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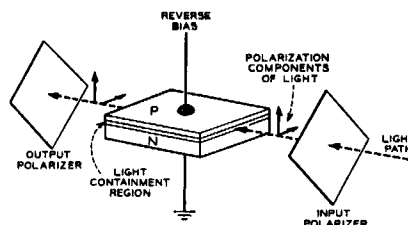
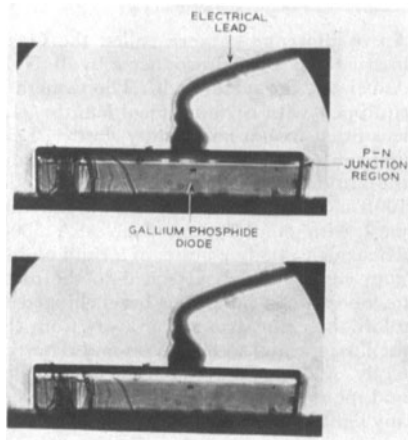
- Work Prints
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- Color-to B & W Prints
- Raw Stock
- Fastax Service
- A & B Roll Prints
- Fades-Dissolves
- Timed Prints
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FOR COMPLETE INFORMATION WRITE

LAB-TV

723 Seventh Ave., New York 19, N.Y. • JU 6-2293

state electronics sensitive to ultrasonic energy in the 36,000 to 44,000 cycle/sec range, as well as miniaturized preamplification circuitry. The transducer is said to detect ultrasonic energy created by air molecules under normal 5- to 10-psi pressure escaping from a cable leak as small as 0.0025 in. in diameter. The duct-probe system, used in conjunction with the firm's Delcon Ultrasonic Translator detectors used in maintenance of aerial pressurized communications cable, the new duct-probe system is designed as a self-contained, leak locator requiring only one operator. Price range of the detectors is from \$525 to \$850. Cost of the duct probe system is announced as less than \$1,250.



A new way to modulate light waves by applying a varying reverse bias to gallium phosphide diodes as the light travels along the plane of the diode p-n junction has been developed at Bell Telephone Laboratories. With a reverse bias applied to the diode, an incoming light wave is polarized and focused on the diode p-n junction region. The two polarization components of the light wave then travel at different velocities along the plane of the p-n junction and emerge from the junction out of phase with each other. The change in velocity imparts a phase modulation to each polarization component of light. To achieve amplitude modulation, the phase-modulated components of light are passed through an output polarizer.

In recent studies, 31 v were applied to a gallium phosphide diode and phase differences were measured up to 140° for green light of 5460 Å. This means that up to 88% of the light intensity entering the diode can be amplitude-modulated. The length of the diode, which is also the length of the light path, is about 0.025 in. The phase modulation in gallium phosphide diodes is believed to arise from a phenomenon known as the linear electrooptic effect (Pockels effect). This effect alters the index of refraction of piezoelectric crystals when a strong electric

field is applied to them. In the case of gallium phosphide diodes, the effect takes place in the p-n junction region when reverse bias is applied.

A broadcast television tape designated the 144 series has been introduced by Ampex Corp., 401 Broadway, Redwood City, Calif. The new tape, which features a special coating process called Ampex Ferro-Sheen, is said to have superior signal-to-noise characteristics, to provide cleaner operation than previously available tapes, and to be especially suitable for color recording.



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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 Production Associate.** Five yrs experience 16mm educational film area. Capable of handling all phases of production including printing and processing. Extensive photographic still background in commercial areas. BA from Univ. of Southern Calif. and partial graduate requirements for MA in Radio and Television. Presently with a small film unit at university. Am looking for employer who needs creativity combined with technical competence. Married. Age 30. Resume and references on request from John A. Werner, 1844 S. 43rd St., Lincoln, Nebr., 68506. (402) 488-5191.

**Photographic Technician.** 13 yrs experience all phases of photography, 4 yrs kinescope recording experience, all phases, experienced in closed circuit TV and some broadcast. Maintained and operated 1000B Ampex Recorder last six months WTTW Chicago. Retired from USAF 20 yrs, willing to resettle. Resume may be obtained by writing Hollis J. Hennigar, Box 95, Balbo Trailer Club, La Grange, Ill.

**Motion-Picture Producer.** U.S.-trained film producer operating in India invites offers from educational film producers in the U.S. to shoot films according to the latter's specifications. With the most modern equipment fixed on a jeep, this resourceful and on-the-go producer can willingly accept assignments from TV companies too. Please contact Syed R. Hasan, 6-Star Mansion-A, Christ Church Road, Byculla, Bombay-8, India.

**Editing/Production Assistant.** Solid background of courses in film production, editing, photography. Plusses: B.A. degree, extensive foreign residence, fluent French. Currently P.R. assistant/secretary in leading scientific research center. Will work hard—learn fast—make a contribution to your organization. P.O. Box 435, Lenox Hill Station, New York, N.Y. 10021.

**TV Design Engineer.** Qualified TV engineer pioneering experience dating back to 1936 in leading private television research and development laboratory. Well grounded in camera, sync generators, and all associated equipments, design, construction, and operation, from the above date to the present state of the art. Recently designed and installed a complete CC TV station complex in a leading state mental hospital with a 2500 patient population. Desires to propose, design, and follow through to completion and similar installation in another progressive, and forward looking large mental hospital, or equivalent, with a strong budget back-up and enthusiastic support of top echelon in management. Resume and photos on request. Write Harold A. Lockwood, c/o State Hospital, WLCF-TV, Logansport, Indiana.

**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.

### Positions Available

**Motion-Picture Technicians.** Experienced men wanted for repair and maintenance all types of professional motion-picture equipment. Rapidly expanding company offers excellent working conditions, fringe benefits and advancement to qualified personnel. Looking for professionals with knowledge of one or more of the following types of equipment: Mitchell, Moviola, Arriflex, Auricon, Bausch & Lomb, Nagra, RCA, Westrex, Magnasync, Mole-Richardson, etc. Relocation expense reimbursed. Send resume giving details of experience and salary requirements to: Oliver E. Cain, F&B/Ceco, Inc., 315 West 43rd St., New York, N.Y.

**Sales Engineers.** Motion-picture equipment company has openings for sales personnel with a strong background in professional production equipment. Must have at least 2 yrs experience equipment sales, and good general knowledge of film production techniques. Those qualifying have opportunity to join staff of a growth company offering finest working conditions, fringe benefits and rapid advancement. Send complete resume giving details of experience and salary requirements to: Oliver E. Cain, F&B/Ceco, Inc., 315 West 43rd St., New York, N.Y.

**Lab Technician** for the National Weather Records Center, Asheville, N.C. Position pays \$6050 per yr. Duties include motion-picture printing and sensitometry. Candidate must be technically oriented. Supervisory experience or training experience desirable. Application for Federal Employment should be sent to: Robert J. Millikin, National Weather Records Center, Federal Bldg., Asheville, N.C. 28801

**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.

## 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.

Transactions and Journals 1917 through 1963 (partly bound). Excellent condition. Very reasonable. J. J. Kuehn Sound Film Laboratory, 59 East Illinois St., Chicago 11, Ill.

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.

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per inch \$13.00

**FOR SALE:** Cine Kodak Special, lenses, magazine, focuser, etc. Old but trusted. Best offer over \$300. Send for details. D. Maclean, 8 Cameron, Tenafly, N. J.

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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