

of motion-picture sound recording reproduction and to seek, promote, and enhance the status and recognition of the contribution of those therein engaged. For further information, contact David Old, 27-29 Berwick St., London W1V 3RF, England.

**Sony Corp. of America** has announced the formation of Sony Communication Systems Division (CSD), a new business unit of Sony Systems and Technology (SST). CSD will be engaged in the design, engineering, integration, and installation of turnkey systems that are comprised of audio, video, and systems products produced by the company's various product groups. The division will report to Harry Taxin, president, SST. At the core of CSD are the former management and employees of Lude Broadcast Engineering (LBE). Peter Lude, founder of LBE, has been

named vice-president and general manager of CSD.

**Barco Inc.** has moved its corporate headquarters to Kennesaw, Ga. The new, expanded facility will house the Large Screen Display Products, Computer Display Products, and the Broadcast Products Divisions. The move to the new headquarters represents the consolidation of the company's three existing Atlanta-based facilities to create one central location for marketing, sales, distribution, and technical support operations in the U.S.

**Ediflex Systems** has been acquired by Lawrence Kuppin and Robert Rehme, former co-chairmen of New World Entertainment Ltd. The company was previously known as Cinedco, Inc. All key pre-existing management personnel have entered into new multiyear contracts and will continue day-to-day management of

the company, including Herb Dow as executive vice-president, Andy Maltz as vice-president of engineering, Stephen Goldsmith as vice-president of special projects, and Milt Forman as executive consultant. Mitchell Koch, formerly treasurer of New World Entertainment, will direct the company's operations as its president and chief executive officer.

**Time Logic, Inc.** has moved its headquarters to a new facility, more than tripling its physical space. "Within the past year or so, we have virtually doubled our business," said president Jim Lindelein. "This has come through increased sales, plus new products. The new facility provides us with larger engineering facilities, as well as greatly expanded manufacturing and warehousing capabilities." The new address for the company is 11992 Challenger Ct., Moorpark, CA 93021.

## Obituaries

### Walter Bruch

Walter Bruch, one of the most creative geniuses of the television industry, passed away on May 5, 1990. He was 82 years of age.

Prof., Dr.-Ing. E.h. Walter Bruch will be best remembered for the development of the PAL system, or phase alternation line system, where the color subcarrier phase is shifted from one line to the next through the transmission of a line switching signal and a color burst. Today, this is the standard for television transmission in more than 70 countries in Europe, South America, and Asia.

Born on March 2, 1908, Walter Bruch became fascinated with television early in his life. He was a radio hobbyist at 14 years of age, and at 17 he became mesmerized by the early electromechanical television apparatus he had the opportunity to admire at the Communications Exposition in Munich in 1925. From then on, his life was dedicated to the medium that in those days seemed no more than an unrealizable dream, much less ever thinkable in color. In total, he was granted some 200 patents.

In 1925 he started his career as a simple mechanic. Later he worked as assistant installer for an electrical power station, where he had to maintain and replace overhead lines in the countryside, balancing himself precariously atop poles and roofs of buildings. He then attended the Engineering School in the town of Mittweida, and he visited the 5th Great Radio Exposition of 1928 in Berlin, an unforgettable event in this writer's own memory.

In 1935 Bruch joined Telefunken,

where he worked with one of the first of Zworykin's Iconoscopes. He designed and built almost the entire television system for the transmission of the Olympic Games in Berlin in 1936, manning the cameras himself. He continued working with Telefunken, and during the war he was active in the development of television equipment for military uses. The aftermath of the war brought with it hard times for him, but in 1950 Telefunken called him back, and from then on he played an important role in the development and establishment of systems and equipment for the two existing German broadcasting systems. Under his guidance, in 1952 Telefunken's first postwar TV receiver, the FE8, was presented to the public.

In 1959, AEG-Telefunken established a laboratory for his own use in basic research and development, where he created the highly original PAL system. Color television was inaugurated in the German Federal Republic in 1967 and was first shown at the 25th German Broadcast Exhibition of that year in Berlin.

Bruch worked afterwards on numerous other things that today we take for granted: the nonprofessional video recorder, digital color television transmission, satellite transmission systems, analog-to-digital conversion, pulse-code modulation, and many, many more. In 1976 he retired, but he remained active for the rest of his years adding to the many publications he produced during his working years, working as a consultant, and being of service to the many organizations in his chosen field.

Many were the honors that came his way. He was an Honorary Member of the *Fernseh-und Kinotechnische Gesellschaft* (FKTG), which distinguished him with

