

Final Program
International Forum for Hearing Instrument Developers
Oldenburg/Germany, Haus des Hörens, 30. 6.– 1.07.2005

Thursday, June 30th, 2005

Plenary Session

- 9.00 – 9.15 Welcome & Opening session (B. Kollmeier, S. Launer, M. Blau)
9.15 – 9.30 B. Kollmeier: *Acoustical "Hell and Heaven": Demonstration of the communication acoustic simulator*
9.30 – 10.15 Mats Dotevall (GN ReSound):
Current Trends in wireless communication devices
10.15 – 10.45 Coffee and tea break
10.45 – 11.30 Dan Ellis (Columbia Univ.): *Computational auditory scene analysis*
11.30 – 12.15 Jan Wouters (KU Leuven): *Localisation with bilateral hearing aids: without is better than with*
12.15 – 13.15 Lunch break & acoustical demonstrations of the "House of Hearing"
13.15 – 17.45 Talks and moderated discussions (see below) in the three areas
○ *Room III: Acoustic transfer functions of hearing instruments* (chaired by M. Blau)
○ *Room I (KAS): Acoustical scenes* (chaired by V. Hohmann)
○ *Room II: Hearing Aid system technology I* (chaired by S. Launer)
15.15 – 15.45 Coffee and tea break
17.30 – 18.00 Concluding discussion & report from work groups (S. Launer, M. Blau, V. Hohmann)
18.00 Musical surprise
18.15 Bus leaves directly to the evening event:
*An acoustical walking tour through Oldenburg:
Sensation for ears, eyes and (finally) taste buds!*
(Note: The dinner and one drink is free. Please be prepared to pay additional drinks yourself)

Friday, July 1st, 2005

Plenary Session

- 9.00 – 9.45 Sig Soli (House Ear Institute):
Trends and challenges in Hearing Aid development
9.45 – 10.30 Rainer Huber (HörTech):
Objective methods for acoustic quality assessment with applications to signal processing and hardware design
10.30 – 11.00 Coffee break
11.00 – 13.00 Talks and moderated discussions (see below) in the three areas
○ *Room II: Aided Hearing in Rooms* (chaired by M. Blau)
○ *Room III: (Low-power) Audio Circuit design* (chaired by J. Appell)
○ *Room I (KAS): Hearing Aid system technology II* (chaired by S. Launer)
13.00 – 13.30 Final discussion, Topics for futural conferences
13.30 – 14.30 Lunch & Visit of the Universität Oldenburg campus

Afternoon : Free for discussions in working groups or departure

Session on , Acoustic transfer functions in hearing instruments'

Thursday, June 30th, , 13.15- 17.45 hrs, Room III

Session chair: Prof. Dr.-Ing. Matthias Blau, FH Oldenburg-OW

Introduction:

13.15 Welcome and Introduction by Matthias Blau

Talks: M. Nordahn (Widex): "Modeling the acoustics of individual ear-canal geometries"

S. Schmidt (IKA Bochum): "Which sound pressure level does a hearing aid produce at the eardrum?"

M. Kinkel (Kind): Vent designs

S. Laugesen (Oticon): "Occlusion problems and other issues related to the hearing aid user's own voice"

Break:

15.15-15.45 Coffee break

Talks: Sig Soli (HEI): "Binaural hearing with hearing aids: What is the appropriate hearing aid transfer function?"

Panel discussion:

16.45 - 17.30 Moderated discussion

Session on "Acoustical scenes"

Thursday, June 30th, , 13.15- 17.45 hrs, Room I (KAS)

Session chair: Dr. V. Hohmann, Univ. Oldenburg

Introduction:

13.15- 13.20 Welcome and Introduction

Talks:

13.20-13.50 V. Hohmann (Univ. Oldenburg): Algorithms for acoustical object tracking

13.50-14.15 M. Kallinger/A.Mertins (Univ. Oldenburg): Acoustic equalization based on impulse response shortening

14.15-14.45 M. Büchler (Univ. Zürich): Automatic Sound Classification for Hearing Aids

14.45-15.15 D. Ellis (Columbia Univ.): Model-based sound separation

Break:

15.15-15.45 Coffee break

Talks:

15.45 –16.15 F. Klefenz (FHI DMT Ilmenau): Neurophysiological auditory model implementation as a tool for CASA

16.15-16.45 U. Kjems (Oticon A/S) Overcomplete blind source separation by combining ICA and binary masking

Panel discussion:

16.45- 17.30 Moderated discussion

Session on ,Hearing Aid system technology I: New developments in electroacoustics

Thursday, June 30th, , 13.15- 17.45 hrs, Room II

Session chair: Dr. Stefan Launer

Introduction:

13.15- *Welcome and Introduction* by Stefan Launer

Talks: T. Houtgast and M.Vlaming (VU Amsterdam): *About EU project HEARCOM*

Jürgen Peissig (Sennheiser): *Microphone technology*

Aart van Halteren (Sonion): *Receivers or Loudspeakers?*

Christian Weistenhoefer (SAT): *Current trends in silicon microphones for hearing aids*

Uwe Simmer / Jörg Bitzer: *Beamformer, Postfilter and Hearing-Aids - a perfect match ?!*

Henning Puder (SAT): *Challenges when integrating BSS methods in hearing aids*

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Break:

15.15-15.45 *Coffee break*

Talks:

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(Further contributions t.b.a.)

