Obituary

H. W. Lee

H. W. Lee, a lens designer who died in 1976, was a personification of the ideal early lens designer who combined mathematics with instinct and who selected glasses by facts and feel and who made models instead of programs.

Born in 1889, he took his MA in Mathematics at Cambridge and shortly thereafter (in 1913) he became associated with Taylor-Taylor-Hobson where he remained until 1937. Among his achievements was the first wide-aperture (*f*/2) double-Gauss lens (1920), the forerunner of many modern camera lenses. It was used by Leitz for the renowned Leicas. Other "firsts" were the wide-aperture telephoto with geometric correction (1923) and the wide-aperture inverted telephoto design (1931). He worked for a while with Scophony-Baird and he engaged in appropriate war work.

A friend of his middle years describes him as "kindly and cultured. He made newcomers welcome not only in the works but also in his home — a rambling musician's home his wife being a violin and viola player and an orchestral conductor of some repute and he himself having accomplishment with the viola."

"Kindly and cultured" is the impression he has left on those who remember him and they speak of him with affection and with high regard for his work as an original lens designer. — *George Lunn*

Detroit, 21 September — The meeting was held in the studios of Station WKBD, Channel 50, in Southfield, Mich., with an attendance of 54 members and guests. The speakers were David Rosen of TVC Labs and Al Martin of WKBD-TV. Rosen's paper was entitled "Extended Speed Processing for Lower Contrast Film." He described the Chem-Tone process, pointing out that by use of the Chem-Tone process standard camera and print stock can be used when high contrast scenes are encountered. A demonstration film showed high contrast scenes. The print was low in contrast and revealed high light integrity and detail in the dark areas of the high-contrast scenes.

Al Martin gave an orientation talk on Channel 50's 120 kW transmitter. He described a method for reducing klystron power requirements.

Following the two presentations members of the audience were taken on a tour of WKBD facilities. — Warren Happel (Secretary-Treasurer), Browne Associates, 25 W. Long Lake Rd., Bloomfield Hills, MI 48013.

Nashville, 23 September — The meeting was held at the WSM-TV studios with an attendance of 42 members and guests. The speakers were Mike McCrickard of Bill Hudson Associates, Ed Browning and Dave Comstock, both of Tektronix, Inc. The Bill Hudson Associates are the producers of the State of Tennessee Public Service TV and radio announcements entitled "Tennessee Trash." The series is designed to promote public awareness of litter problems. McCrickard showed the 60-s film which was very well done and has been well received by all sectors of the state. He then described the planning preceding the premiere of the film — the many details, decisions to be made, etc.

He then showed a series of slides that were made during the filming followed by another showing of the film.

Browning, spectrum analyzer specialist for Tektronix, demonstrated the latest techniques in spectrum analysis, for both television and radio. He demonstrated the method for measuring spurious signals, signal-to-noise measurements, etc.

Comstock, video expert from Tektronix, demonstrated the latest methods and equipment for television sideband analysis, using a television modulator and the firm's sideband analyzer and spectrum analyzer.

A lively question-and-answer session and hands-on demonstration followed Comstock's presentation. S. Lee Whitehurst (Secretary-Treasurer), WSM, Inc., P.O. Box 100, Nashville, TN 37202.

Pacific Northwest, 26 July — The meeting was held at the H. R. MacMillan Planetarium in Vancouver, B.C., Canada, with an attendance of 32 members and guests. The planetarium is known as one of the most modern and creative planetariums in North America. The first event of the evening was a one-hour, behind-the-scenes tour of the planetarium. The group had the opportunity of viewing the sound production studio, the more than 100 special effects projectors, the Zeiss planet and star projector and the computer that controls the entire show. Following a dinner in the planetarium restaurant, the 32 members and guests viewed the plantarium's Mars show by the invitation of the planetarium officials. — C. Eugene Newcomer (Secretary-Treasurer), Pacific Northwest Bell, 1200 Third Ave., Seattle, WA 98101.

