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AUDIO engineering society, Inc.
Pacific Northwest Section

Mailing Address: 4522 Meridian Avenue North, #201 • Seattle WA 98103



November 1994 Meeting Notice

“Design of Active Studio Monitors”

Ari Varla, Chief Acoustical Engineer, Genelec (Finland)

Scott Berdell, President, QMI

DATE: Wednesday, November 2, 1994 - 7:30 PM

PLACE: Jack Straw Productions, 4261 Roosevelt Way N.E., Seattle

DIRECTIONS: From I-5, take the N.E. 45th street exit eastbound, toward the University of Washington. Turn south on Roosevelt, 3 blocks east of the freeway (one way street). Go south on Roosevelt for two blocks. Limited parking is available next to the JSP building, otherwise, park on the streets.

Mr. Varla and Mr. Berdell will discuss the design philosophy and applications of active audio reference monitors. Primary topics to be covered will be the benefits of active monitor design and the improved room/speaker interface.

Active monitors have many advantages, including:

- The ability to deliver a complete factory aligned system consisting of amplifiers, crossover electronics and speaker cabinets.
- Each drive unit in a multiway system can be powered by its own amplifier channel. In addition, that amplifier can be designed for a known load and direct coupled to that load.
- Crossover amplitude and phase responses can be optimized for each model.
- Drive unit and amplifier protection can be built-in, allowing for safe operation while maximizing system SPL capability.
- Active frequency response tailoring applied from the crossover.
- The opportunity to choose drive units on the basis of their sound quality regardless of sensitivity differences.

Room/speaker interface is improved by directivity control waveguides:

- Provides increased direct to reflected sound ratio.
- Increased effective drive unit efficiency and decreased distortion.
- Flat on and off axis response for wider usable listening area.
- Improved stereo imaging
- Reduced cabinet/drive unit interface diffraction.

NON-MEMBERS ARE WELCOME TO ATTEND 1994-95 Officers and Committee Members

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