UPCOMING EVENTS

AVnu Alliance members presented

TOP STORIES

Vol 13

December 2015

- at the first-ever Deterministic AVnu Alliance is currently preparing
- AVnu Alliance member HARMAN

<u>signal processors - BSS Audio</u> London BLU-805 and BLU-325

- Alliance members collaborated on 138th AES Convention in New York City
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LETTER FROM THE PRESIDENT

(Anaheim, CA)

AVnu Alliance Education Training Day

Integrated Systems Europe

NAMM Show 2016

members and 13 Adopter members along with even more pending memberships that we will announce in the very near future. We expect to see this growth continue as we develop the test and certification for the growing markets we support.

AVnu Alliance members and supporters.

Over the past year, AVnu Alliance has sponsored two successful technical conferences: The San ernet Forum Jose TSNA Conference in April and the

First of all, on behalf of myself and the entire board, I would like to extend Seasons Greetings to

This has been a year for growth within the AVnu Alliance. We ended the year with 72 Promoter

Deterministic Ethernet Forum in Vienna, Austria in October. These events garnered such a great amount of interest that we are already planning the tracks for 2016. We are currently planning the second-annual Conference on TSNA for the week of April 11, 2016 in San Diego, we will announce AVnu Alliance Chairman, Kevin Stanton presents at

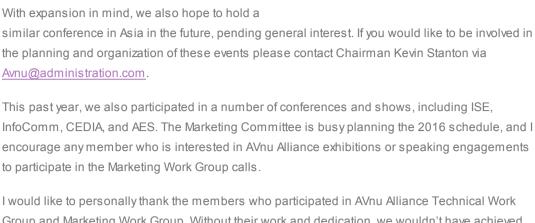
registration information in the coming months. With expansion in mind, we also hope to hold a the planning and organization of these events please contact Chairman Kevin Stanton via Avnu@administration.com. This past year, we also participated in a number of conferences and shows, including ISE, to participate in the Marketing Work Group calls. I would like to personally thank the members who participated in AVnu Alliance Technical Work Group and Marketing Work Group. Without their work and dedication, we wouldn't have achieved such growth this past year. I would also like to thank the other members of the Board for their

support.

Industrial Webinar

these systems are built?

Speaking Engagements



Deterministic Ethernet Forum

- Gary Stuebing, AVnu Alliance president HERE'S WHAT WE'VE BEEN UP TO

It has been a successful year, and I look forward to an even better year in 2016!

In September, AVnu Alliance Industrial segment hosted a webinar with Control Engineering Magazine titled: The Coming Changes to Standard Ethernet: Industrial IoT Convergence with

Alliance segment leaders Paul Didier, Cisco, Dan Sexton, General Electric and Todd Walter, National Instruments tackle commonly asked questions regarding Time Sensitive Networking (TSN) and its place within control systems. The leaders answered questions like, how can TSN enable seamless convergence within control networks? And, how is TSN going to impact the way

During the webinar, the presenters also announced the creation of the Industrial Advisory Council and invited all attendees to join.

training session focused on the importance of

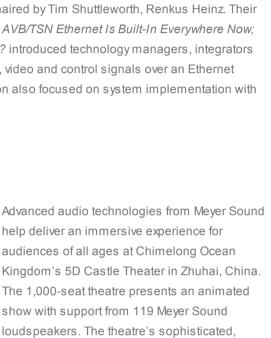
and video systems and revealed that the root of

Segment Chair.

AES Convention

CEDIA

AVnu Alliance members from Meyer Sound, Pivitec, Coveloz and HARMAN collaborated on a panel during the Networked Audio Track of the 139th International AES Convention chaired by Tim Shuttleworth, Renkus Heinz. Their presentation, Networked Audio: AVB/TSN Ethernet Is Built-In Everywhere Now; How Do You Make the Most of It? introduced technology managers, integrators and specifiers to the basics of distributing audio, video and control signals over an Ethernet network in ready-to-play fashion. The presentation also focused on system implementation with TSN standards. Case Studies



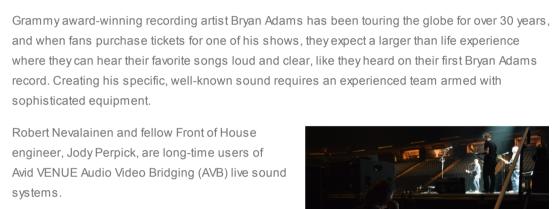
multichannel presentation includes 26 input

configurations connected to the D-Mitri® digital

channels and various output channel

Greg Schlechter presents at CEDIA 2015

Scene from Kaka's Great Adventure show at Chimelong Ocean Kingdom



existing systems with dual VENUE | S3L-X

systems once they realized that the added

in smarter manufacturing processes.

