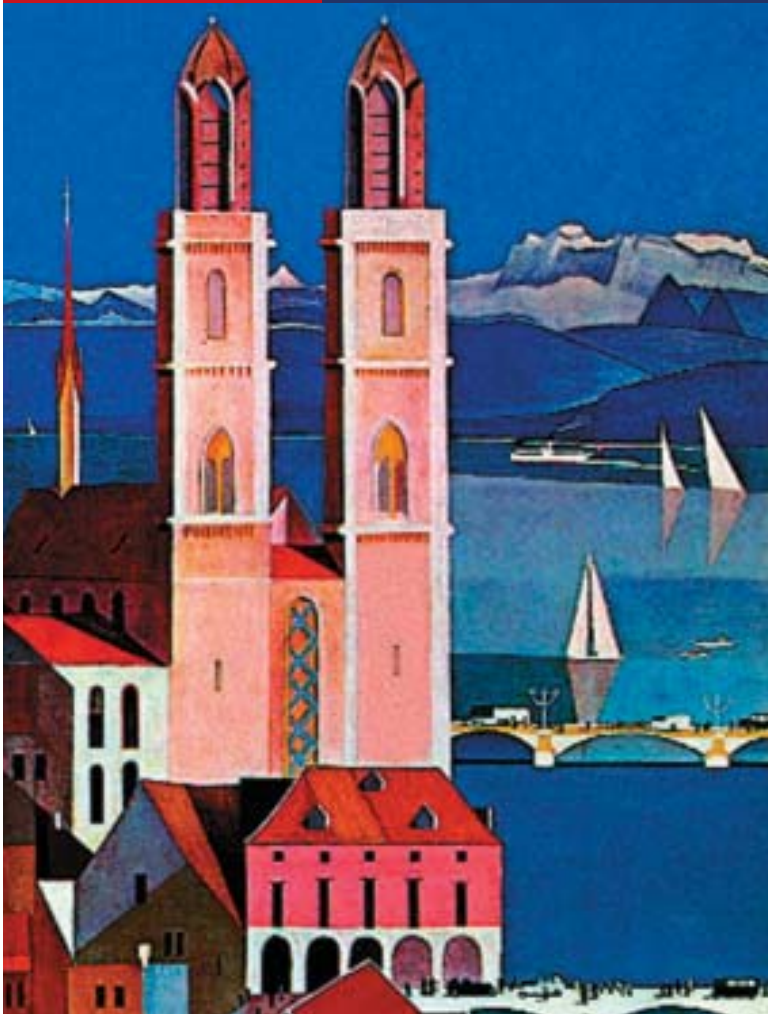


**MEMRO 2006**

**4<sup>th</sup> International Symposium on  
Middle Ear Mechanics in  
Research and Otology**

**University Hospital Zurich  
July 27 – 30, 2006**

**Final Program**



Universität Zürich



Universität Stuttgart

# Vibrant® Soundbridge®

## NEW TRENDS AND DEVELOPMENTS



Join our Satellite Symposium  
on Saturday, 29 July 2006

[www.vibrant-medel.com](http://www.vibrant-medel.com)

VIBRANT MED-EL Hearing Technology GmbH, Fürstenweg 77, A-6020 Innsbruck  
Tel: +43 (0)512 28 88 89 • [vibrant@medel.com](mailto:vibrant@medel.com)

Dear colleagues and friends,

We are pleased to announce the final program of the 4<sup>th</sup> Symposium on Middle Ear Mechanics in Research and Otology, MEMRO 2006. We cordially invite you to the University of Zurich for a meeting with a highly attractive program for both the clinical and basic science aspects of modern otology.

The congress combines a great variety of keynote lectures, invited papers, free papers and round table discussions by internationally renowned speakers and moderators.

An essential highlight is the extensive poster session with two awards awaiting their laureates. The topics of the symposium focus on clinical and mechanical aspects of the normal, diseased and reconstructed middle ear, evaluation and diagnosis of middle ear function, middle ear surgery and implantable hearing devices.

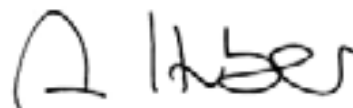
To facilitate and stimulate an intensive dialogue between all the participants, all contributions will be presented without parallel sessions.

Besides the scientific program we are delighted to invite you to join us for a unique social program including a welcome reception, a congress dinner and an excursion to central Switzerland.

