

# C H R O N I C L E

## 100 th AES Convention in Copenhagen

Audio Engineering Society Conventions are organized regularly on a worldwide scale twice a year. The Spring Conventions in Europe are detoned with subsequent even numbers, while the Fall Conventions in America – with odd ones. All AES Conventions, apart from other more specialized meetings, such as e.g. AES Conferences, separately numbered, bear a specified character. They are, first of all, organizational meetings of the AES-Board of Governors with the Region- and Section-Officers, and Members of numerous AES Committees, as well of the Headquarters and Regional Offices. All members comming from various countries work together intensively during the Convention days, taking advantage of the direct personal contacts and opportunity for discussion.

It should be noticed here that the AES, although registered in its actual legal stature in the USA in 1955, was founded already in 1948 and had started its broader activities with First Convention held in New York City in 1949. The AES soon became a true international society. Actually, there are 92 AES Sections all over the World, 48 being in the USA. All AES Sections are grouped into seven AES Regions: three in North America (USA and Canada), three in Europe, and one for Sections situated in other parts of the World. So much of the general information about AES on the occasion of its jubilee Convention.

The 100 th Convention held at the Bella Center in Copenhagen, on May, 11 to 14, 1996 was, due to its “rounded” number, the Jubilee event for the AES, and so it was treated by the Danish Section Organizing Committee. Thanks to its initiatives a major historical landmark was achieved with this Convention. The number of submitted papers was the greatest ever received by the AES Convention and after selection 155 were chosen for presentation; up to three parallel sessions were organized in order to accommodate them. The number of workshops was also greater than ever. It should be added that Copenhagen was declared for the year 1996 the Cultural Capital of Europe, which contributed to the attractiveness of the Convention due to the number of accompanying events in the City, which were very interesting for the visitors.

The texts of 132 papers were edited as AES Preprints, prior to the debates. It may be worth mentioning that further 35 papers submitted were rejected by the Papers Chairmen, which proves the quality requirements were kept on a high level.

The most spectacular achievement of the convention was the huge exhibition, where more than three hundreds of the World leading enterprises, active on the pro-audio market, presented their latest products. Only one exhibitor from Poland participated therein (TOMMEX). The exhibition attracted numerous visitors from all over the World of course, Although the total attendance was reported to be around 7500, i.e. about one thousand less than during the 98th Convention in Paris, last year, the quality of participants and their professional interests were assessed as highly satisfying.

The scientific part of the Convention was organized into 20 sectional debates devoted to the following subjects:

- Architectural Acoustics & Sound Reinforcement (Pt. I, II),
- Musical Instruments Acoustics & Electronic Music,
- Psychoacoustics, Hearing & Hearing Instruments (Pt. I, II),
- Music Induced Hearing Impairment,
- Transducers (Pt. I, II),
- Recording & Reproduction Systems,
- Audio in Broadcasting, Production Techniques & Transmission,
- Signal Processing (Pt. I, II, III),
- Perceptual Coding (Pt. I, II),
- Multichannel Sound Systems & Multimedia,
- Wave Field Synthesis in Audio Applications,
- Auralization & Virtual Reality,
- Measurements & Instrumentation (Pt. I, II).

The content of the workshop sessions was more diversified than ever. The following topics were presented (among others):

- Safeguarding the Audio Heritage for the Future,
- The Interaction of the Visual and Auditory Senses,
- Audio and Video Carriers, Technical and Organization Aspects,
- Use of Miniature Microphones in Theatre and Television,
- Perceptual Encoding: Subjective and Objective Methods of Evaluation,
- High Resolution Audio Mastering,
- Multichannel Sound Production Techniques,
- The digital Broadcasting House of the Future.

The last workshop was repeated many times and demonstrated at the special stand built at the Convention site as well as in the House of the Danish Radio in Copenhagen. The Danish Radio already implemented its DAR (Digital Audio Broadcasting) system and has it fully operational.