NAMM Show 2016

Integrated Systems

Europe

networking hour open to the public.

opportunities with ISE attendees.

AVnu Alliance in the News

Upcoming Events for AVnu Alliance

AVB Tours with Bryan Adams

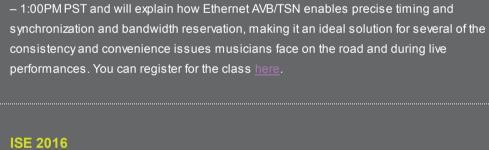
As the team of mixing engineers prepared for the most recent Adams Reckless 30th Anniversary European tour, they decided to upgrade their Robert Nevalainen conducting sound check on the Bryan Adams tour functionality and I/O sharing on the AVB network could provide the streamlined setup and workflows they needed. The entire system consists of two AVID AVB S3L-X systems, four Stage 16 remote I/O boxes, and two Apple Mac Mini computers, with an Apple Mac Mini placed at each station recording or virtual sound checks—everything required for the FOH and MON mixing positions. The key to making this system setup incredibly simple is the



Automation and information, Rockwell Automation has a long history of hnological innovation marked with milestones in industrial control systems and products Customers in over 80 countries worldwide utilize their constantly evolving products for engagement

Rockwell As the world's largest company dedicated to industrial automation

performance at standards upheld by the AVnu Alliance certification program.



and how to make the most of AVB/TSN. The second session will focus on Network

examples. After the education session wraps, AVnu Alliance will host a cocktail

a number of speaking engagements throughout the show to share education

Topology and will share end-user installation and configuration considerations. The final segment will cover TSN AV Solutions, complete with installation and system architecture

To build on the momentum of the training day, AVnu Alliance members will participate in

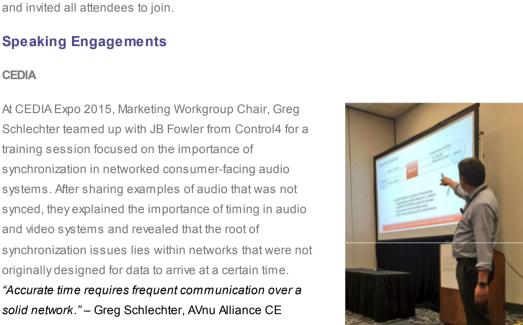
Richard Bugg, Digital Products Solutions Architect at Meyer Sound will present the Kaka's

Graeme Harrison, EVP of Marketing for Biamp will present three separate times at ISE. First he will present an ISE FlashTrack session on "Why should AV care about IoT" on February 9, 2016 at 11:00AM. Later that day he will present "UCC and Huddle Spaces" in

Great Adventure case study alongside Leo Wagner of Kraftwerk as a part of the ISE Theaters education sessions. Their presentation will take place Thursday, February 11, 2016 at 11:30 AM. Richard Bugg will also present an InfoComm MasterClass at ISE on

This year, before ISE 2016 gets underway, AVnu Alliance will host a 'Next Generation AV Network

Three presenters will begin with Principles of Digital Networking to give attendees background information on the evolution of standard Ethernet



the Control System. Nearly 300 attendees joined in to hear AVnu

Pivitec to the Extreme Networks AVnu-certified Summit X440 and X460 switches. "The fact that AVB data shares the same network infrastructure as the control data is proof that AVB and other common network tasks can coexist, even on heavily utilized networks." – Leo Wagner

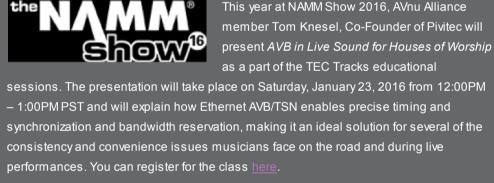
infrastructure manager for Wels, Austria-based Kraftwerk Living Technologies.

electronics developed by Weigl, including the AVB end station which is implemented with the XMOS chipset and AVnu-certified AVB Reference Design and the system connects via a MADI output from

audio platform via one of the world's largest AVB networks. The show also uses the in-seat

AVB interconnectivity since it avoids both engineered network switch and routing issues. Moreover, if any cable fails to withstand the unpredictable touring atmosphere, they are protected by a ring network. **New Members**

We were thrilled to add two new industry leaders to our membership roster. Calnex and Rockwell are innovative leaders in the industrial and automotive markets and will bring decades of expertise