We are looking forward to welcoming you in Zurich



Dr.-Ing. Albrecht Eiber  
Institute of Engineering and  
Computational Mechanics  
University of Stuttgart



PD Dr. Alexander Huber  
Department of Otorhinolaryngology  
Head and Neck Surgery  
University Zurich

## Congress Chairs

**Dr.-Ing. Albrecht Eiber**  
Institute of Engineering  
and Computational Mechanics  
University of Stuttgart  
Pfaffenwaldring 9  
DE-70550 Stuttgart  
Germany

Phone: +49 711 685 66 393

Fax: +49 711 685 66 400

[eiber@itm.uni-stuttgart.de](mailto:eiber@itm.uni-stuttgart.de)

**PD Dr. Alexander Huber**  
Department of Otorhinolaryngology  
Head and Neck Surgery  
University of Zurich  
Frauenklinikstrasse 36  
CH-8091 Zurich  
Switzerland

Phone: +41 44 255 58 63

Fax: +41 44 255 45 56

[alex.huber@usz.ch](mailto:alex.huber@usz.ch)

## Congress Management

MEMRO 2006  
c/o SCSM AG  
Flughofstrasse 37  
CH-8152 Zurich-Glattbrugg  
Switzerland

Phone: +41 44 809 42 80

Fax: + 41 44 809 42 81

[memro@congressorg.ch](mailto:memro@congressorg.ch)

[www.memro.org](http://www.memro.org)

## Scientific Committee

Norbert Dillier, Zurich; Switzerland  
Albrecht Eiber, Stuttgart; Germany  
Richard L. Goode, Stanford; USA  
Kiyofumi Gyo, Matsuyama; Japan  
Alexander Huber, Zurich; Switzerland  
Karl-Bernd Hüttenbrink, Cologne; Germany  
Saumil N. Merchant, Boston; USA  
John J. Rosowski, Boston; USA  
Stephan Schmid, Zurich; Switzerland  
Hiroshi Wada, Sendai; Japan  
Thomas Zahnert, Dresden; Germany

## International Guest Faculty

Manohar Bance, Halifax; Canada  
Vittorio Colletti, Verona; Italy  
Willem Decraemer, Antwerp; Belgium  
Joris Dirckx, Antwerp; Belgium  
Alec Fitzgerald O'Connor, London; UK  
Bruno Frachet, Bobigny; France  
Rudolf Häusler, Berne; Switzerland  
Bo Håkansson, Göteborg; Sweden  
Thomas Lenarz, Hannover; Germany  
Thomas Linder, Lucerne; Switzerland  
Marcus Maassen, Tübingen; Germany  
Rudolf Probst, Zurich; Switzerland  
David Proops, Birmingham; UK  
Sunil Puria, Stanford; USA  
Daniel Robert, Bristol; UK  
Tom Roland, New York; USA  
Bernhard Schuknecht, Zurich; Switzerland  
Stefan Stenfelt, Göteborg; Sweden  
Benno Weber, Zurich; Switzerland  
Urban Willi, Zurich; Switzerland  
Hans-Peter Zenner, Tübingen; Germany



Multiple needs...  
one total hearing **Solution**

**Nucleus®**  
**freedom™**

Cochlear™ is proud to introduce the next generation in cochlear implant technology, Nucleus® Freedom™.

This system incorporates SmartSound™, revolutionary sound processing technology, which improves hearing for recipients in a wider range of listening environments than ever before. This remarkable technology is made possible by our newly developed digital microchips within the speech processor and implant, and fully realised through our user-friendly Custom Sound™ programming software Suite.

To learn more, contact your nearest Cochlear office, or visit [www.cochlear.com](http://www.cochlear.com)

Cochlear Ltd 61 2 9428 6555 Cochlear Americas | 303 790 9010 Cochlear AG 41 61 205 0404  
Cochlear Europe Ltd 44 20 8879 4900 Nihon Cochlear Co Ltd 81 3 3817 0241  
Cochlear GmbH 49 511 542 770 Cochlear (HK) Ltd 852 2530 5773 Cochlear France 33 534 63 85 85  
Cochlear Benelux NV 32 15 36 28 77 Cochlear Italia SRL 39 051 343578

Nucleus is a registered trademark of Cochlear Limited. Cochlear, the elliptical logo, SmartSound, Custom Sound and Freedom are trademarks of Cochlear Limited. N31301F ISS1 JUL05