The participation of the Polish AES Section members and other Polish attendees was remarkable. Thirteen papers (i.e. ca. 10% of the total number) were published in Preprints, and read discussed during the session debates. They were written by 19 authors, or coauthors, coming from: Gdańsk (9), Wrocław (8), Warszawa (1), Poznań (1). A numerous group of students (41 - mostly from the Gdańsk TU) participated, first of all in workshop sessions. There were altogether over 150

persons from Poland. They took advantage of many cultural and social events which were available during the Convention period, and, besides, they had an excellent occasion to visit the beautiful City of Copenhagen in May.

The numerous participation of the Poles was possible thanks to the relatively cheap and easy sea-transport to Denmark, offered by the Polish Maritime Ferry Lines, between Świnoujście and Copenhagen. Despite stormy weather and rough sea during the forth-trip, which, may be, enriched the impressions of some of the participants, the whole outcome of the Polish participation in the 100th AES Convention, similar to the several previous ones, may be summed up as a successful one.

To end – some useful information about future AES Conventions. The 101st will be held in Los Angeles, November, 8-11, 1996. The 102nd – in Munich, March, 22-25, 1997. Further Convention sites are still under discussion.

*Marianna Sankiewicz*

As an enclosure to this Chronicle a list of papers published by Polish authors during the 100th AES Convention is quoted below.

- A. Czyżewski, P. Skórka „Modifications of the Auditory Feedback Loop Hearing and Speech Production” (Preprint 4148).
- A. Czyżewski, A. Lorens „Testing some DSP Algorithms for Hearing Aids and Cochlear Implants” (Preprint 4149)
- M. J. Kin „Perception of Amplitude Modulation in Harmonic Complexes” (Preprint 4151)
- T. Janeczko „Synthesis of Complex Audio Spectra by Computer Simulation of Chua’s Circuit” (Preprint 4168)
- B. Kostek, M. Szczerba „MIDI Database for the automatic Recognition of Musical Phrases” (Preprint 4169)
- S. K. Zieliński „Digital Waveguide Modeling versus Mathematical Modeling of Organ Flue Pipe” (Preprint 4170)
- M. Sankiewicz, G. Budzyński „Analysis of Dissonances in Carillon Chords” (Preprint 4172)
- B. Kostek, A. Wieczorkowska „Study of Parameter Relations in Musical Instruments Patterns” (Preprint 4173)
- R. Królikowski „Noise Reduction in Old Musical Recordings Using the Perceptual Coding of audio” (Preprint 4180)
- M. Niewiarowicz „The Analysis of spatial Distribution of Signals Emitted by a Loudspeaker-system” (Preprint 4182)
- A. Dobrucki, P. Pruchnicki, B. Żółtogórski „Computer Modeling of Loudspeaker Vibrating System” (Preprint 4207)
- K. Baściuk, S. Brachmański „Relation between Logatom Intelligibility and SNR Enhanced speech” (Preprint 4218)
- C. Szmaj „Subjective Evaluation of Sound Recordings versus Sound Spectra” (Preprint 4239)

**13th FASE SYMPOSIUM  
on Hydroacoustics and Ultrasonics  
Jurata 12-16 May 1997**

We are pleased to inform you that the XII-th FASE Symposium will be held in Jurata in May 1997. Jurata is placed on the Hel Peninsula 100 km from Gdańsk. The Hel Peninsula is quite unusual as it is 35 km long and only 300 m wide at the base. After Jurata it gradually broadens and reaches about 3 km. Nice, sandy beaches and ferry connection with Gdańsk or Gdynia make it a tourist attraction.

**Organizers**

The Symposium is organized by the Acoustical Committee of the Polish Academy of Sciences, the Polish Acoustical Society, the Naval Academy in Gdynia in cooperation with the Technical University of Gdańsk.

**Technical programme**

The main areas of the Symposium are hydroacoustics and ultrasonic technique. The topics include: acoustic noise, underwater propagation in sea, underwater acoustic systems and devices, signal processing, nonlinear acoustics, ultrasonic transducers and arrays. Papers in the acoustics, ultrasonic transducers and arrays. Paper in the areas covered by the Symposium and similar topics are welcome. The papers will be published in the "Proceedings of the XIIIth FASE Symposium". The Symposium will include plenary lecture sessions, contributed and invited paper sessions, poster sessions and exhibition.

**Address of the Organizing Committee**

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