



The Trouble-Shooters

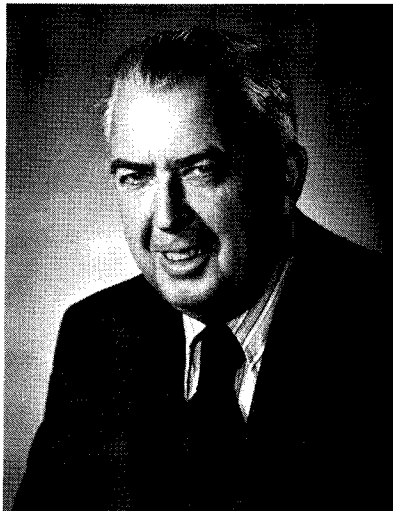
There's no waiting to see the picture when you're trouble-shooting with our mobile VIP-A² (Video Instant Playback Acquisition-Analysis). Sharp, high-resolution images can be disc recorded and played back at slow speeds, or held indefinitely for study. Up to an hour's information can be stored on tape and transferred to the disc recorder for instant replay and analysis.

With all these features it's no wonder the VIP-A² has so many uses. A Video Disc Recorder unit is also available for stop action and storage if you already have a video system.

For details contact Redlake Corporation, 1711 Dell Avenue, Campbell, CA 95008. Telephone (408) 866-1010.

REDLAKE
PhotoVideo Instrumentation

Obituaries



Roland E. Connor

Roland E. Connor, a Life Member of the Society, died 19 January at his home in Sanford, N.C., at the age of 60. He attended North Dakota State College and upon graduation joined Eastman Kodak as a design engineer. In 1941 he was granted military leave and between 1941 and 1946 was in the United States Army as a lithographic and photographic laboratory officer. He returned to Kodak in 1946 and in 1950 transferred to the Motion Picture Film Department as a consulting engineer and administrative assistant.

In 1964 he transferred to Hollywood as Acting Manager, Engineering and in 1966 was named Manager, Marketing Research and Analysis. In 1974 he was appointed Manager, Market Planning. He retired on 1 May 1976.

A member of the Society since 1952, he was also a member of the Optical Society of America.



Bernard R. Kantor

Bernard R. Kantor, Chairman of the University of Southern California Division of Cinema and Associate Dean of the USC School of Performing Arts, died 21 November following a heart attack.

Born 10 December 1922 in Springfield, Mass., his education included three years with the Army Air Force Navigation training schools and two years study at American International College, Springfield, Mass. He was a captain in the U.S. Air Force during World War II, flying 35 missions over Germany.

At the end of World War II he matriculated at the University of Southern California where he earned the B.A. degree in 1949, the M.A. degree in 1950 and a doctorate in Education in 1959.

Between 1950 and 1958 Dr. Kantor worked professionally in motion pictures in various capacities including cameraman, editor, writer and producer in documentary, educational and television films. In 1958 he began teaching at USC and in 1962 he was made Chairman of the Division of Cinema.

In 1967 when the USC School of Performing Arts was created by bringing together several arts schools and departments under one academic unit, Dr. Kantor chaired the Division of Cinema and served as Associate Dean of the School. In 1974 the Cinema Division's responsibility was enlarged under his leadership to include Television.

A man of extraordinary energy and ability he engaged in numerous activities. In addition to his academic responsibilities he was president and owner of New Media Enterprises, Inc., a commercial company producing motion pictures. He also directed a number of research projects for the United States Office of Education.

In 1955 he developed a process whereby infrared motion pictures could be made in total darkness. The system was used to make films of audiences in motion-picture theaters to show audience reaction to the film being shown. The system was described by Dr. Kantor in a paper, presented at SMPTE's 77th Conference, entitled "Infrared Motion-Picture Technique in Observing Audience Reactions."

Author of numerous articles for such periodicals as *Journal of the University Film Association*, *Audio Visual Communication Review*, *Review of Educational Research* and others, he was also motion-picture editor for *Compton's Encyclopedia* and the *Encyclopedia Britannica Junior*.

A member of SMPTE since 1947, first as a student member, then as a full member, he was made a Fellow in 1970.

Other professional organizations of which he was a member included the Academy of Motion Picture Arts and Sciences, Writers Guild of America, National Society for the Study of Education, University Film Producers Association and many others.

Howard W. Town

Howard W. Town, a Fellow of SMPTE, died 21 November 1976. He was active for many years in Society affairs and served as Manager and Chairman of the Detroit Section from 1962 through 1966. He was a Central Region Governor of the Society from 1962 to 1964 and also served on the Nominating Committee. He was Conference Chairman for the first Winter Television Conference, held in Detroit in 1967. Also active in SMPTE engineering efforts, he was an early member of the Video Tape Recording Committee, having been first appointed in 1960.