Panel discussion:

???- 17.30 *Moderated discussion*

Session on , Aided Hearing in Rooms'

Friday, July 1st, , 11.00-13.00 hrs, Room II

Session chair: Prof. Dr.-Ing. Matthias Blau (FH OOW)

Introduction:

11.00- Welcome and Introduction by Matthias Blau

Talks: C. Nocke (ABO): "Room acoustical design possibilities and criteria for hearing impaired listeners"

T. Brand (Univ. Oldenburg): "Measurement and prediction of speech intelligibility in spatial noise and reverberation for hearing impaired listeners"

R. Rodigast (FHI DMT Ilmenau): Wave field synthesis in practical applications

H. Mülder (Phonak): "Class room acoustics and FM"

Panel discussion

Session on "(Low-power) Audio Circuit design"

Friday, July 1st, , 11.00-13.00 hrs, Room III

Session chair: Dr. Jens Appell (Offis, Oldenburg)

Introduction:

11.00- Welcome and Introduction by Jens Appell

Talks:

Bärbel Mertsching (Univ. Paderborn): Design Study for Low-power Audio Circuit Design using objective quality criteria

Arne Schulz (Univ. Oldenburg): Design Study for Low-power Audio Circuit

Hongyu Wang, Thomas Eisenbach (Univ. Paderborn)/ Thomas Rohdenburg

(Univ. Oldenburg): Demo of FPGA Hearing Aid Demonstration System

Panel discussion

Session on , Hearing Aid system technology II'

Friday, July 1st, , 11.00-13.00 hrs, Room I (KAS)

Session chair: Dr. Stefan Launer (Phonak)

Introduction:

11.00 Welcome and Introduction by Stefan Launer

Talks: Graham Naylor (Oticon): Some results and ideas regarding the role of cognitive function in hearing with and without hearing aids

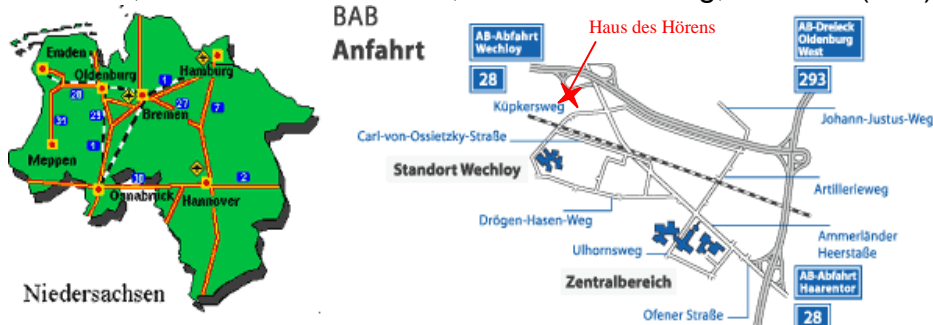
Wouter Dreschler (AMC) User interaction in fine-tuning of hearing aids

Matthias Fröhlich (SAT): Different methods for evaluating the subjective hearing aid performance

Panel discussion

Place of the conference

„Haus des Hörens“, Marie-Curie-Straße 2, 26129 Oldenburg, Telefon: (+49)-441- 2172-100.



Arrival by train: From Oldenburg central station take bus nr. 310 (direction: Ofen/Wehnen, departs each 15 minutes during regular hours and takes 12 minutes). Exit at bus stop “Pophankenweg/Küpkersweg” and walk 200 m into the Küpkersweg (passing by “Bekleidungshaus Bruno Kleine”). Alternatively, a taxi costs approx. 9 € and takes about 10 minutes.

Arrival by air: At Bremen Airport take the streetcar to Bremen main train station (approx. 15 min). Trains from Bremen to Oldenburg depart each half hour and take approx. 40 minutes. Alternatively order an airport shuttle service “Luftibus” in advance (Tel. (+49)-441-81114, <http://www.luftibus.de/>) (35 € one-way, 66 € roundtrip, travel time 40 minutes until the final destination in Oldenburg)

Arrival by car: Autobahn 28 (Bremen-Oldenburg-Emden/Leer) exit at “Oldenburg Wechloy” into the direction “Stadtmitte/Universität”. At the next traffic light after 400 m turn right into the Küpkersweg (passing by “Bekleidungshaus Bruno Kleine”).

Accommodation: A number of rooms have been blocked with the **code name HörTech until May 31st** at the following hotels in Oldenburg. Please book your hotel yourself!

Antares Hotel (centrally located between city and train station, single room 72 €/night)
Tel. (+49)-441/92250, www.antares-hotel.info

Hotel Hermes (200 m from train station, single room 67 €/night)
Tel. (+49)-441/779390, www.hermes-hotels.de/index_e.html

Hotel zum Lindenhof (vicinity of university and house of hearing, single room 38,25 €)
Tel. (+49)-441/951910, www.zumlindenhof.de

City Club Hotel (high standard hotel, vicinity of train station, single room 88,20 €)
Tel. 0441/8080, www.cch-hotel.de

Transportation: A bus service is organized on Thursday evening from the conference site to the evening event in Oldenburg (city center). The evening event will end at the “Haus des Handels” in the Gartenstraße 5 (<http://www.iffcom.de/tvstudio/502379949a06e5405/>)" (within walking distance to most of the hotels)