  
**Cochlear™**

	Page
Program at a glance	6 - 7
Scientific Program	9 - 20
Posters	21 - 24
Satellite Symposia	25 - 26
Social Events	27 - 28
General Information	29 - 31
Information about Zurich	33
Hotel and Travel Information	34
Map of Zurich	35



		Thursday	Friday
<b>Morning</b>	from 08.00	<b>Registration</b>	<b>Session V</b> Hearing mechanics in humans and animals  Page 13-14
	09.00	<b>Opening</b>	
	09.10	<b>Session I</b> Bone conduction Page 9	
	10.00	Coffee break - visit of the technical exhibition - poster viewing	
	10.30	<b>Session II</b> Middle ear pressure regulation  Page 10	<b>Session VI</b> Surgical techniques  Page 14
	12.30	Lunch break - visit of the technical exhibition - poster viewing	<b>Cochlear AG</b> Lunch Symposium  Page 25
<b>Afternoon</b>	13.30	<b>Session III</b> Diagnostic assessment of the middle ear  Page 11-12	<b>Session VII</b> Modeling of middle ear mechanics  Page 15
	15.30	Coffee break - visit of the technical exhibition - poster viewing	
	16.00	<b>Poster viewing and discussion</b>	<b>Round Table 1</b>  Page 16
	17.00	<b>Session IV</b> Diagnostic assessment of the middle ear Page 12	<b>Session VIII</b> Implantable hearing aids  Page 16
	18.00	<b>Welcome Reception</b>  Page 27	<b>MEMRO Dinner</b>  Page 27



	Saturday	Sunday
<b>Morning</b>	<p>08.00</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Session IX</b> Prosthetic middle ear reconstruction</p> <p>Page 17-18</p> </div>	<div style="border: 1px solid black; padding: 50px 0;"> <p><b>Excursion to Central Switzerland</b></p> </div>
	<p>10.00</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Coffee break - visit of the technical exhibition - poster viewing</p> </div>	
	<p>10.30</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Session X</b> Implantable hearing aids</p> <p>Page 18-19</p> </div>	
	<p>12.00</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Lunch break - visit of the exhibition - poster viewing</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Vibrant MedEl Lunch Symposium Page 26</p> </div> </div>	
<b>Afternoon</b>	<p>13.30</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Session XI</b> Non middle ear cause of conductive hearing loss and Diagnostic imaging</p> <p>Page 19-20</p> </div>	<div style="border: 1px solid black; padding: 50px 0;"> <p>Page 28</p> </div>
	<p>15.30</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Coffee break - visit of the technical exhibition - poster viewing</p> </div>	
	<p>16.00</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>Round Table 2</b></p> <p>Page 20</p> </div>	
	<p>17.00</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Poster Award Ceremony, Closing Page 20</p> </div>	



- from 08.00      Registration, welcome coffee, technical exhibition
- 09.00            Opening**
- 09.10            Session I – Bone conduction**  
Chairs: B. Håkansson, Göteborg; Sweden  
          M. Maassen, Tübingen; Germany
- 1.1              Keynote Lecture**  
Overview and recent advances in bone conduction physiology  
*S. Stenfelt, Göteborg; Sweden*
- 1.2              Invited Paper**  
CSF jiggler - new insights into the mechanism of bone conduction  
*Th. Lenarz, Hannover; Germany*
- 1.3              Invited Paper**  
The Bone anchored hearing aid (BAHA) and elicited skull vibrations  
*M. Bance, O. Majdalewicz, R. van Wijhe, Halifax; Canada*
- 10.00            Coffee break – visit of the technical exhibition –  
                     poster viewing**

