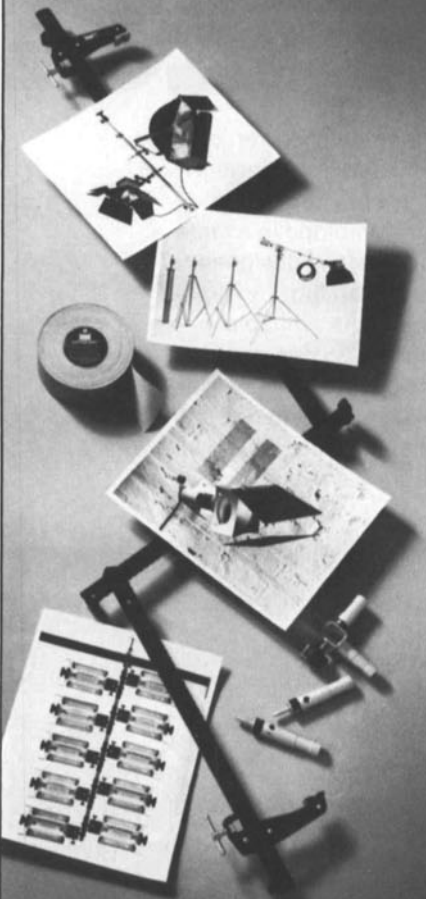


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helical type C VTRs, and their latest studio and ENG cameras. One interesting new product was the Viewfinder Display Unit (VDU) on the TK47 camera being shown. This VDU defines the safe action area, the relative lens angle, and some instructional word structures right on the viewfinder screen.

The Vital exhibit included their switcher line and the Squeezoom system for image manipulation. In addition, the Vital stand also showed Datatron and Cezar VTR editors and Paltex equipment from the United Kingdom.

Thomson-CSF had a booth in the adjacent building where they showed some of the important components they make for the TV industry; in particular, infrared imaging systems, special vidicons, and 12 GHz TVRO (television receive-only) sat-

ellite receivers. Also in the same building, Tektronix had a varied array of computer graphics products, test equipment, and oscilloscopes.

IREECON serves as a focal point for Australian broadcasters to exchange ideas, and to look at new equipment. As such, it attracts virtually all of the key technical people in the television industry. The important lectures were well attended and the exhibit booths had plenty of traffic. IREECON officials estimated that they had six to seven thousand visitors for each of the main exhibit days.

The 1983, IREECON is scheduled to be held in the new exhibition center in Sydney, the Royal Hall of Industry, where some 65,000 square feet of space is available for the expected expansion of IREECON.

Joe Roizen

INDUSTRY NEWS AND EDUCATIONAL ACTIVITIES

Byron Motion Pictures, Inc., of Washington, D.C., one of the East Coast's largest film and videotape processing laboratories, has added several key personnel formerly employed by Capital Film Laboratories, which recently closed its doors, according to Robert B. Roudabush, Byron's President. Some of the new Byron employees are: Paul M. Lyons, formerly Capital's Vice-President and General Manager, who joined Byron as Director, Sales and Service; Douglas Smith, Sales Representative, a position he also held at Capital; and Allen Hart and Debby Farrell, Customer Service Representatives, who held the same positions at Capital.

Toshiba America, Inc., has announced a reorganization and relocation of its divisional headquarters to 2441 Michelle Drive, Tustin, CA 92680. The Consumer Products Business sector will maintain its headquarters office in Wayne, N.J. The other eight divisions will move to the Tustin headquarters. The move is expected to be completed by February 1982.

The School of Television Arts, formerly the RCA Institute Television Studio School, has announced a new training program designed to supply qualified television maintenance engineers, electronics technicians, and studio engineers to meet the needs of the television industry. The training program, entitled BME 600: Broadcast Maintenance and Engineering,

was developed by K. Blair Benson, an internationally known authority on television.

