



INFORMATION ON NEXT MEETING

DIGITAL MIXING CONSOLES IN PRACTICE

Thursday 30th of November 2000, at 17h00 at Studer Professional Audio AG, Althardstrasse 30, Regensdorf

SPEAKERS:	Stefan Ledergerber	Studer Professional Audio AG, Regensdorf
	Tibor Tamas	Studer Professional Audio AG, Regensdorf
	Andrew Hingley	Sony Broadcast & Professional Europe, Basingstoke, UK
	John East	Sony Oxford Development Team, Oxford, UK
ORGANIZER:	Markus Erne	Scopein Research, Aarau
LANGUAGES:	German and English	

We are pleased to announce an extra AES Swiss Section Meeting not previously announced in the annual programme to be held on the 30th of November 2000 at 17h00. This will be the last meeting of the year.

Programme:

The Swiss Section will for the first time organize an AES-meeting where the participants will get hands-on demos and detailed technical information on two different products in two different places. The following two products will be presented in detail:

Studer D950 digital mixing console
Sony DMX-R100 digital mixing console

Although both consoles are based on digital technology, they not only differ in their price-tag and the available features but also in their target-market and user-interfaces.

It will be the goal of this meeting to provide the AES-members with as much information and hands-on experience as possible in order to become familiar with two latest-generation digital consoles. Both consoles are targeted at different markets and therefore at different customers but they nevertheless have some similarities in terms of technology.

The participants will be divided into groups to facilitate the demos and after each presentation, the groups will be switched so as to be able to listen to the second presentation. A short walk of 5 minutes from Studer Professional Audio AG to the Trend-Hotel where J&C Intersonic has installed the Sony DMX-R100 console (in case of bad weather, a shuttle bus will be provided) will give the participants a chance to have a chat and get some fresh air.

Stefan Ledergerber and Tibor Tamas of Studer Professional Audio AG will first talk about the difference between small-scale and large scale digital consoles before presenting the feature-set of the D950 console. The reliability, the configurability, the flexibility and the sound quality of a digital console will be discussed before a demo will start,

showing the features of the console, including the "Virtual Surround Panning" capabilities of the console.

In parallel, Andrew Hingley and John East will present the Sony DMX-R100 console at the Trend-Hotel. They will focus on the target applications of this new console and present the user interface. Technical details will be provided and a demo will enable the participants to become familiar with the console design and its features.

After the meeting, participants may take part in the dinner at the Trend Hotel.

Biographical Notes

Stefan Ledergerber was born 1970 in Wängi (TG). Being a member of family of musicians, he discovered from an early age the beauty of music and learned to play the flute and he continues to play classical music. After his "Matura", he worked at Studer in the product support department for the hard-disk-recorder Dyaxis. He then started his studies in electrical engineering at the ETH-Zürich where he wrote a diploma thesis on the DSP-core of the D950 digital mixing console. During his studies he went to Canada for 1 year and worked at Studer Canada in the manufacturing department for analog mixing consoles.

Stefan is project engineer for digital mixing consoles at Studer Professional Audio and during his spare time, he is still active in his recording studio for classical music. His personal and professional interest is surround-sound.

Tibor Tamas was born in 1961 in Zürich. After his apprenticeship in electronics at Studer, he worked on the development of analog mixing consoles 963, 970 and the digitally controlled console 990. In 1991 he joined the product support department of Studer where he was involved in the worldwide distribution of Studer mixing consoles. He visited a lot of trade-shows, customers and was involved in the training of international customers. With the increasing development of digital consoles, Tibor was more and more involved in the product support of the D940, D941 and the D950 digital consoles. Based on his

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experience with products and customer support, he became a sales engineer for digital mixing consoles. Tibor not only plays the guitar but he additionally arranges and records his own songs, including the setting of music to children's fairy tales.

Andrew Hingley has been a Senior Product Manager at Sony Broadcast and Professional Europe since 1990, working in the professional audio marketing department and he is primarily involved with audio mixing consoles and multi-track recorders. Previously, he worked for Trident Audio Developments as a development engineer on the Trident DIAN and Vector mixing consoles. He also spent four years as a professional musician and has a B.Sc Hons in Engineering Science (Electronics) from Warwick University, UK.

John East was Educated in Audio Visual Techniques for Education where he specialized in sound. Although not reflected in his formal qualifications, he has designed a great deal of analogue electronics for professional audio. John has made a living as a musician as well as a graphic designer and technical illustrator too. In 1978 he joined Solid State Logic to set up their test department. During his 10 years with SSL, as well as carrying out electronic design heading a number of R&D projects, he was responsible for the front panel graphics and layouts for all SSL products. In 1988 John became a founder member of Oxford Digital Ltd, to be involved with a new generation of digital audio mixing consoles, designed in close collaboration with SONY Japan. He worked as a member of the team responsible for the product specification and ergonomic approach to the user interface of the OXF-R3, or "Oxford" console. His other technical role involved the design of all aspects of the control surface for that unit, and other products including the DMX-R100.

REPORT ON PREVIOUS MEETING

Localization of Reflections in Auditoriums & Visit of most recent facilities at RSR

Thursday 5th of October 2000, at 17h30 at Radio Suisse Romande, 40 Av. du Temple, 1010 Lausanne

SPEAKERS: Eric van Lancker, LEMA-EPFL

REPORTER: Walter Koeller, AAB - J. Stryjenski & H. Monti SA

About 20 participants gathered for the October Swiss Section Meeting at the French-speaking Swiss National Radio in Lausanne for a most interesting presentation by Eric van Lancker from LEMA-EPFL on the localization of reflections.

After a historical overview of the different methods that enable the direction of a wave front to be established using a microphone array, Eric Van Lancker clearly explained the basic theory behind spatial sound intensity measurements. The applications implemented range from the passive detection of random sources such as military aircraft, localization of avalanches and the determination of direction of a wave front in order to attenuate it using active control.

A further application, using a known sound source, is the identification of the directions of the various reflections in a hall. Eric then presented his latest prototype designed for this particular application. It is made up of eight microphones positioned at the apexes of a 30cm cube. The analysis of the origin of the reflection is based on a cross-correlation of microphone signals taken two at a time. A simplified real-time analysis enabled different localization trials to be carried out in the radio studio where the presentation was being made. Numerous questions sustained and prolonged and interesting debate. The participants then had the opportunity to visit the latest facilities at the "Radio Suisse Romande" while others took advantage of pursuing the evening discussion around some food and wine.

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