- 10.30**            **Session II – Middle ear pressure regulation**  
Chairs:    S. N. Merchant, Boston; USA  
              R. Probst, Zurich; Switzerland
- 2.1**            **Keynote Lecture**  
Middle ear static pressure: measurement, regulation and effects  
on middle ear mechanics  
*J. Dirckx, Antwerp; Belgium*
- 2.2**            Ossicular motion during static pressure changes in the  
avian middle ear  
*R. Mills, J. Zhang, M. Zadrozniak, Edinburgh; Scotland*
- 2.3**            Direct measurements and monitoring of middle ear pressure  
*H. Jacobsen<sup>1</sup>, J. Dirckx<sup>2</sup>, M. Gaihede<sup>1</sup>, K. Tveterås<sup>1</sup>,  
Aalborg; Denmark<sup>1</sup>, Antwerp; Belgium<sup>2</sup>*
- 2.4**            Modeling middle ear pressure regulation  
*W. Doyle, Pittsburgh; USA*
- 2.5**            Indications of central regulation of middle ear pressure from pressure  
evoked brain potentials  
*S. Sami<sup>1</sup>, LG.Nielsen<sup>1</sup>, M. Gaihede<sup>1</sup>, AM. Drewes<sup>2</sup>, Aalborg; Denmark<sup>1,2</sup>*
- 2.6**            Biomechanical evaluation of eustachian tube function and its role in  
regulating middle ear pressures  
*SN. Ghadiali<sup>1</sup>, ED. Bell<sup>1</sup>, CM. Alper<sup>2</sup>, JD. Swarts<sup>2</sup>, CD. Bluestone<sup>2</sup>,  
Bethlehem<sup>1</sup>, Pittsburgh<sup>2</sup>; USA*
- 2.7**            Does mucosa perfusion determine the exchange rate of CO<sub>2</sub> in the  
middle ear?  
*Y. Marcusohn<sup>1</sup>, JJ. Dirckx<sup>1</sup>, A. Ar<sup>2</sup>, Antwerp; Belgium<sup>1</sup>, Tel Aviv; Israel<sup>2</sup>*
- 2.8**            The ossicular chain contributes to the effects of static pressure on  
middle-ear sound conduction  
*JJ. Rosowski<sup>2</sup>, ML. Wood<sup>1</sup>, Boston; USA<sup>1,2</sup>*
- 2.9**            Subannular ventilation tubes in treatment of chronic tubal  
dysfunction - results in 85 consecutive cases.  
*MG. Jensen, H. Jacobsen, M. Gaihede, J. Rosborg, Aalborg; Denmark*
- 12.30**           **Lunch break – visit of the technical exhibition –  
poster viewing**

- 13.30**            **Session III – Diagnostic assessment of the middle ear**  
Chairs:    W. Decraemer, Antwerp; Belgium  
              U. Willi, Zurich; Switzerland
- 3.1**                **Keynote Lecture**  
Recently developed measurement techniques and diagnostic apparatuses for the middle ear  
*H. Wada, Sendai; Japan*
- 3.2**                On the way to differentially diagnosing middle-ear and inner-ear disorders  
*D. Turcanu, E. Dalhoff, A. Gummer, Tübingen; Germany*
- 3.3**                Toward a further understanding of middle ear mechanism using otoreflectance  
*F. Zhao<sup>1</sup>, J. Dayalan<sup>2</sup>, R. Meredith<sup>3</sup>, N. Wotherspoon<sup>1</sup>, D. Keefe<sup>4</sup>, Swansea; Wales<sup>1</sup>, Waterford; Ireland<sup>2</sup>, Singleton; Wales<sup>3</sup>, Omaha; USA<sup>4</sup>*
- 3.4**                Determination of the specific acoustic input impedance of the ear for diagnostic of middle ear transmission disorders  
*J. Rodriguez Jorge<sup>1</sup>, MM. Maassen<sup>1</sup>, W. Hemmert<sup>2</sup>, HP. Zenner<sup>1</sup>, Tübingen; Germany<sup>1</sup>, Infineon Technologies AG<sup>2</sup>*
- 3.5**                A new diagnostic apparatus for ossicular fixation: Evaluation of the usability through the measurements in human temporal bones and patients  
*T. Koike<sup>1</sup>, S. Hamanishi<sup>2</sup>, Y. Yuasa<sup>3</sup>, R. Yuasa<sup>3</sup>, T. Kobayashi<sup>4</sup>, HH. Nakajima<sup>5</sup>, W. Chien<sup>5</sup>, M. Ravicz<sup>5</sup>, SN. Merchant<sup>5</sup>, JJ. Rosowski<sup>5</sup>, RL. Goode<sup>6</sup>, H. Wada<sup>2</sup>, Tokyo<sup>1</sup>, Sendai<sup>2,3,4</sup>; Japan, Boston<sup>5</sup>, Stanford<sup>6</sup>; USA*
- 3.6**                Measurements of stapes velocity in live human ears  
*W. Chien<sup>2</sup>, JJ. Rosowski<sup>2</sup>, ME. Ravicz<sup>1</sup>, SN. Merchant<sup>2</sup>, Boston; USA<sup>1,2</sup>*
- 3.7**                Six years of experience with measurements of tympanic membrane velocity by laser Doppler vibrometry as a clinical diagnostic tool  
*SN. Merchant, HH. Nakajima, W. Chien, JJ. Rosowski, Boston; USA*
- 3.8**                Sources of variability in reflectance measurements on normal human ears  
*SE. Voss, NJ. Horton, RR. Woodbury, CA. Shea, Northampton; USA*