Pacific Northwest, 10 September — The meeting was held in the auditorium of the Puget Sound Power & Light Co. with an attendance of 29 members and guests. The speaker was Len Ecker of Jerrold Electronics, Philadelphia, whose presentation was entitled "an Overview of CATV." He outlined the history and development of Cable Television and gave an in-depth analysis of the current state-of-the-art in the CATV industry and prospects for the future. A lively question-and-answer session followed his talk. The meeting was preceded by a dinner at the Black Angus restaurant. — C. Eugene Newcomer (Secretary-Treasurer), Pacific Northwest Bell, 1200 Third Ave., Room 1101, Seattle, WA 98101.

Rocky Mountain, 19 Aug. — The meeting was held at the facilities of Davis Audio Visual in Denver with an attendance of 43 members and guests. Keith Tindall of JVC gave a presentation on new developments in portable videocassette recorders and editing systems. He demonstrated the features and capabilities of the CR-8300 recorder and the CR-4400 portable recorder. Tindall's demonstration of videocassette editing techniques was of particular interest to those members of the audience involved in Electronic Newsgathering. Following a question-and-answer period, members of the audience were given an opportunity for hands-on operation of the equipment. – C. R. Dahlquist (Secretary-Treasurer), Del Calzo & Assoc., 300 Speer Blvd., Denver, CO 80203.

Rocky Mountain, 11 September — The meeting consisted of a special one-day seminar on the use of film and television in educational media held at Colorado State University in Fort Collins, Colo. The seminar was conducted by Preston Davis, James French, Carlos Seegmiller, Tom McCall, Larry Preuss and John Pray, all from CSU's Educational Media Dept. Following opening remarks by Preston Davis, Department Director, 44 members and guests toured the studio and engineering facilities of CSU. After the tour, Carlos Seegmiller, Coordinator of Motion Picture Services, spoke on the applications of film in the educational media program.

James French, Senior Electronics Engineer at CSU, described the technical details of the CSU television system. His talk covered video distribution systems, RF distribution, microwave links and the planned ITFS installation for transmission of TV signals to isolated campus locations.

Tom McCall, Larry Preuss and John Pray, all of the CSU-TV staff, discussed various aspects of computer recall display, studio effects, and film vs cassette VTR picture quality.

Luncheon speaker was Frank Vattano, Assistant Vice-President for Academic Development at CSU. — C. R. Dalquist (Secretary-Treasurer), Del Calzo & Associates, 300 Speer Blvd., Denver, CO 80203.

Toronto, 21 September — The meeting was held at the Ryerson Institute Photo Arts Building with an attendance of 70 members and guests who came to hear about the construction of the CN Tower in Toronto and the antenna installations near its top. The meeting opened with a film about the general construction of the tower entitled *To the Top*. The CN Tower is the world's highest free standing structure, rising to a height of 553 m (1815 ft). Concrete rises to the 451-m level above which is a 102-m steel structure supporting the various antennas. At the 335-m level there begins a seven-story "sky pod" which contains two observation decks, a revolving restaurant and four floors of broadcast and communications equipment.

Guest speaker was Ray Tattersall of EMI England, the firm receiving the contract for the antenna system and its installation. Tattersall gave a most interesting and humorous account of the problems involved in installing the five TV antennas and the master FM antenna. At present the system accommodates Channels 5, 9, 19, 25 and 79. Space for several additional UHF channels is available. The master FM antenna is now used by five stations and, when required, can accommodate up to 11 stations.

After the coffee break, another film, *Topping Off the CN Tower*, was shown. The film highlighted the construction of the steel antenna mast which rises 102 m above the concrete. The mast was constructed in sections, 39 in all, and hoisted by helicopter to the top of the tower. The sections or "cans" as they were called were constructed to slide precisely onto the one below. When placed in position by helicopter the sections were bolted together. Over 30,000 bolts were used in the mast construction.

Because the mast will be subject to high wind loadings, special precautions were taken to prevent vibrations from occurring at the resonant frequency of the structure, a situation that could cause the mast to self-destruct. A sophisticated computer-controlled vibration damping system that consists of spring-supported 10-ton lead weights has been placed at two levels around the outside of the mast.