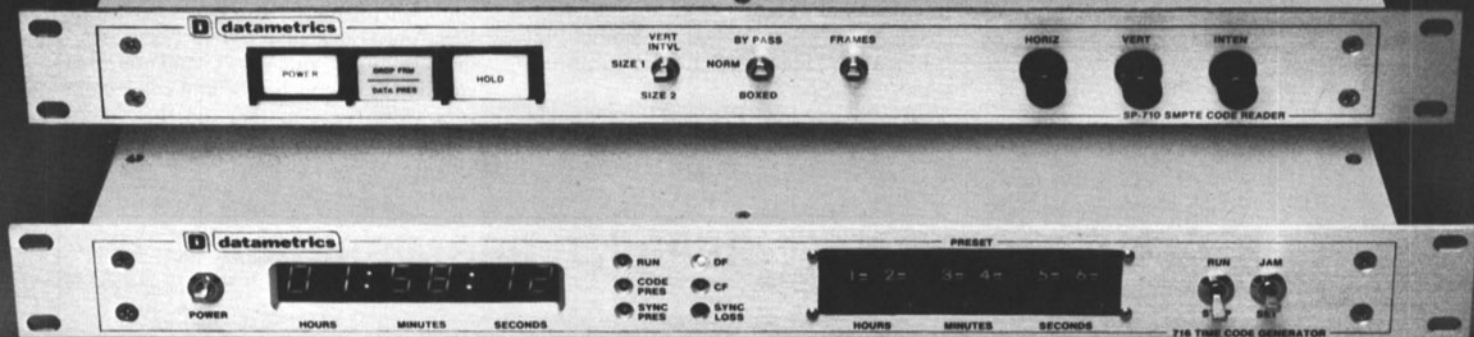
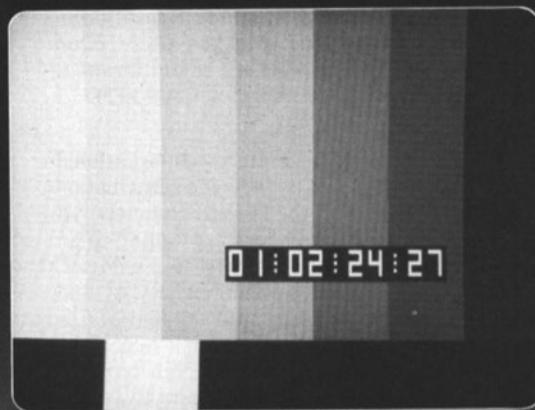
The 600-hour curriculum consists mainly of hands-on experience in repair and maintenance of television cameras, switchers, VTRs, monitors, studio and remote systems and an instruction in methods of analyzing systems and aligning components to peak performance. The BME program focuses on the fundamentals of equipment design, operation and repair, with most of the time spent on actual laboratory projects in problem analysis and repair. An electronics background is a prerequisite for acceptance to the program.

Further information is available from Scott Cannell, School of Television Arts in Production, Performing and Editing, 18 W. 61 St., New York, NY 10023.

The American Society of Photogrammetry and the American Congress on Surveying and Mapping have agreed to join in close association in order to represent more effectively the interrelated professions of surveying, cartography, photogrammetry and remote sensing.

The Association of Independent Commercial Producers (AICP) has authorized formation of a new chapter in San Francisco. AICP now has four chapters, the others being in New York, Los Angeles and Chicago.

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SMPTE 12/81

Milton Laikin, President of Laikin Optical Corp., Control Data Corporation Building, 5630 Arbor Vitae St., Los Angeles, CA 90045, will be teaching a course in Geometric Optics at the University of California at Los Angeles beginning January 4, 1982. The course will cover the design of optical systems, emphasizing geometric design aspects, including first order or Gaussian optics, image formation, third order aberrations, prism and mirrors, spherical and aspheric surfaces, pupils and optical materials. Further information is available from Milton Laikin at the address above, or from Continuing Education in Engineering and Mathematics, 6266 Boelter Hall, University of California at Los Angeles, Los Angeles, CA 90024.

RCA/Columbia Pictures International Video has signed its first video distribution agreement with the Dagens Nyheter AB organization of Sweden, according to an announcement by Herbert S. Schlosser, Executive Vice-President of RCA, and Patrick M. Williamson, President of Columbia Pictures International. According to the agreement, Dagens Nyheter will distribute, on a leasing or rental basis, 110 Columbia Pictures feature films on videocassettes over the next five years throughout Sweden, Denmark, Finland, and Norway. Both parties have agreed to discuss expanding the distribution arrangement to include other formats of video entertainment including additional programming from RCA SelectaVision, Columbia Pictures and Dagens Nyheter, and an extended time period.

RCA/Columbia Pictures International Video is a joint venture formed early in

1981 by RCA Corp. and Columbia Pictures Industries, Inc. to market home video entertainment programs throughout the world, excluding the United States and Canada.