For Best Performance by an Optical Sound Track . . . and the winner is



The Westrex/Nuoptix Solid-State Recording Electronics System

patent pending

 Westrex
 Littion

... a complete, integrated system designed to record optical sound tracks on a conventional Westrex film drive with a fidelity that virtually eliminates the old constraints of optical tracks! The Westrex/Nuoptix FR-1 sets a new standard of performance; an amazing improvement in transient and frequency response! Capable of driving a conventional Westrex light valve beyond 12KHz, the FR-1 uses a solid-state analog delay in a unique anticipatory noise reduction system that configures the optimum noise reduction envelope to assure no valve clash on transients and minimum valve opening for optimum signal-to-noise performance.

Compactly configured in one cabinet for easy shelf or rack-mounting, the FR-1 features front panel switchable electronic film loss equalization, high/low pass electronic filters for recording 35mm, 16mm, or even 8mm tracks, and positive valve overload protection and metering of the recording process. It is 100% solid-state, covered by a Two-Year Warranty.*

Now you can replace your old record electronics with the FR-1, as many of the world's finest studios have done. It is directly compatible with all existing Westrex recorders, and of course, is now being furnished with all new Westrex Recording Systems.

* Write, call or wire for further information and complete Warranty details:
 FRANK PONTIUS, VICEPRESIDENT MARKETING
 WESTREX, 390 NO. ALPINE DRIVE,
 BEVERLY HILLS, CA. 90213
 PHONE (213) 274-9303
 CABLE: WESTREX





CARRY LESS WEIGHT. CARRY MORE FEATURES. CARRY JVC.

You can quite literally stand more easily above the crowd with the JVC GC-4800U Portable Color Video Camera, and the JVC CR-4400U Portable Color $\frac{3}{4}$ -U Videocassette Recorder.

Together, including battery pack, they weigh only 36 lbs. Compare that to competitive products. If competition will tell you.

And, singly or together, they give you more features dollar for dollar than you would have thought possible. Unless, of course, you already know JVC.

Take the JVC GC-4800U camera. It has exceptional color purity.

And now, in its second-generation version, even better sensitivity, sharpness, shading,

colorimetry than ever before.

Even easier-to-operate set-up controls.

More versatile color temperature controls on the CCU.

And it still has traditional JVC reliability.

And the same low price.

Now look at the JVC CR-4400U recorder.

It takes 50% less power than most other units, so it will run for about 90 minutes on one battery charge. Or about 40 minutes in tandem with the camera.

Both, naturally, can also be powered from a car battery or from an AC outlet with an adapter.

And the CR-4400U is the only portable $\frac{3}{4}$ -U recorder with AEF--JVC's unique

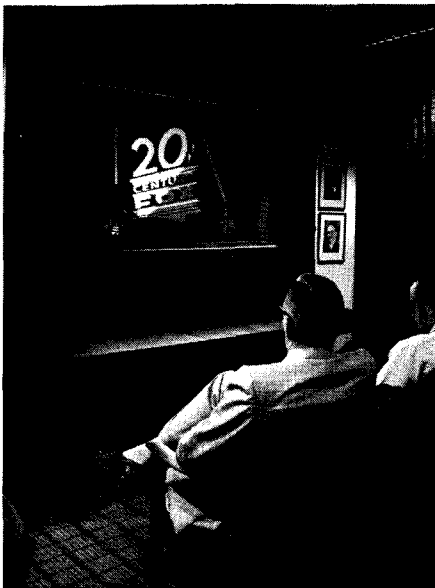
Automatic Editing Feature. It lets you assemble edit on the spot. Clean and glitch-free from scene to scene.

The features don't stop, but we have to.

Write for details: JVC Industries, Inc., Dept. HV-MF-47, Product Information Bureau, 22-22 Jackson Ave., Long Island City, N.Y. 11101. Or call (212) 476-8010.

JVC WORKS WITH YOU.

JVC INDUSTRIES, INC.



Rear projection screen offers advantages

A built-in Da-Lite Da-Plex™ "Picture Window" rear projection screen works in normal room lighting and eliminates distracting projector noise. It is superior for screening, briefing and conference rooms. Da-Lite has a complete line of standard and custom designed screens. Write or call today for the name of your nearest Da-Lite Audio-Visual Specialist.

DA-LITE Da-Lite Screen Co., Inc.
Warsaw, Indiana 46580
Slide and movie screens since 1909

little mike BIG EAR



Here's a really all-purpose microphone—just about as small as possible, 8mm by 18mm by 5mm (5/16 by 11/16 by 3/16 in.), but big in performance and versatility. Slick and smooth for minimum clothing noise. Wide frequency range without peakiness for use with music as well as speech. Specially developed cabling and connectors. Immediate delivery, too!

