Abstracts from Other Journals

Design Considerations for an HDTV Production Mobile, Lou Montana, Tom Moorhead, and David George, *CBC Engineering Review,* p. 16, December 1990.

In the spring of 1989, Imagineering Ltd. was retained by Telesat Canada to assist in developing a new type of HDTV production mobile. Most of the existing HDTV mobiles were either of the single-camera style or had very limited multicamera and VTR capacity. The production mobile being constructed for Telesat would play an important role in a two-year trial of advanced television production and transmission techniques to be sponsored by Telesat. In conjunction with an uplink truck equipped with multistandard ATV transmission capability, it would provide originating facilities for experimentation with a variety of potential HDTV applications, and Telesat would also make HDTV large-screen projection systems available for display.

The experimental system, in whole or in part, would be offered to interested producers, entrepreneurs, broadcasters, and others with interest in ATV, and would help Canadians to become familiar with, and develop expertise in, this exciting and emerging technology. This article defines Imagineering's role in assisting with the development of the design concepts of the mobile and in providing detailed layout and system design, drawings, specifications, and management of the construction of the tractor and trailer unit, as well as necessary interior and support systems. Some new approaches to the design of production mobiles are also considered.

Antenna and Passive Networks Services, Gary Hayter, *CBC Engineering Review,* p. 68, December 1990.

Antenna and passive network systems in CBC range in size and complexity from small 5-W rebroadcast installations to systems handling more than 100 kW, with up to six transmitter systems combined in a single antenna. These systems cover the full VHF television band from channels 2 through 13, the FM band from 88 through 108 MHz, and the UHF television band. The CBC antenna systems represent virtually all types of antennas and passive networks used in the broadcasting industry. Thus CBC personnel must be knowledgeable in the various design philosophies of a wide range of manufacturers and the operational requirements in different areas of the country. Because of the country's large size and its sparsely populated areas, this requires more than 800 sites and 1500 antenna systems, including AM services. To maintain a staff large enough to provide continuous services to all these installations would be extremely expensive. This report discusses a method that has been implemented to reduce costs while maintaining a very high quality service to the general public. It involves an effective mix of antenna and passive networks specialists, regional engineering personnel, and private rigging and mechanical engineering companies.

Video Assist: Past, Present and Future, James B. Brandt, *American Cinematographer,* p. 93, June 1991.

Video technology is encroaching on traditional film production techniques from several directions. Video camera

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manufacturers are trying to capture the nebulous "film look" with improved CCD cameras and the highly touted HDTV, which, with its 35mm film aspect ratio and higher resolution, is an unquestioned attempt to emulate celluloid. Some exhibitors project that by the turn of the century scrambled satellite transmission to projection video theaters will be the preferred film distribution system and that cost considerations will drive acquisition methods toward a single medium – video. Advances and refinements in video assist and how these technologies will affect cinematographers are covered in the article.

Asiapower 2000: What's Next, Tekla S. Perry, *IEEE Spectrum,* p. 63, June 1991.

Significant advances in optoelectronics and information technology are likely to be made by several East Asian countries in the next decade. Others will concentrate on upgrading manufacturing capability and product design. For many, telecommunications technology will also play a central role, as will energy conservation and finding alternative energy sources for petroleum. And for some Asian countries, simply feeding and clothing their people will be the focus. But even here, technology will likely afford an important contribution. This article features reports and predictions on the technological status of Japan, South Korea, Taiwan, Singapore, Hong Kong, China, and India.

VTR Format Trends, Sheer and Chaskelon Research Inc., *International Broadcasting,* p. 19, April 1991.

Sheer and Chaskelon Research Inc. has completed its second European Television Marketplace (ETM-II) study, a biannual research project that covers European television systems, video production and post-production facilities, corporate in-house video facilities, and institutional facilities in 1990. The survey has over 600 respondents from all the countries of Western Europe, excluding Portugal. This report contains some of the relevant data gathered in the ETM-II study.

A Comparative Study of Two Working Practices in Feature Film Sound Editing, John Foster, *Image Technology,* p. 164, May 1991.

The author compares the traditional methods of editorial practice with that of a digital recording and editing system in a practical working exercise. A stage-by-stage comparison is made of the speed, efficiency, and costs of editing a sound-effects reel from the NorskFilm/Disney coproduction of *Shipwrecked.* The Digital Audio Research Soundstation II was selected for this study because of its easy-to-use console, portability, storage capacity, and channel assignment. A log kept of the time, costs, and problems incurred showed that using a digital workstation resulted in substantial time and cost savings in creating libraries, editing, track laying, and premixing. It also benefited the sound quality of the final result.

Errata

July 1991 Journal

Page 523, re Remembrances of Longtime SMPTE Members. The caption under the right-hand photograph was misspelled and should have read: Frederick M. Remley. His photograph is reprinted below.

Frederick M. Remley

Page 556, re New Insurance Program Offered to SMPTE Members. The telephone number of Seabury & Smith, Administrator of the SMPTE Group Insurance Program, was erroneously listed. The correct telephone number is (800) 424-9883.