



INFORMATION ON NEXT MEETING

***Frequency allocation for DVB-T  
- Wireless audio applications in danger***

*tpc, Sport Panorama Studio, Fernsehstrasse 1-4, 8052 Zürich*

Wednesday, 17<sup>th</sup> of January 2007, 1730h-1945h, Doors open 1700h

**SPEAKERS:** Matthias Fehr, Sennheiser Germany  
Thomas Saner, SRG SSR idée suisse  
Roger Hess, TV Production Centre (tpc) Zürich AG

**ORGANISER:** David Norman

**LANGUAGE:** English or German

With the changeover to digital television the frequency spectrum will change considerably. There is a possibility that the current frequencies allotted to wireless microphones or other wireless audio devices will no longer be available. The question all professional users need to ask is, will their equipment be usable in the future? Unfortunately the groups who are currently planning the new frequency spectrum allocations are not familiar with the needs of wireless microphones (number of channels in use, required spectrum resources, etc.)

It is vital that these needs are communicated and that the needs of the users are heard in current and future European frequency planning discussions. These discussions are currently going on and the users of wireless microphones must communicate their needs to the responsible authorities in Switzerland.

The companies, AKG Acoustics GmbH, Beyerdynamic GmbH, Sennheiser electronic and Shure have founded a common technical

working group in Germany. The work of this group will be presented.

Agenda for the meeting:

1. Description of the present and future uses of wireless microphones
2. Required frequencies and spectrum for the future.
3. Understanding the requirements for improved distribution of multimedia contents
4. Present and future trends regarding the allocation of frequencies for wireless microphones.
5. Possible strategies regarding the changes in frequency spectrum allocations and the possible technical changes required.
6. Cooperation with international Groups.

We are grateful to Sennheiser for initiating this very important meeting. Current users of wireless systems are invited to take part and to work with us and with the manufacturers of wireless equipment to get the audio community heard.

Matthias Fehr was born 1955 in Dresden, Germany and received his degrees in electronic engineering in 1985, in microprocessor technology in 1989 and in technical cybernetics & automation in 1990. From 1975 to 1984 he was responsible for design and service of wireless based company information systems. Until 1990 he was responsible for electronically and optical scientific toolbuilding at the "Technische Hochschule Ilmenau". Until 2001 he was head of an airband radio designing group. Since 2001 he has been working for Sennheiser research group as RF-systems coordinator. His main tasks are RF projects consulting and supporting design engineers, radio frequency design platform strategies and the work in international standardization groups. Since 2006 he is the Chairman of WG "Professional Microphones" of the DKE German Commission for Electrical, Electronic and Information Technologies of DIN and VDE.

## REPORT ON PREVIOUS MEETING

# *The Studer Revox Museum*

Monday, 4<sup>th</sup> of December at Studer Professional Audio GmbH, Regensdorf

**SPEAKERS:** Paul Zwicky, former R&D Director of Studer Revox AG  
Erhard Häberling, Chairman of Studer Revox Museumsverein

**REPORTER:** Attila Karamustafaoglu

About 45 visitors made their way on this evening to this event. First, Erhard Häberling explained a bit his background and how the Studer Revox Museum evolved by joining the interests of various Studer and Revox enthusiasts. Having Bruno Hochstrasser in the board of the Museumsverein, it became possible to allocate two large rooms in the current building of Studer for the museum. This was finished just on the day of this meeting.

After this Paul Zwicky held the first part of his speech about some devices developed at Studer Revox during or before the time he was at the company. Going chronologically through the apparatuses, he explained some very interesting background facts and often used the overhead projector to draw some electrical schematics diagrams, formulas or curves explaining the curiosities. As an example it was explained why the legendary A76 FM tuner has an eight stage passive LC filter and how it was built. The nickname of that filter was “seven-page filter” because the formula to calculate it needed seven

pages in width for the solving of the equation. After the first very interesting part, the participants were transferred into another floor to the museum where they could see the museum during about 40 minutes. The museum is located in two large adjacent rooms, each one housing an almost complete collection of all devices produced in series, for Studer or Revox respectively. Even the very first tape recorder designed by Dr. Willi Studer himself can be seen there. After the museum tour an apéro was offered by Studer back in the lecture room. Following to this, Paul Zwicky held the second part of his very interesting presentation.

About 16 people joined the dinner afterwards in the Restaurant Feldschlösschen nearby. The section wants to thank Paul Zwicky and Erhard Häberling as well as Studer Professional Audio GmbH for their presentations and their support in making this meeting possible. People interested in visiting the museum, please contact Mr. Erhard Häberling from the museum at [www.studerrevox.museum](http://www.studerrevox.museum).