"Understanding AVB/TSN and Its Advantages" as a part of the ISE Audio Solutions Theater on February 10, 2016 at 11:30 AM. Justin O'Connor, Product Manager of Audio Products for Biamp, will present in the Show Floor Theatre on "Exploring Networked Audio Protocols: AVB, CobraNet & Dante" in the Audio Solutions Theatre on Tuesday, February 9, 2016 at 2:30 PM. Sally Blank from Biamp will also present as a part of the ISE Theatre Program in the Unified Communications Theatre on February 10, 2016 at 2:00PM. She will cover 'Identifying and Preparing for Industry Trends'.

the ISE Unified Communications Theatre at 2:30 PM. He will then present

Register here to attend the free AVnu Training Day on February 8.

accommodate many IoT applications as we saw in lab tests at GE. In addition to IoT applications in industry, TSN is being looked at for use in automobiles." National Instruments Executive Vice President Eric Starkloff chimed in with, "There's a strong desire for TSN to be used in the automotive space because companies want to use IP-based controls for automobiles." On the Pro AV side, several publications shared details from the recent AVB/TSN

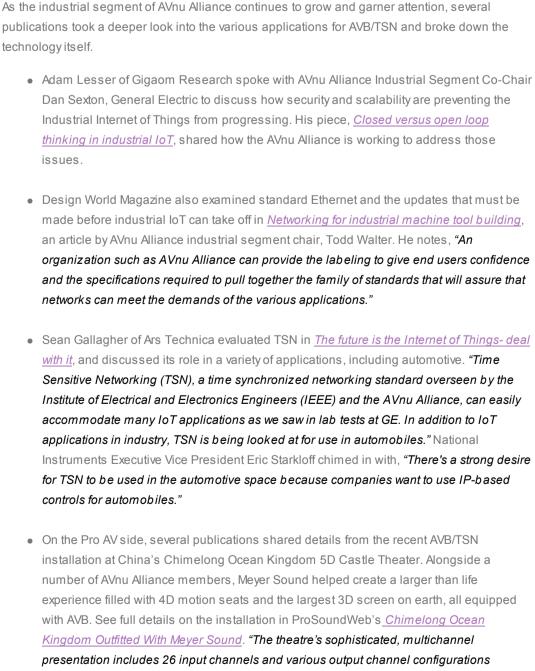
connected to the D-Mitri digital audio platform via one of the world's largest AVB (Audio Video Bridging) networks." When asked about AVB's performance and installation process at Chimelong, Leo Wagner, infrastructure manager for Wels, Austria-based Kraftwerk Living Technologies said, "Use of the new AVB audio networking standard greatly simplified installation, while affording greater flexibility in developing the audio effects."

 Following the 139th International AES Convention, Sports Video Group Europe's editor David Davies spoke with AVnu Alliance's Marketing Workgroup Chair, Greg Schlechter about AVB Certification momentum and real-world deployments. Schlechter notes,

"Building an ecosystem is the main purpose of the certification program."

Member News and Recognition HAPMAN Soundwoh London RI II 205 and BLU-325 are AVnu-certified: HARMAN BSS Audio Soundweb London BLU-325 Congrats to HARMAN on reaching AVnu Certification for their Soundweb London BLU-805 and BLU-325. HARMAN shared the

 AVID is now shipping the next generation of their AVID VENUE | S6L live sound system with the industry's most advanced live sound engine that allows audio professionals to handle the largest and most complex tours. VENUE | S6L is a fully modular, scalable live



news at the 139th International Convention of the Audio Engineering Society (AES), both the BLU-805 and BLU-325 devices offer configurable inputs and outputs, compatibility with all Soundweb London input and output card options, logic processing capability, the 256channel BLU link bus and GPIO. Each offers up to 16 inputs and outputs, configurable in

banks of four. Full details can be found here.

data pipeline and aims to modernize and equip the connected car with flexible, scalable and secure in-vehicle networking technology while addressing an increased need for highly reliable communication in the vehicle. Full details can found here.

 HARMAN made an open source software contribution to the Open AVB project to help drive the adoption of Ethernet AVB/TSN in automotive, consumer, pro audio/video and industrial markets. HARMAN's contribution includes major enhancements to the AVTP

sound mixing system that delivers bestin-class functionality for a range of live sound mixing applications, including front-of-house, monitor, broadcast, Next generation AVID VENUE | S6L theater, and more. Get a look "under the hood" in Derk Hagedorn's blog for Avid here.

Join our communities: Connect with AVnu Alliance to stay up to date on all Alliance

announcements, including where we're going and what we're doing via our Twitter account (@AVnu_Alliance). You're also encouraged to join the conversation on our LinkedIn page.

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