



INFORMATION ON NEXT MEETING

## *The New audio DSP: theory and applications*

*Haute Ecole d'Ingénierie et de Gestion du canton de Vaud (HEIG-VD),  
Auditorium E 03, Route de Cheseaux 1, 1400 Yverdon*

Thursday, 4<sup>th</sup> of December 2008, 17h30-20h00

**SPEAKERS:** Prof. Jacques Hufschmid, HEIG-VD  
Jérôme Kursner, Danielo Castelo da Silva, HEIG-VD

**ORGANIZER:** Véronique Adam

**LANGUAGE:** French

DSP (Digital Signal Processor) is used in the audio domain for many years. Some different manufacturers propose a choice of various models, each of them showing advantages and disadvantages related to their internal structure and data format. Recently, specialized DSP for the treatment of digital audio signals have emerged. They include or not AD and DA converters.

In a first step, the Professor Jacques Hufschmid will present the main differences between conventional and audio DSP. After describing some existing models, he will show how to use them in a practical way to deal with audio streams in terms of hardware and software. In a second time, two HEIG-VD students will present their diploma work, using DSP to process audio signals. Jérôme Kursner will speak first about the way to create from a stereo source, a 5.1 configuration in a motor vehicle with an audio DSP. Daniel Castelo da Silva will show then how to implement MPEG1 audio using a DSP, complying with the norm ISO/CEI 11172.

The meeting will end with a brief presentation of the School of Engineering and the Audio Laboratory. The attendees will be then invited to make some practical experiments, including the use of DSP to process audio signals.

**Prof. Jacques Hufschmid:** He received in 1976 a Master degree in Electrical Engineering from the Swiss Federal Institute of Technology in Lausanne (EPFL). He worked then at the same time as a electronic store manager and as a research assistant at the EPFL. In 1983 he joined the School of Engineering-Vaud to enter the teaching profession (electronics, electrotechnics, signal processing and electroacoustics domains). He became Professor in 1992. He teaches now various fields as circuit theory, analogue electronics, signal processing, electroacoustics, acoustics, digital audio, digital and analogue video, image processing.

**Schedule:**

Doors open and refreshments:	17h30
Start of presentations:	18h00
Lab. visit and DSP experiments:	19h00
End:	19h45
Optional dinner:	20h00

A car park is at disposal (2CHF/day). The ticket machine is located inside the building. For more details, please visit the website [www.heig-vd.ch](http://www.heig-vd.ch)

The Swiss AES wishes to thank warmly the HEIG audio laboratory and the Prof. Hufschmid for their welcome and kind collaboration.

## REPORT ON PREVIOUS MEETING

# *The Studer Call Management System and General Meeting*

Thursday, 4<sup>th</sup> of September 2008, 1800h – 2000h  
at Studer Professional Audio GmbH in Regensdorf

**SPEAKERS:** Richard Murer, Murer Systems GmbH  
Wolfgang Voigt, Studer Professional Audio GmbH

**REPORTER:** Attila Karamustafaoglu

### General Meeting

Only about 7 AES Members attended the general meeting. Due to this low attendance, it was held rather short.

First, the membership and financial situations were presented. With 181 current members, the section had its highest membership count in more than 6 years.

The financial situation is tight, since the headquarters' officers are reluctant to assign similar budgets to the sections as before. It has been decided that a representative of the committee will talk to the AES governors about this.

After these reports, the new committee was to be elected. Joël Godel had announced beforehand that he wants to withdraw from the committee. No replacing candidates have been nominated for him so the remaining 7 committee members were to be elected. The present members in unison voted for the current members to be re-elected. The committee wants to thank for the confidence and also wants to thank Joël Godel for his appreciated services in the committee. As an interim candidate, soon after, Mr. Thomas Wochner volunteered to participate in the committee as a trial.

Later in a separate committee meeting, the new committee agreed on following functions:

Attila Karamustafaoglu – chairman  
Terry Nelson – vice chairman  
Gabriel Leuzinger – treasurer  
Véronique Adam – secretary  
Patrick Boehm – committee member  
David Norman – committee member  
Christoph Jäger – committee member  
Thomas Wochner – committee member ad interim

### Presentation

About 15 visitors joined the regular meeting thereafter. Wolfgang Voigt started with a product overview with its features. Special to this product is the seamless integration of telephone applications into a radio broadcast environment. Later on, Richard Murer explained the technical background of the system. A hands on demonstration in Studer's OnAir demo studio concluded the meeting.

Please find the presentation held also on our website:

[www.swissaes.org/downloads/material\\_080904.zip](http://www.swissaes.org/downloads/material_080904.zip)

After the meeting, a part of the group continued the discussions at the usual dinner after the meeting which was held at the Restaurant Feldschlösschen nearby.