



AES

SWISS SECTION NEWSLETTER

96th Issue

INFORMATION ON NEXT MEETING

AES Swiss Section General Meeting

Thursday, 14th of October 2004, 17h00 at Relec SA Premises
ZI Petits Champs 11 (a+b) – 1400 Yverdon
(see attached page for map and transportation arrangements)

KEYNOTE SPEAKER: Tony Waldron (Cadac Engineering Industries)

ORGANIZERS: Gisèle Clark
Terry Nelson
Alain Roux

LANGUAGE: English

Schedule

17h00 - 18h00
Swiss Section AGM and election of new committee

18h15 - 19h00
Educational Section Report and Presentation of CFMS & ZEPRA programmes

19h00 - 19h30
Aperitif

19h30 - 21h00
Keynote presentation by Tony Waldron - Head of Engineering - Cadac Engineering UK
Questions & Answers

21h00 - 23h00
Food and Music

Aperitif, buffet dinner and Entertainment are sponsored by RELEC SA, CFMS, ZEPRA and the AES Swiss Section Educational Committee.

REPORT ON PREVIOUS MEETING

*Measurement of the speech intelligibility
of sound systems*

(Joint meeting with SGA/SSA)

Thursday, 10th of May 2004 at EMPA-Akademie, Dübendorf

SPEAKERS: Kurt Eggenschwiler, Vergleichmessungen
David Norman, STIPA

REPORTER: Walter Köller

More than 50 participants answered the invitation of the AES and the SSA (Swiss Acoustical Society) to sum up the techniques of acoustics measurements and in particular the speech intelligibility measurement of sound systems.

In the first conference, David Norman made the historic of the measure of the speech intelligibility measurement, starting with the methods with listeners. He described the principle of the measure of the STI (Speech Transmission Index), complex and long to bring into play, and the RASTI measurement, that the portable device of the Danish constructor made simpler but less steady. The numeric treatment of the signal accessible to all, permitted the assessment of the STI from the impulse response, notably by the MLS measure. This technique, more reliable, loses the advantage of the portable device because of the necessity to synchronize sender and receiver. The technique of the STIPA lately developed by the TNO is a new compromise. Although it doesn't use the complete set of modulation combinations of the STI, the STIPA is based on three times more combination than the RASTI. The advantage is that bring into play of the STIPA is easy again: the signal is recorded on a CD and the algorithm of measure can be integrated in a mobile numeric sound level meter. In the second conference, Kurt Eggenschwiller retailed the comparison of the measurements that several members of the SSA did in one of the

EMPA room with a sound reinforcement system. These measures included, according to the teams, the reverberation (EDT, T20, T30), the frequency response, the speech intelligibility (STI, RASTI, STIPA...) and the acoustic criteria (C80, D50...). On the whole, after having eliminated the obviously incorrect measurements, the dispersion of the results is of the order of size of the uncertainty described in the norms. It is to note that the measurement of the speech intelligibility with an important background noise is the one that presents the biggest dispersion. The encouraging conclusion is that there was not a meaningful difference between the different measurement facilities used. The less encouraging conclusion is that it will be necessary to improve the formation to guarantee the reliability of the measurements.

Two short presentations of facilities permitting to measure the STIPA finished the meeting before about twenty participants met to appreciate, between friends, the excellent dinner organized in the local of the EMPA Akademie.



Dear Colleagues and AES Members,

Please find attached our 96th Section Newsletter, as well as an invitation to visit the Light & Sound Show in Lucerne on 16-18 October, on which the AES Swiss Section will have a booth.

As you will read in our Newsletter, the AGM will take place in the premises of one of the sponsors for this event, RELEC SA.

On the back of this note, a road map indicates RELEC's location. Parking is not a problem in the Industrial Park.

For those who will be coming by train, a shuttle bus will be serving the following train arrivals from Yverdon Station :

Shift 1 : 15h56

Shift 2 : 16h11 & 16h18

Shift 3 : 16h36 & 16h40

Return - for your information, the last trains from Yverdon range from 22h32 – 22h48 - 22h51 – 23h12 – 23h32 – 23h48

We shall arrange lifts by cars from 22h15 to 23h35 in order to match these departures.

Please be so kind as to confirm your participation by either the attached card, or by email to :

grc@aes.org

We look forward to seeing you on October 14th !

*For radio guiding, last minute pickup or assistance,
please note the AGM-Day Hotlines*

Terry Nelson : 079/241 19 69

Gisele Clark : 079/776 43 17