EXHIBITOR SEMINARS

116th CONVENTION & PRO AUDIO EXHIBITION
AUDIO ENGINEERING SOCIETY

Audio Facts for the Future

Berlin
Germany
08 - 11 May 2004

EXHIBITION • PAPERS • WORKSHOPS • TECHNICAL TOURS
TUTORIALS • EXHIBITOR SEMINARS • SPECIAL EVENTS

www.aes.org  116th@aes.org
SATURDAY, MAY 8

13:00 h–14:00 h Room Z5
ES1 Merging Technologies
SD and HD Video for Audio Player Recorder
Presenters: Maurice Engler, Ken Barnsley
Introducing VCube, a new video for audio player/recorder from Merging Technologies. It provides integration with all DAW systems plus a special integration with the Pyramix DAW system via Standard Ethernet. Sync to PAL, NTSC and all HDTV frame rates and capable of all picture aspect ratios and video formats including high-definition.

13:00 h–15:00 h Hall 4.1, Room 5730
ES2 Soundfield, Genelec, DTS, Steinberg
Mixing Music for Surround
This seminar will give a complete overview from recording for surround through to delivery formats via postproduction and monitoring.

14:00 h–15:00 h Room Z5
ES3 Omnia, a Telesis Company
Understanding the Processing Differences between DAB and DRM
Presenter: Frank Foti
Before considering processing for DAB/DRM, the technical differences between the two mediums need to be understood. The most obvious difference between the two is that DAB/DRM has a wider audio bandwidth of 20 kHz, as compared to FM-analog, which only offers 15 kHz response, due to a limitation of the FM-stereo system that we use, or AM, which normally offers response out to 5 kHz.

15:00 h–16:00 h Room Z5
ES4 Far—Fundamental Acoustic Research
Acoustic Design for Control Room
Presenters: Thomas Pierre, Xavier Lambrecht, Pierre Yves Wauthier
From neutral to proactive listening conditions, creating the sound field between your ears and the monitor is the goal. Our studies of reflection-free zone and early sound scattering lead us to avoid first-order reflection (i.e., desk) and create an enlarged, trusting listening zone. The result is a better perception of accurate transients and full spectrum of sounds.

16:00 h–17:00 h Room Z5
ES5 DPA Microphones
New Product Introductions
Presenters: Ruben Hensen, Ole Braested Sørensen, Morten Stev

16:00 h–18:00 h Hall 4.1, Room 5730
ES6 Soundfield, Genelec, DTS, Steinberg
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10:00 h–11:00 h Room Z5
ES7 Yamaha Corporation, mLAN Project
mLAN: Audio and MIDI Over FireWire
Presenters: Mike Overlin, John Strawn
This presentation will cover the technical fundamentals of mLAN and available products. Yamaha has helped establish a protocol known as mLAN for carrying audio samples and MIDI data over FireWire. We will discuss how products from various companies can work together seamlessly over mLAN.

10:00 h–12:00 h Hall 4.1, Room 5730
ES8 Soundfield, Genelec, DTS, Steinberg
Mixing Music for Surround
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11:00 h–12:00 h Room Z5
ES9 Mandozzi Elettronica
Modern Digital Radio Houses
Presenter: Gian Guolfin Bardola
The seminar presents Mandozzi's latest developments in digital routers and mixers and the way they can be assembled to form complete radio stations with various architectures. Special features are the system redundancy and the interoperability of the routers and mixers of a radio house but also of various radio houses.

12:00 h–13:00 h Room Z5
ES10 Trinnov Audio
Surround Recording Platform: High Spatial Resolution Multichannel Recording in Practice
Presenters: Remy Bruno, Arnaud Laborie, Sebastien Montoya
Trinnov Audio will present the Surround Recording Platform (SRP), a flexible and ergonomic digital processor dedicated to High Spatial Resolution (HSR) multichannel recording. This breakthrough system overcomes many limitations of today's multichannel microphones. With the greatest of ease, it simultaneously achieves: a wide listening area; accurate tones; perfect down-mix; optimal use of the center channel (and optionally LFE); harmonious integration of panned sources; true envelopment (phantom images over 360°); pin-point phantom images; efficient control of the reverberation; robustness to postprocessing. (Technical information in the paper: "High Spatial Resolution Multichannel Recording,” in Poster Session Z7 on Monday, May 10 at 12:30 h.).

11:00 h–17:00 h Room Z4
ES11 Far—Fundamental Acoustic Research
Acoustic Design for Control Room
Presenters: Xavier Lambrecht, Thomas Pierre, Pierre Yves Wauthier
From neutral to proactive listening conditions, creating the sound field between your ears and the monitor is the goal. Our studies of reflection-
free zone and early sound scattering lead us to avoid first-order reflection (i.e., desk) and create an enlarged trustful listening zone. The result is a better perception of accurate transients and full spectrum of sounds.