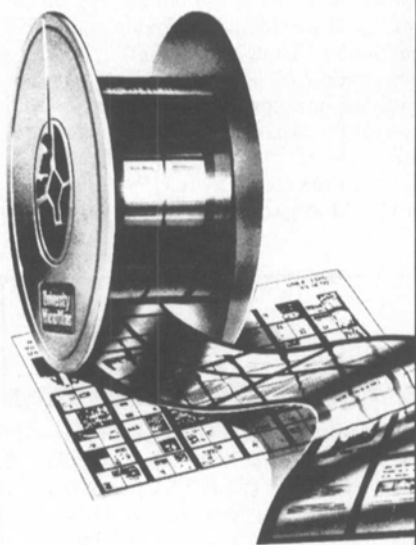
the Richard Theile Gold Medal. In 1989 the Society of Motion Picture and Television Engineers (SMPTE) presented him with its Honorary Membership Award. In 1971 he had already received the David Sarnoff Gold Medal from the SMPTE. He was made a Fellow of the Royal Television Society (England), and was awarded Honorary Membership by the Institution of Electronic and Radio Engineers (IERE, England) and other distinctions in Brazil, Australia, and Switzerland. In 1976 Bruch was the recipient of the Werner von Siemens Ring, and in 1985 he was the recipient of the Eduard Rhein Prize, both from the FKTG. He received the Great Cross of Merit with Star from the German Federal Republic. In 1964 the University of Hannover bestowed on him the title of Doctor in Engineering Honoris Causa, and the Minister-President of the Saarland awarded him the title of Professor in 1968. Numerous other awards and honors came his way — too many to list.

His personality and achievements will always be commemorated, cherished, and admired worldwide by the television industry. —*Pablo Weinschenk-Tabernero*

### Michael Barlow

Michael Barlow, a Fellow of the SMPTE, is dead at the age of 60. Originally from London, much of Barlow's life was spent in Canada. He had been employed by CBC since 1960, where he held several engineering positions, including senior engineer and supervising engineer of the studio sound department. He also held positions at Canadian Marconi Co. and Marconi's Wireless Telegraph Co. Ltd.

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*Michael Barlow*

An SMPTE member since 1957, Barlow's activities on behalf of the Society included the formation of the Montreal Section and responsibility for the television side of the SMPTE Technical Conference held at the Queen Elizabeth Hotel in 1965. He had also served as Program Chairman of the Montreal Section where he organized regular monthly technical meetings, and Television Papers Chairman for the 110th Technical Conference held in Montreal and the 116th Conference held in Toronto. His professional achievements at CBC include creating a mobile design unit, working as the project engineer for color conversion of Toronto television studios, and coordinating the captioning of programs for the deaf.

In addition, Barlow authored or coauthored over 40 technical articles and served in a number of organizations including the British Amateur Television Club (of which he was a founder), the British Institution of Radio Engineers, the Montreal Movie Club, the Institution of Electronic and Radio Engineers, the Federation of Canadian Amateur Photographers, and the Association of Professional Engineers of Ontario.

### **Angelo Boudouris**

Angelo (Al) Boudouris, president, Eprad, Inc., died on April 26, 1990, at the age of 72. He joined the Society in 1950, became a Fellow in 1980, and in 1988, he became a Life Member. Boudouris had a long career in the motion-picture industry, first as a theater owner and then as a manufacturer of projectors and allied equipment. At Eprad, he designed and built over 200 theaters. He also had numerous inventions to his credit, and received over 50 patents for products such as the Show Without Rewinding Device (SWORD), an automatic rewinding unit, and a xenon light source system for projection to monaural and stereo-optical sound systems.

He was very involved with the National Association of Theater Owners (NATO)

and served as president of NATO Ohio, vice-president of NATO, and chairman of the NATO Technical Committee. In 1979, he was the recipient of the Truman T. Rembusch Award, given by NATO of Ohio for distinguished service to theater owners.

**Jack Whitehead**, a Fellow of the SMPTE, died September 11, 1989, of a heart attack. He was 89. Born in London, Whitehead was brought to the U.S. in 1956 by the late producer Fred A. Niles after a Niles crew worked with him on an overseas film. He entered film work through shooting still photographs. His early camera work includes *The 39 Steps*, *The Red Shoes*, *Sabotage*, and *Stage Fright*. He also shot second unit work in Chicago on *Ordinary People*, *Omen II*, and *The Fury*. Whitehead later stopped working on feature films and began a second career as a teacher of cinematography at Columbia College in Chicago, where he taught for 15 years. He was a long-time member of the British Society of Cinematographers.

**Gerald M. Best**, a long-time SMPTE member, died at the age of 95. He joined the Society as an Associate Member, and in 1945, he was transferred to Active Member status. In 1965, he became a Life Fellow. He served on the Society's Board of Editors from 1956 to 1957. He was retired from Warner Brothers Studios where he had worked as chief recording engineer. He had also held positions at Western Electric Co., Pacific Telephone & Telegraph Co., and *Radio* magazine.

**Roger H. Rupe**, a long-time SMPTE member, is dead. He joined the Society as an Associate Member in 1936, and was transferred to Active Membership in 1949. In 1975, he became a Life Member. During his lifetime, Rupe held positions at Floyd H. McCall, Home Movie Sales Agency, the Colorado State Highway Department's Reproduction Section, Rocker Solenoid Co., TRW Space Technology, and Color Television and Stereo. He also operated his own business, Roger Rupe Transworld Cinivideo.

**Charles H. Carleton**, president of Carleton Laboratory Motion Picture Services, died on May 11, 1990. He had been an Active Member of the SMPTE for 37 years, and in 1981 he became a Life Member. Prior to starting his own business, Carleton held positions at Duplex Cinema Equipment Co. and Hollywood Colorfilm Corp., where he designed and operated printing and developing equipment.

**James J. Magoonis**, an Associate Member of the Society, died on October 1, 1989. A photographer, he joined the Society in 1955, while working for the City of Vallejo. He also served as a projectionist for the YMCA during World War II.