The meeting was arranged by Section Manager H. H. Berger who had played a major role in the television installations in the tower. — R. J. Brule (Secretary-Treasurer), 3M Company, 790 Wellington St., London, Ont., Can.

Coming soon—

The 11th Annual SMPTE Winter Television Conference

Friday and Saturday, January 28–29, 1977

St. Francis Hotel, San Francisco, Calif.

Featuring:

- **A full day's sessions on "Beyond ENG," discussing highly portable high quality video equipment.**
- **A full day's sessions on Digital Video, picking up where last year's meeting left off, with strong emphasis on Digital Video Equipment.**
- **A 32-booth equipment exhibition of ENG and Digital Video equipment. No other equipment will be permitted.**
- **A wine and cheese party on Friday evening.**
- **A Sunday post-conference tour to the California wine country.**

Watch for complete details in the December SMPTE Journal. Or write or call, SMPTE Winter TV Conference, 862 Scarsdale Ave., Scarsdale, NY 10583, (914) 472-6606.

Forthcoming Professional Meetings

The Division of Science Information, National Science Foundation, Washington, DC 20550, has sponsored three public seminars to present research findings from 21 projects. The first two seminars were held in September and on 3 November. The third will be held 1 December at the PEPCO Auditorium, 1900 Pennsylvania Ave., N.W., Washington, D.C. The first seminar acquainted members of the information community and the public with results from research on scientific and technical problems. The second focused on formal and informal communication patterns among scientists and engineers. The third (1 December) seminar, "Planning Data for STI Managers" will present findings from five projects including analyses of the impacts of trends in the U.S. scientific and technical communication enterprise.

The International Industrial Television Assn. (ITVA) will hold its 9th Annual International Conference, 27-30 March 1977 at the Statler-Hilton Hotel in Washington, D.C. The 1977 ITVA Conference program will focus on the needs of practicing professionals in nonbroadcast television. The ITVA is an association of users and suppliers in the nonbroadcast television industry with about 1000 members. ITVA Chapters are located in 17 cities in the United States and Canada. Further information is available from the ITVA International Office, P.O. Box 297, Summit, NJ 07901.

The IREECON International Convention and Equipment Exhibit organized by the Melbourne Division of the Institution of Radio and Electronic Engineers (IREE) Australia, will be held 8-12 August 1977 in the Exhibition Building in Melbourne. The IREE's 16th Convention will offer an extensive exhibit of the latest technological advances in electronic equipment in addition to the technical papers program. Distinguished scientists and engineers from Australia and overseas will present papers on a wide range of subjects. Further information is available from the IREE at Clunies Ross House, 191 Royal Parade, Parkville, 3052, or 157 Gloucester St., Sydney, 2000.

SMPTE Technical Conferences

28–29 January 1977
SMPTE Winter TV Conference, St. Francis Hotel, San Francisco. Info from SMPTE, 862 Scarsdale Ave., Scarsdale, NY 10583.

16–21 October 1977
SMPTE 119th Technical Conference and Equipment Exhibit, Century-Plaza Hotel, Los Angeles. Info from SMPTE Headquarters.

The Electro-Optics/Laser '77 Conference and Exposition will be held 25-27 October 1977 at the Anaheim Convention Center in Anaheim, Calif. The official conference of the Laser Institute of America, it will be sponsored by *EOSD Magazine.* Cooperating societies are the Society of Photographic Scientists and Engineers and the Society of Photo-Optical Instrumentation Engineers. The technical program will explore the latest in electrooptical and laser systems design and applications. Although particular emphasis will be placed on applications, research papers will also be presented. Among the 45 or so subject areas will be such subjects as Optical Data Processing; Optical Scanning and Wide Band Recording Techniques; Low Light Level Television Systems; High-Speed Photography; Satellite Imaging; Underwater Optics and Imaging; Image Interpretation and Evaluation