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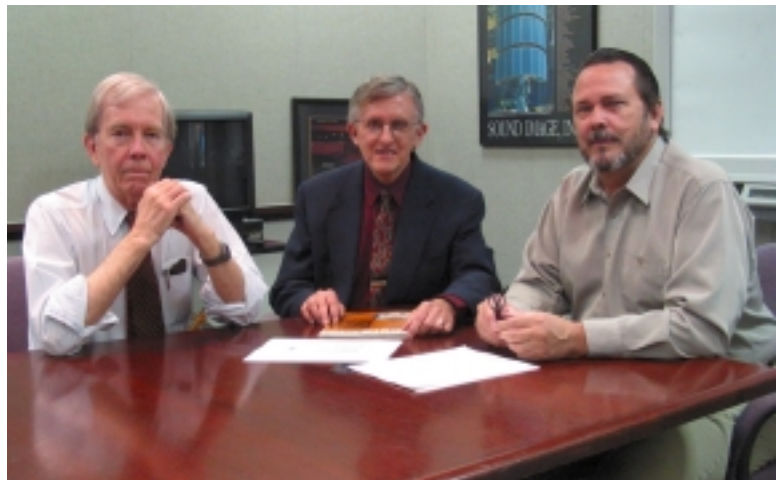
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AMPAS BESTOWS TWO AWARDS ON JBL ENGINEERS

Eargle, Keele, Engebretson, Werner and Gelow Recognized For Landmark Audio For Cinema Breakthroughs

LOS ANGELES, CA - MARCH 2, 2002 - Since 1931, the Academy of Motion Picture Arts and Sciences (A.M.P.A.S.®) has annually bestowed its Scientific and Technical Awards to the people who invent, design and build the equipment and technologies that impact the motion picture business. This year, JBL engineers have been honored by the Academy for technical achievements in loudspeaker technology. On March 2, 2002, John Eargle, Don Keele and Mark Engebretson received the Scientific and Engineering Award for the concept, design and engineering of the modern constant directivity, direct radiator style motion picture loudspeaker systems first used in the JBL 4675 system. A Technical Achievement Award was presented to Bernard Werner and William Gelow for the engineering and design of Filtered Array Technology™ and Screen Spreading Compensation™ as applied to motion picture loudspeaker systems, as employed in the current JBL ScreenArray® loudspeaker systems.

The basis of the work by Eargle, Keele and Engebretson was first presented by Engebretson and Eargle to the Audio Engineering Society at the 69th AES Convention in Los Angeles in May 1981 as "State of the Art Cinema Sound Reproduction Systems - Technology Advances and System Design Considerations." This paper



John Eargle, Don Keele and Mark Engebretson

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was later reprinted in the November 1982 SMPTE Journal. Their work noted that the advancements in motion picture production and trends toward more action and better sound were limited by the then-standard audio system, which was largely unimproved since the 1940's. They ascertained the current and future demands of cinema and applied current audio and electronic principles to design a new format for theatre sound systems. According to A.M.P.A.S.'s announcement of the award, "The work of John Eargle, Don Keele and Mark Engebretson has resulted in the over 20-year dominance of constant directivity, direct radiator bass style cinema loudspeaker systems." Currently Eargle is a Grammy award winning engineer and producer as well as Senior Director of Systems Engineering at JBL Professional; Engebretson is Director of Systems Engineering at JBL Professional; and Keele is Principal Engineer, Advanced Development Engineering, at the Harman/Becker Automotive Systems division of Harman International, parent company of JBL Professional.



Bernard Werner

JBL Professional's ScreenArray speakers, with several patents pending, bring Filtered Array Technology™ and Screen Spreading Compensation technologies to today's top cinema houses, including the Academy of Television Arts and Sciences Theatre and Grauman's Chinese Theatre. A.M.P.A.S. announced the award to ScreenArray designers Werner and Gelow by stating, "Employing both tapered line array and filtered line array technologies and unique passive and active filter networks, their work with cinema loudspeakers was both innovative and dedicated specifically to cinema applications." Werner continues to refine ScreenArray products at JBL Professional as Senior Systems Engineer. Gelow is currently Director of Engineering for speakers at Telex/EV.

“We are extremely proud of the accomplishments of these five individuals and are pleased that the Academy has honored them for their fine work,” stated Michael MacDonald, JBL President. “The total cinema experience needs not only realistic visuals – it must include true-to-life audio as well. The accomplishments of these five engineers and the many others who have supported their efforts make movie-going more enjoyable for everyone.”

Headquartered in Northridge, California, JBL Professional is the world’s leading designer, manufacturer, and marketer of professional loudspeakers for recording and broadcast, musician, cinema, touring sound, commercial sound and contracting applications. JBL Professional is part of the Harman International network of professional and consumer audio companies. For complete product and company information, go to the JBL Pro website at www.jblpro.com.

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