



## Audio Engineering Society – New York Section

### NEWSLETTER – MEETING NOTICE

**2010-2011  
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The New York Section of the Audio Engineering Society invites all folks who are actively involved in professional audio to join us for a most informative evening. Students are especially welcome. The event is free of charge.

**NOTE ALTERNATE TIME AND VENUE  
FOR THIS SPECIAL EVENT**

**Saturday October 16<sup>th</sup>, 2010**  
Join us for a Meet & Greet at 8:30am  
Presentations begin at 9:00am

**New York University  
Steinhart Center  
James Dolan Recording Studio  
35 West 4<sup>th</sup> Street, 6<sup>th</sup> Floor  
New York, NY 10012**

**“Microphone Technology and Multi-Dimensional Sound - A Symposium”**

**HOSTS:**

**Agnieszka Roginska & Jim Anderson - New York University**

**James G. Williamson - AES NY Section Chair**

This co-produced event will bring together some of the finest in microphone and multi-dimensional technology, engineers and musicians to explore and explain the techniques behind recording and reproduction in the realm of Multi-Dimensional Sound.

Presenters include Gregor Zielinsky, Tonmeister, Sennheiser/Neumann, who will present The Auro 3D sound system, as well as other experts in Multi-Dimensional Sound. It will also feature prominent, Grammy® Award-winning engineers from the New York and international scenes.

Also featured is Mr. David Kotch of WSDG & Masque Sound, who will discuss the design criteria and systems integration for the development of a MDS environment. Mr. Kotch served on both the design team and integration team for the James Dolan Studio at NYU Steinhardt School.

Mr Ralph Glasgal, Founder and Head of the Ambiophonic Institute will present a discussion about making binaurally correct 2.0 and 4.0 recordings with playback using loudspeaker binaural methods.

There will be morning and afternoon sessions, including demos, and Q&A.

Seating is limited and will be secured on a registration basis - “first come, first served.”

To register to attend the symposium, please go to:

<http://aes-nyu-mar1-symposium.eventbrite.com>

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**October 16<sup>th</sup>, 2010****“Microphone Technology and Multi-Dimensional Sound - A Symposium”****HOSTS:****Agnieszka Roginska & Jim Anderson - New York University****James G. Williamson - AES NY Section Chair**

L to R: Agnieszka Roginska, Gregor Zielinsky

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More than 80 members and guests of the AES NewYork Section met on October 16th in a jointly-produced symposium with NYU-MARL (Music and Audio Research Lab), filling all available seats in NYU's James Dolan Studio and Control Room. The symposium included discussions and demonstrations of Multi-Dimensional Sound and Microphone techniques used in the capturing of MDS.

With 3D all the rage in the video world, there are “3D” (prefer MD) audio systems to go along with these. From binaural systems, based on subjective human perception of sound (read, psychoacoustics) to multi-channel set-ups, with as many as 10 speakers.

Presenters included Ralph Glasgal who discussed and demonstrated his Ambiophonics 2.0 system, capable of delivering 180 degrees of sound reproduction, with two speakers, set closely together, at a 20 degree angle. The 4.0 system is of course capable of delivering a 360 degree soundfield.

Edgar Chouieri, Director of Princeton University's Program in Engineering Physics, and Director of Princeton's Electric Propulsion and Plasma Dynamics (that's rocket science) is a music lover who discussed his work on sophisticated filters, allowing highly accurate crosstalk cancellation. Mr. Chouieri discussed the benefits of this in reproducing the listening environment of a recording. Math was presented in “English” or more laymen's terms. Excited Q&A and discussions followed.

Sennheiser Tonmeister Gregor Zielinsky presented and demonstrated the Auro 3D system. This system utilizes up to 9 or 10 speakers, including front and rear height speakers, and during the recordings, both front and rear height microphones are utilized. Mr. Zielinsky sat in the James Dolan Studio Control Room to demonstrate the system's reproduction using his recordings, which ranged from a rock band in the studio to Dianne Reeves and her quartet to a full symphony recording of Mussorgsky's Pictures at an Exhibition. The playbacks were very impressive, leaving listeners with a fine example of where recording and reproduction may be heading.

Report by by **James G. Williamson**

Special thanks goes to:



James L. Dolan Recording Studio at New York University