13:00 h-14:00 h  
ES12 SALZBRENNER STAGETEC MEDIAGROUP  
Compact and Versatile: The Concept of the New BR Radio OB Vans  
Presenters: Stefan Gnann, Alexander Nemes

13:00 h-15:00 h  
Hall 4.1, Room 5730  
ES13 SOUNDFIELD, GENELEC, DTS, STEINBERG  
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14:00 h-15:00 h  
ES14 AKG  
Topic 1: The Next Generation C 414  
Presenter: Norbert Sobol  
Topic 2: The Future Is Wireless  
Presenter: Mario Siokola

15:00 h-16:00 h  
ES15 CADAC ELECTRONICS  
Earth, Ground, and EMC  
Presenter: Tony Waldron  
The European EMC Directive has been in force since January 1996, yet a very high percentage of audio equipment manufacturers seem unwilling to change their design structures to fully meet the constraints of the directive. This reluctance seems to be due to a general misunderstanding of the terms Earth, Ground, and the fact that all electric currents flow in loops. This paper discusses the reasons why EMC design techniques improve signal integrity and reduce production/commissioning costs. It is based on seven years of practical EMC engineering from an audio perspective.

16:00 h-17:00 h  
ES16 FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS  
Audio Technology from Fraunhofer IIS and IDMT  
Presenters: Jürgen Herre, Manfred Lutzky, Thomas Sporer  
Topics to be discussed include: MP3 Surround, a new extension of a proven format; Ultra Low-Delay Audio Coding, an audio codec with less than 6 ms algorithmic delay; Authoring Tools for Wave Field Synthesis, and how to enter the world of perfect reconstruction of wave fields.

17:00 h-18:00 h  
ES17 SOUNDFIELD, GENELEC, DTS, STEINBERG  
Mixing Music for Surround  
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10:00 h-11:00 h  
Room Z5  
ES18 ARBOR AUDIOCOMMUNICATIONS  
LogDepot 4: Metadata, Research and Phonetic Search Modules  
Presenters: Theo Duijker, Ron Smits  
Arbor presents a complete new concept for logging and archive disclosure, based upon their LogDepot product. In the new concept, metadata logging is fully integrated into the system. This metadata ranges from RDS or DAB info via Mic Skimming and Program Information to current Speaker/language information. The metadata is web-based available to the user. The unique phonetic search module, which allows users to search in existing audio streams with a speed of almost 100,000 x real-time, is the missing link for every organization that has a large audio/video archive but not enough content information or enough manpower.

10:00 h-12:00 h  
Hall 4.1, Room 5730  
ES19 SOUNDFIELD, GENELEC, DTS, STEINBERG  
Mixing Music for Surround  
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11:00 h-12:00 h  
Room Z5  
ES20 MAYAH COMMUNICATIONS  
24/7-Audio via LAN, WAN and XDSL  
Presenters: Jörg Rimkus, Detlef Wiese  
Since audio transmission in broadcast applications has mainly been determined by synchronous networks, such as E1 and ISDN, new technology combined with network availability and QoS features result in more and more IP applications; even for 24/7 audio connections. The seminar will discuss pros and cons versus practical feasibility.

12:00 h-13:00 h  
Room Z5  
ES21 FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS  
Audio Technology from Fraunhofer IIS and IDMT  
Presenters: Jürgen Herre, Manfred Lutzky, Thomas Sporer  
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13:00 h-14:00 h  
Room Z5  
ES22 BRIDGEeco  
FireWire Audio for Break-Out Boxes  
Presenter: Klaus Buchheim  
BridgeCo’s Enhanced Breakout Box (BeBoB) provides multichannel audio, through 1394 connectivity between PCs/Macs and music equipment. PCI plug-in cards are eliminated, PCs/Macs, upgraded to creative devices, and wiring headaches are significantly reduced.
ES23 SOUNDFIELD, GENELEC, DTS, STEINBERG
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ES24 AUDIO PROCESSING TECHNOLOGY
Low Delay, Multichannel Audio Over E1 and IP Networks
Presenters: Hartmut Förster, Jon McClintock
APT manufactures a range of audio codecs using the apt-X compression algorithm. These codecs transport high quality, low-delay, multichannel (5.1) audio over IP and synchronous networks. Postproduction and broadcasters requiring real-time connectivity will benefit greatly from using the WorldNet SkyLink and WorldNet Oslo.

ES25 MANDOZZI ELETTRONICA (CH)
Modern Digital Radio Houses
Presenter: Gian Guolf Bardola
The seminar presents Mandozzi’s latest developments in digital routers and mixers and the way they can be assembled to form complete radio stations with various architectures. Special features are the system redundancy and the interoperability of the routers and mixers of a radio house but also of various radio houses.

ES26 DIGIGRAM
New Business Opportunities with Audio Networking
Presenter: Miranda van de Pol
Digigram explains how manufacturers, distributors, and system integrators can benefit from the digitalization of audio distribution systems to create new business opportunities in broadcast, fixed installations, live sound, and logging. Benefits of audio networking include: increased routing flexibility, reduced cable and installation costs, remote control capabilities, reduced TCO.

ES27 SOUNDFIELD, GENELEC, DTS, STEINBERG
Mixing Music for Surround
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TUESDAY, MAY 11

ES28 SOUNDFIELD, GENELEC, DTS, STEINBERG
Mixing Music for Surround
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ES29 SOUNDFIELD, GENELEC, DTS, STEINBERG
Mixing Music for Surround
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Tickets for the Exhibitor Seminars are free-of-charge and may be obtained from the Exhibitor’s stands.