

**NATIONAL UNIVERSITY OF SINGAPORE**

**PUBLIC LECTURE**

Department of Physics  
Yong Siew Toh Conservatory of Music and  
the IDM Network together with  
Sennheiser Asia  
Audio Engineering Society Singapore Section and  
Singapore Computer Society SIG Entertainment Computing

present a Public Lecture by

**PROF. DR. JÖRG SENNHEISER**

*Professor, Technical University of Hannover and  
Chairman, Sennheiser electronic GmbH & Co KG*

**"ANALOG  
TRANSDUCERS FOR  
A DIGITAL WORLD"**

Lecture Theatre 31 (Science Auditorium)  
Faculty of Science,  
National University of Singapore  
Block S16, Science Drive 1,  
off Lower Kent Ridge Road

**Friday, 29 September 2006  
5.00 p.m.**



**All are welcome  
Refreshments will be served**

**"Analog Transducers  
for a Digital World"**

by Prof. Dr. Jörg Sennheiser

The contribution of Audio in the perception of speech and music consists of a multi-functional array of senses for perception, showing that the different individual parameters are interrelated and interdependent; consequently the perception via different senses is highly influenced by the other senses. Furthermore personal variations of the key-parameters make it difficult to define precise limits and values correlated to a certain perception. As a basis, consensus can be achieved by applying correct standardized measuring procedures for microphones to realize at least:

- A smooth frequency response,
- Minimal internal noise,
- Minimal distortion,
- Immunity against electromagnetic interference (EMI).

Using basic, current and advanced technologies helps to improve the design-process of high quality transducers, e.g. microphones and loudspeakers, to comply with the requirements of the Multi-media-Age.

In order to meet the most stringent requirements for professional recording purposes, Sennheiser supplies the most advanced microphones of highest quality standards, incorporating cutting edge technologies. For some applications, design-parameters can be tailored to specific needs in order to tune the performance of microphones for specialized applications.

Knowing the laws of physics and understanding the limits of perception, Sennheiser is successfully pushing the limits of performance and quality by introducing novel and innovative microphones for its customers in the Professional Audio World and in the World of Consumer Electronics.

June, 2006.

Please contact Ms Jeannette Tan at  
[jeannette.tan@sennasia.com.sg](mailto:jeannette.tan@sennasia.com.sg) or 6273-5202  
to confirm your attendance or for further information

**Curriculum Vitae  
Prof. Dr. Jörg Sennheiser**

Sept. 19th, 1944	Born in Bevensen/Germany
1951-1955	Elementary School in Hemmingen Westerfeld, Hannover/Germany
1955-1964	Secondary School in Großburgwedel and Goetheschule in Hannover/Germany
1964-1970	Studies in Electronic Engineering at the Technical University of Hannover/Germany, and the Polytechnical Institute of Technology in Zürich (ETHZ)/Switzerland
1970-1973	Scientific Research at the Institute of Telecommunication at the ETHZ Zürich; work on PhD-Thesis
Dec. 20th, 1973	Thesis on: "Sound radiation from thin sheet metal" at the ETHZ Zürich with Promotion to: Dr. sc. techn.
1974-1975	Project Engineer for Siemens-Albis AG, Zürich
1976-1982	Technical Director at SENNHEISER electronic, Germany
Since 1981	Lectureship for Electroacoustic I + II at the Techn. University of Hannover/Germany
since May 1982	Chief Executive Officer (CEO) of SENNHEISER electronic KG
March 1991 until 2004	Appointment as Professor at the Techn. University of Hannover
since April 1996	Chairman of the Board (COB) of SENNHEISER electronic GmbH & Co. KG
2006/JSe/Med	