Newly elected President of the Illuminating Engineering Society is Stephen S. Squillace, succeeding Donald Marcue. Squillace is Corporate Director of Electrical Disciplines for Smith, Hinchman & Grylls in Detroit. Other IES officers elected for the 1981-82 term are Louis S. Sternberg, Senior Vice-President, who is Lighting Engineer for Midland Electric Co. in Cleveland; James E. Jewell, Vice-President Administration and Operation, is Lighting Services Administrator, Pacific Gas & Electric Co., San Francisco; and Richard C. Levere, Vice-President Technical and Research, is Market Manager, Holophane Division, Johns-Manville Sales Corp., Denver. Newly elected to the Board of Directors are Glenn A. Baker, President, Environmental Research Laboratories, Scottsdale, Ariz.; and Donald E. Husby, Engineering Section Manager, Westinghouse Electric Corp., Vicksburg, Miss.

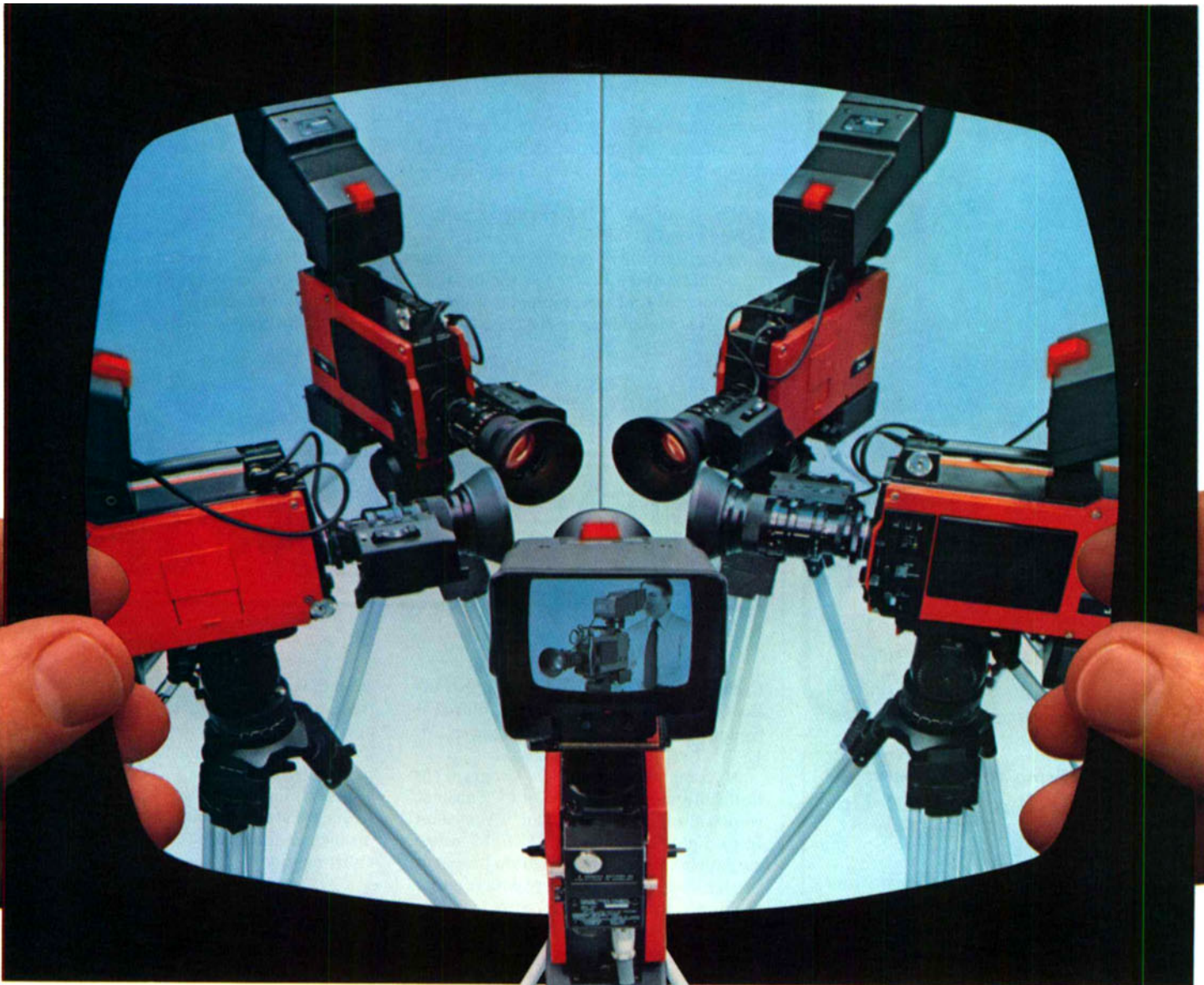
Bruce Blair, Chief Engineer of Lenco, Inc., Electronics Division, has been appointed to the new post of Vice-President of Research and Development, Electronics Division. Blair was formerly President of Mustang Electronics, located in Irving, Texas. Lenco manufactures video test and terminal equipment, monochrome and color monitors, video noise meters and the Videoscope.

