit. Reducing the rate of flow into the active circuit produces a new lower level of oil and reduces the output speed. The oil is continually circulating and the excess oil raises the oil level in the reservoir. Controls are available for maintaining a preset output speed regardless of load fluctuations.



## employment service

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 These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

### Positions Wanted

**Motion-Picture Cameraman—Laboratory Technician—Sound Recordist—Film Director.** Over 13½ yrs television film experience. Looking for connection with progressive motion-picture studio, college film unit or television station film department. Have supervised all phases and can set up and direct your operation. In latest position installed and supervised high quality reversal processing laboratory at major market television station for over 2 yrs. Have own motion-picture cameras, lenses, tripods, etc. Desire position with congenial organization that's going places. Best industry references. Active Member SMPTE. Frank E. Sherry, 1841 West French Place, San Antonio, Texas 78201.

**Producer-Cameraman, American,** available for motion-picture assignments in Europe from July 15 to October 15, 1965. Dependable, responsible, highly organized and reasonable. Fully equipped mobile 16mm and 35mm Arriflex units. Five years experience, business and industrial films plus dramatic filming. Four languages. Work experience in 11 European countries. Co-Producer, cameraman "U.S.-Europe Educational Film Expedition 1963." Contacts with major European associates.

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**Sound Recording Technician:** Expd. studio and location recording, film and tape. Two years on 16mm Auricon news team, Europe. Lt. exp. as mot-pic cameraman on Fymo, Filmo, Auricon, and Wall cameras. Some still photography. Willing to relocate, U.S. or Europe. Mil. service just completed, age 25, single, seeking career opportunity. Résumé on request. Gerald Kornbluth, 3319 Kings Hwy., Brooklyn, N.Y., 11234.

### Positions Available

**Optical/Photographic Lab Assistant** to help engineers in the development, running and repair of film handling machines. Related experience in the professional motion-picture field helpful. Interesting assignments on advanced development work. Excellent salary and benefit program. Apply in person at Personnel Office or submit resume to James Roscerans, Director of Personnel, CBS Laboratories, Div. of Columbia Broadcasting System, Inc., 227 High Ridge Rd., Stamford, Conn.

**Television Film Editors** for major television network. Applicants must have practical experience in all phases of editing and cutting 16mm and 35mm motion-picture film. Good starting salary and excellent growth potential. Submit detailed resume to: Box JSMPTE 1083, 125 West 41 St., New York, N.Y.

**Telecommunications Engineer.** Familiar with operation & maintenance of simultaneous interpretation equipment, disc and tape recording, radio studio, paging & public address and program dial distribution facilities. University degree in electrical engineering or related field required. Knowledge of solid amplifier circuitry and experience in design & supervisory functions related to radio broadcast and audio equipment essential. Salary \$9300 to \$12,800 per annum plus dependency and cost-of-living allowances, six weeks leave a year, other fringe benefits. Send resume to Box JS 1629, 125 West 41 St., New York, N.Y.

**Advanced Planning-Photographic Engineer.** Opening for photographic engineer with experience in design of TV and film processing equipment and well versed in all types of film handling equipment. If you are interested in working in new product design and proposal preparation with fast-growing company, send your resume to W. V. Phillips, Houston Fearless Corp., 11801 W. Olympic Blvd., Los Angeles, Calif. 90064

**Sales Engineering for Additive Color Printer.** Bell & Howell is planning a marketing and service operation to cover Europe and associated international markets, to be located in one of their European marketing companies. A thoroughly experienced and competent European is being sought with contacts among potential users and technical proficiency who, after a training period in Chicago, will be capable of establishing this operation and providing customers with first-class service. Previous experience in color printing and professional cine equipment is essential, as is the ability and willingness to personally install and service such equipment. A good knowledge of English, French, and German is highly desirable. Please send references, resume, and salary requirements to: G. E. A. Perutz, General Manager, Photo Products Div., Bell & Howell Ltd., 20 Peel Street, London, W. 8, England.

**Television Engineer.** Leading Southern California aerospace firm is seeking senior television engineer to perform individual creative work in design of miniaturized special purpose cameras beyond the state-of-the-art. Candidate must be

capable of designing, debugging and packaging transistorized video scan and sync generator circuitry. Experience in image orthicon and vidicon required. BSEE plus 5 yrs experience preferred. Reply, giving full details, to Jim J. Reeves, 3401 W. Broadway, Hawthorne, Calif.

**16mm Motion-Picture Editor.** Must be thoroughly experienced in 16mm B&W and color editorial practices. Will work in a complete modern pilot motion-picture laboratory of well known national concern. Excellent chance for advancement. Supervisory abilities very desirable. Send resume and expected salary to: Warren R. Smith, 15 West 72 St., New York, N.Y. 10023

**Audio Visual Specialist.** Position as Ass't Director of Protestant Church AudioVisual Department. Must have thorough knowledge and experience in sound recording techniques, as well as diversified skills in films, filmstrips and other AV media. Starting salary about \$8500, many benefits, finest working conditions. Send resume, giving details of experience, to Joseph M. Elkins, AudioVisual Dept., Rm 1948, 475 Riverside Drive, New York, N.Y. 10027.

### Journals Available/Wanted

These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

Wanted: Trans. 1, 5, 6, 7, 8, 9, 11, 14, 16, 18; Journals: May 1932; May, June, Oct. 1933; Jan., Feb., Mar., Apr. 1934; Apr., May 1936; Apr., May 1937; Jan., Mar., July 1938; Feb. 1939; Mar., June 1940; High-Speed Photography Vol. III. Gian Maria Rimoldi, via Plinio 39, Milano, Italy.

Complete 1944 (except Aug.); complete 1945; Mar., Apr., May, June, July, Aug., Nov., Dec. 1949; complete 1950; Jan., Feb., Mar. (Pts. I & II), Apr. 1951. Complete years' issues available only as unbroken lots. R. H. Cricks, Technical & Export Publicity Ltd., 101 Wardour St., London W.1, England.

Complete set of Journals from March 1956 to March 1961, including special parts, directories, etc. Perfect condition, \$75. John Jagusiak, GA-13, United Nations, New York, N.Y.

Feb., Nov., Dec. 1949; Jan. (2 copies), Feb., Mar., June, Sept., Oct., Nov. 1950; Jan.-June, Aug.-Dec. (2 copies Sept.) 1951; Jan., Feb. 1952. Best offer. Write: Wm. P. Kruse, 1308 Glen Cove Drive, Richardson, Texas.

Complete set of Journals from January 1934 through December 1963. Excellent condition. For sale only as complete 30-year set. Write: Don Norwood, 1470 San Pasqual St., Pasadena, Calif.

Complete set of Journals from January 1951 through December 1952. Perfect condition. Write: K. Tsien, 14 Esplanade, Mount Vernon, N.Y.

Complete set of Journals from March 1956 through December 1962, including indexes and directories, in excellent condition. Write: J. B. Pesek, 369 Huntington Lane, Elmhurst, Ill.

July 1937 through July 1963. Complete less June 1942 and Nov. 1955. Condition excellent. Make offer to: Carl S. Williams, 237 Colgate Ave., Berkeley 8, Calif.

Complete set from January 1953 to date including indexes and directories. Excellent condition. For sale or trade for complete set only. Write to: George Widing, 8764 Beverly Blvd., West Hollywood, Calif. 90048

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