- 3.9 Higher frequency variability in external ear resonance - why so much and can we improve poor functioning ears?  
*R. Goode, Stanford; USA*
- 15.30 **Coffee break - visit of the technical exhibition - poster viewing**
- 16.00 **Poster viewing and discussion in the poster exhibition**
- 17.00 **Session IV - Diagnostic assessment of the middle ear**  
Chairs: N. Dillier, Zurich; Switzerland  
T. Zahnert, Dresden; Germany
- 4.1 **Invited Paper**  
Closure of the ear canal opening and its effects on hearing tests  
*K. Gyo, T. Maetani, Matsuyama; Japan*
- 4.2 **Invited Paper**  
Estimation of stapes piston-motion with uni-directional measurements is prone to error  
*WF. Decraemer, Antwerp; Belgium*
- 4.3 Acoustic transmission properties of the eustachian tube  
*A. Khwaja, M. Bance, Halifax; Canada*
- 4.4 Experimental investigations on the functional effect of ossicular joint fixation  
*C. Offergeld<sup>1</sup>, N. Lasurashvili<sup>2</sup>, M. Bornitz<sup>2</sup>, T. Beleites<sup>2</sup>, T. Zahnert<sup>2</sup>, Freiburg<sup>1</sup>, Dresden<sup>2</sup>; Germany*
- 4.5 Postoperative tympanogram in tympanoplasty with thin section cartilage island  
*CS. Cho, JS. Lee, DS. Chang, MS. Choi, KY. Park, Daejeon; Korea*
- 18.00 **Welcome Reception**  
see page 27

- 08.00**            **Session V – Hearing mechanics in humans and animals**  
Chairs:    J. J. Rosowski, Boston; USA  
              S. Puria, Stanford; USA
- 5.1**                **Keynote Lecture**  
Mechanics of hearing in other species  
*D. Robert, Bristol; UK*
- 5.2**                **Invited Paper**  
The catenary principle of tympanic membrane function –  
time to put it to rest?  
*R. Goode, Stanford; USA*
- 5.3**                Do non-piston components contribute to scala vestibuli pressure  
behind the footplate in gerbil?  
*WF. Decraemer<sup>1</sup>, O. de la Rochefoucauld<sup>2</sup>, W. Dong<sup>2</sup>, EL. Olson<sup>2</sup>,  
SM. Khanna<sup>2</sup>, JJ. Dirckx<sup>1</sup>, Antwerp; Belgium<sup>1</sup>, New York; USA<sup>2</sup>*
- 5.4**                Mechanical excitation of complex stapes motion in guinea pigs  
*C. Breuninger<sup>1</sup>, D. Sequeira<sup>2</sup>, A. Huber<sup>2</sup>, A. Eiber<sup>1</sup>,  
Stuttgart; Germany<sup>1</sup>, Zurich; Switzerland<sup>2</sup>*
- 5.5**                The effects of complex stapes motion on the response of the  
cochlea in guinea pigs  
*D. Sequeira<sup>1</sup>, C. Breuninger<sup>2</sup>, A. Eiber<sup>2</sup>, A. Huber<sup>1</sup>,  
Zurich; Switzerland<sup>1</sup>, Stuttgart; Germany<sup>2</sup>*
- 5.6**                Canal obliquity and stapes velocity transfer function  
*T. Maetani<sup>1</sup>, S. Puria<sup>2</sup>, R. Goode<sup>2</sup>, Toon; Japan<sup>1</sup>, Stanford; USA<sup>2</sup>*
- 5.7**                Fresh tympanic membrane perforations heal without significant loss  
of strength  
*M. von Unge<sup>1</sup>, A. Rahman<sup>1</sup>, JJ. Dirckx<sup>2</sup>, M. Hultcrantz<sup>1</sup>,  
Västerås; Sweden<sup>1</sup>, Antwerp; Belgium<sup>2</sup>*
- 5.8**                Boost of transmission at the pedicle of the incus in the chinchilla  
middle ear  
*MA. Ruggero<sup>1</sup>, L. Robles<sup>2</sup>, AN. Temchin<sup>1</sup>, YH. Fan<sup>1</sup>, H. Cai<sup>1</sup>,  
Evanston; USA<sup>1</sup>, Santiago; Chile<sup>2</sup>*