Model 14: 4 ft 6 in. cable, locking micro connector, \$110.;
Model B-30: 12 ft cable, locking micro plug, and matching balance transformer for balanced/unbalanced convertibility, \$140.



1825 NE 149 Street Miami, Florida USA 33181
305/945-1111
Telex 51-9348
TWX 810/845-4242



**IMAGE
DEVICES
INCORPORATED**

Born on 1 December 1928, Town lived most of his early years in Plymouth, Mich. He was educated at Cass Technical Institute and Electronics Institute of Technology, both of Detroit. Virtually his entire career was spent in broadcasting, except for two years in the U.S. Navy near the end of World War II. He worked as a radio engineer at WJR, Detroit and at NBC, New York. He assisted in the construction of television station WJRT in Flint, Michigan and spent many years as a Broadcast Field Service Engineer with the RCA Service Co. He assisted in the installation of RCA color television studio and transmitting equipment at many stations, during the period of the late 1950s when local origination of color programs was just beginning.

Early in 1959 he was appointed the first engineering manager for National Educational Television, Inc., Ann Arbor, Mich. He served NET for 10 years and was eventually appointed Vice-President. During this decade he was instrumental in shaping the role of videotape recording as a primary method of television program distribution. From the onset of the extensive NET videotape program duplicating service, a definite commitment was made to endorse and utilize SMPTE-standardized recording techniques. The impact of his decision in support of standardization, made in 1960, has had great significance to the industry and was especially important to the development of videotape re-

ording in non-commercial television stations affiliated with NET and, later, PBS.

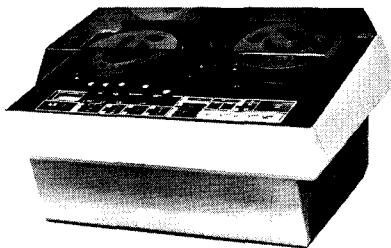
Following the ten-year association with NET, Town moved in 1969 to Ampex Corp., Redwood City, Calif. There, in the position of Product Planner, he was responsible for the planning which resulted in the development of the Ampex ACR-25 quadruplex cassette video recorder, a device which has had significant impact on the broadcasting industry. Town was also Product Planner for the Ampex high-speed contact videotape duplicating system.

From April, 1972 to May 1974, Town served as Manager of Engineering for WTTW, Chicago. During this time he was responsible for major reconstruction of the WTTW studio facilities as well as the planning, purchase and installation of new WTTW transmitter facilities atop the Sears Tower, Chicago.

Having successfully completed the WTTW projects, Town again joined Ampex Corp. as Manager of the Audio Engineering Section. Beginning in May, 1974, he led the engineering efforts which resulted in the Ampex MM-1200 multi-track recorder and the ATR-100 professional studio audio recorder.

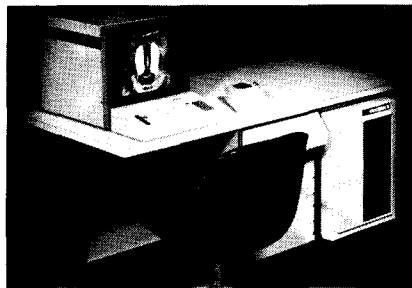
This listing of the impressive professional accomplishments of Howard Town cannot adequately explain the sense of acute loss felt by the hundreds of broadcasters who knew and respected him, both as an engineer of quality and as a fine and honest person. — *Frederick J. Remley, Jr.*

New Products & Developments



The new IVC-1070 ChromaCon series of videotape recorders has been announced by International Video Corp., 990 Alamanor Ave., Sunnyvale, CA 94086. The new recorders incorporate the basic recording format used in all IVC 1-in videotape recorders since 1966 but they have a totally new video and audio signal system. SNR has been increased to 47 dB. Visible moiré has been eliminated and differential phase and gain errors have been substantially reduced. Both audio channels deliver 50 dB. Multi-generation dubs of up to five generations are possible without significant degradation of picture quality or color accuracy, the announcement stated. Applications for the new recorders include broadcast; electronic field production; off-line editing and studio mastering; and industrial, educational, and government. Special attention has been given to the audio system. One channel has been designed for audio-only edits and two line and two microphone inputs can be mixed

simultaneously in both audio channels. Price of the IVC-1070 ChromaCon ranges from \$10,000 to \$12,000 depending on options. Also available is the ChromaCon kit providing video-only improvements. Its priced at about \$1500.



Vision One, a stand-alone video image processing system, has been announced by Comtal Corp., 169 North Halstead St., Pasadena, CA 91107. Designed to give users a total system from front-end processor to applications software, Vision One combines in one package an LSI-11, the image processor, the refresh memory with optional CCD (Charge Coupled Device) or 16K RAM (Random Access Memory), and Comtal-developed applications software. The unit can be hooked up directly to any big computer such as an IBM 370 or it can stand alone. The system provides high fidelity, high-spatial res-