AES SWISS SECTION NEWSLETTER

144th Issue

INFORMATION ON NEXT MEETING

The AES and VDT present a Special Event:
"An evening with John Storyk"

Tuesday, the 18th of June 2019, 17h00

Aula at the Technische Berufsschule Zürich (TBZ)
Ausstellungsstrasse 70, 8090 Zürich

SPEAKER: John Storyk, WSDG

ORGANISER: Dirk Noy, WSDG

LANGUAGE: English

PROGRAMME AND SUBSCRIPTION

The doors will open at 17h00.

The closing date for subscription is **June 10**.

Please subscribe as usual at the Swiss AES web address: www.swissaes.org (under programme).

Do not forget to specify the number of attendees for the meeting as well as for the optional dinner (at your own expenses).

We are looking forward to seeing you at this very special event!

BIOGRAPHY

John Storyk, registered architect and acoustician, is a founding partner of WSDG.

He has provided design and construction supervision services for the professional audio and video recording community since the 1969 design of Jimi Hendrix's Electric Lady Studios in New York City.

John Storyk received his architectural studies from Princeton and Columbia Universities. As an independent designer, engineer and principal designer of WSDG he has been responsible for over 3500 world-class audio/video production facilities, including studios, radio stations, video suites, entertainment clubs and theaters.

His work includes private studios for Whitney Houston, Bob Marley, Ace Frehley, Russ Freeman, Taylor Dayne's producer Rick Wake; Johnny Yuma Recording in L.A.; Greenway; C & C Music's Robert Clavicles; Oven Studios (Alicia Keys); Roc the Mic (J-Z) and others.

Professional audio video installations include Soundshop, Nashville; Crawford Post, Atlanta; Talking House (San Francisco); screening rooms for NYC's Planet Hollywood and Technicolor; conference facilities for Mercury (Polygram), EMI, CEMEX, Sumitoma; large scale educational and performance facilities for Full Sail/Platinum Post (Orlando), Ex'Pression Center for New Media (San Francisco), and Jazz at Lincoln Center / XM Radio (New York city).

He is a member of the American Institute of Architects (AIA), Acoustical Society of America, Audio Engineering Society (AES) and a frequent contributor to AES convention papers and professional industry periodicals.

John is a frequent lecturer at schools throughout the world. He has established courses in acoustics at both Full Sail and Ex'pression Center for the Media Arts. He is an adjunct professor of Acoustics and Studio Design at Berklee College of Music, Boston.

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REPORT ON PREVIOUS MEETING

UHD-1 full-IP OB-van in operation

Thursday, the 25th of April 2019
tpc/SRF, Fernsehstrasse 1-4, Zurich

SPEAKERS: Adrian Hilber - tpc
                   Stefan Ledergerber - tpc consultant

REPORTER: Gabriel Leuzinger

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About 30 members of AES including some guests of VdT gathered at SRF's main location in Zurich on the sunny evening of the 25th of April 2019. The event first started with the theoretical part in the large meeting room on the top floor of SRF's office building.

In his presentation Stefan Ledergerber built a bridge between small IP systems for audio only and big IP systems usually used for video together with audio. He explained some major differences between video and audio requirements. And he also stressed the evolving IP-standards and that marketing is often ahead of development and real, tested products. The legacy synchronization mechanisms were compared to the PTP principle, which distributes absolute time. Stefan showed an overview of the very important SMPTE 2110 standard used in the broadcast industry, which consists of AES67 for the audio part. He explained the latencies in IP networks and their causes. Eventually he cleaned up the myths about "slow" networks.

In the following presentation Adrian Hilber provided insights into the project of UHD-1. A lot of human and technical resources were involved in this challenging project. During the time the OB van was planned, none of the actual SMPTE 2110 standards were available. And even today, no COTS (commercial off-the-shelf) IT equipment is able to fulfill the demanding requirements. That means for example high performance data center switches in redundant setup are used. Despite all the problems, he would decide again for a full IP implementation, Adrian answered positively. The new OB-van is now running reliable and pays back the investment very quickly.

After the presentations the group moved over to the tpc garage for the practical demonstration of UHD-1. On the way to the garage, they stopped shortly in front of the new Metechno-building. This is another large ongoing project were the experience gained during the UHD-1 project is very welcomed. The event finished with demonstrations and explanations inside of UHD-1. Afterwards many of the group continued discussions in a nearby restaurant.

AES Swiss Section would like to thank both speakers for their very interesting presentations. Many thanks also to Alfio Di Fazio and tpc ag for the reservation of the OB van that evening, which had to fit with the tight booking schedule of UHD-1.

The presentations can be downloaded from https://www.swissaes.org/ under programme/download material.