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Memo to Members: Have You Signed Up A New Member Lately?

As one who has chosen to belong to SMPTE, you are aware of the benefits of SMPTE membership. Among these benefits are the prestige of being associated with the world's premier professional organization in the fields of motion pictures and television, the monthly *SMPTE Journal*, the local section meetings, and the annual conferences and equipment exhibits. If you know someone who meets SMPTE's requirements, you can offer to sponsor him or her for membership. This is the best way to help strengthen the Society and point someone toward increased professional growth. Applications are available from SMPTE Membership Dept., 862 Scarsdale Ave., Scarsdale, NY 10583.



The 1981 Engineering Salary Survey conducted by the Engineering Manpower Commission of the American Association of Engineering Societies, 345 E. 47 St., New York, NY 10017, reported an increase of 9.6 percent in median salaries paid to engineers over the past year. Salaries paid to newly employed engineers one year or less since graduation increased 11.8 percent over the same period. The weighted national average salary for all engineers is \$31,950.

Results of the 1981 engineers salary survey are available in three reports. *Professional Income of Engineers, 1981* presents charts and tables for all major areas of industrial and governmental employment. It is available from AAES at a price

of \$25. *Engineers Salaries: Special Industry Report* contains highly detailed breakdowns including breakdowns by degree level. It is priced at \$75. *Salaries of Engineers in Education* is priced at \$15.

Richard K. Anthony has been appointed Supervisor for 3M's New York Photograd Laboratory, and **Arthur R. Poudrier** was named supervisor for the Los Angeles Laboratory. Both men will be responsible for the production and scheduling for the Photograd coating service at their respective locations. The coating reduces scratches, static, dust, and fingerprints on motion picture release prints and is also used in film rejuvenation.

ABSTRACTS OF PAPERS FROM OTHER JOURNALS

Computer tool evaluates horizontal transient response of the NTSC Color TV System, S. S. Perlman, *RCA Engineer*, 26: 15-23, No. 6, May/June, 1981.

A computer simulation program to faithfully calculate the overall transient response of an NTSC color TV system from light-image input to light-image output is described. The program processes two horizontal lines of picture data in either the time domain or the corresponding Fourier-transformed frequency domain. Electronic processing, linear and nonlinear, is directly simulated in a serial fashion as the signal passes through the entire system. Program results are presented as software-generated plots and tables or are displayed subjectively on a TV monitor. Microprocessor-controlled video hardware converts the digital software-program results into corresponding sets of analog red-green-blue signals that drive the kine inputs of the display monitor. A split screen capability permits easy simultaneous subjective comparisons of up to four different program results corresponding to changes made anywhere within the system.

Optical Fibre Transmission Lines, W. A. Gambling, A. H. Hartog and C. M. Ragdale, *Radio and Electronic Engineer*, 51: 313-325, July/Aug. 1981.

Optical fiber transmission lines have many advantages over coaxial cables. The most widely used fabrication techniques involve chemical vapor deposition resulting in losses of well below 1 dB/km. Analysis of propagation follows well-defined principles, and the results obtained are broadly

comparable with those at microwave frequencies, although the wavelength of operation 1 μm is much shorter. By suitable design, single-mode fibers can be made to give bandwidth X length products approaching 100 GHz · km. Multimode fibers are now well understood, pose fewer problems, and can be excited with light-emitting diodes.

Large-Screen Flat-Panel Television: A New Approach, T. L. Credelle, *RCA Engineer*, 26: 75-81, No. 7 July/Aug. 1981.

A number of display systems have been investigated that could lead to the realization of large-screen flat-panel television. The requirements of size, brightness, color and power efficiency have eliminated some new technologies such as liquid crystals and electroluminescence. But a new guided-beam approach, based on cathodoluminescence, looks promising. Electron beam guides distribute modulated current over the display area producing a high brightness, full color large area display that operates at reasonable power levels.

SMPTE Organization

From 24 Members in 1916, the Society has grown today to about 9000 Members. Although the majority of the Society's Members live in the United States and Canada, nearly 1,000 are located in over 60 other countries.