- 5.9 Equivalent noise levels generated by the rotating burr on the ossicular chain as measured by Laser Doppler Vibrometry: A temporal bone study  
*D. Jiang<sup>1</sup>, A. Bibas<sup>2</sup>, C. Santulli<sup>3</sup>, N. Donnelly<sup>1</sup>, G. Jeronimidis<sup>3</sup>, A. Fitzgerald O' Connor<sup>1</sup>, London; UK<sup>1</sup>, Athens; Greece<sup>2</sup>, Reading; UK<sup>3</sup>*
- 10.00 **Coffee break – visit of the technical exhibition – poster viewing**
- 10.30 **Session VI – Surgical techniques**  
Chairs: R. Häusler, Berne; Switzerland  
B. Weber, Zurich; Switzerland
- 6.1 **Invited Paper**  
From imaging of the mastoid to robotic surgery:  
The ROBIN-Project  
*M. Maassen, Tübingen; Germany*
- 6.2 Storage of the incus in the mastoid bowl for use as a columella in staged tympanoplasty  
*K. Gyo<sup>1</sup>, T. Maetani<sup>2</sup>, N. Hato<sup>1</sup>, Y. Shinomori<sup>2</sup>, Matsuyama<sup>1</sup>, Toon<sup>2</sup>; Japan*
- 6.3 Incusinterposition: surgical highlights and audiological results  
*Ch. Röögli, A. Luiz de Ataide, Ch. Schlegel-Wagner, T. E. Linder, Lucerne; Switzerland*
- 6.4 Tympanic membrane blunting: prevention and treatment  
*TL. Eby, Birmingham; USA*
- 6.5 Preservation of the intact ossicular chain in cholesteatoma surgery  
*J. Hamilton, Gloucester; UK*
- 6.6 Tympanoplasty today – an analysis of 11000 cases of reconstructive middle ear surgery – the Würzburg experience  
*J. Müller, F. Schön, S. Brill, J. Helms, R. Hagen, Würzburg; Germany*
- 6.7 The efficacy of one-stage tympanoplasty with mastoid obliteration and a tympanoplasty by an endaural approach using ceramic prosthesis  
*KE. Hayashi, AT. Shinkawa, Hadano; Japan*
- 12.00 **Lunch break – visit of the technical exhibition – poster viewing**

- 12.15            **Lunch Symposium Cochlear**  
see page 25
- 13.30            **Session VII – Modeling of middle ear mechanics**  
Chairs: H. Wada, Sendai; Japan  
S. Stenfelt, Göteborg; Sweden
- 7.1              **Keynote Lecture**  
The development and utility of quantitative models of middle-ear function  
*JJ. Rosowski, Boston; USA*
- 7.2              "Conceptual design" of the human middle ear  
*H. Hudde, Bochum; Germany*
- 7.3              Acoustic-structural coupled finite element analysis for sound transmission in human ear - middle ear transfer function  
*RZ. Gan<sup>1</sup>, T. Cheng<sup>1</sup>, MW. Wood<sup>2</sup>, Norman<sup>1</sup>, Oklahoma City<sup>2</sup>; USA*
- 7.4              Effects of middle ear suspensory ligaments on acoustic-mechanical transmission in human ear  
*RZ. Gan<sup>1</sup>, T. Cheng<sup>1</sup>, D. Nakmali<sup>2</sup>, MW. Wood<sup>2</sup>, Norman<sup>1</sup>, Oklahoma City<sup>2</sup>; USA*
- 7.5              A new model for training in tympanoplasty  
*G. Hofmann, M. Bornitz, N. Lasurashvili, H. Seidler, T. Zahnert, Dresden; Germany*
- 7.6              Evaluation of laser vibrometry as diagnostic utility by means of a simulation model of the middle ear  
*M. Bornitz<sup>1</sup>, T. Zahnert<sup>1</sup>, HJ. Hardtke<sup>2</sup>, Dresden; Germany<sup>1,2</sup>*
- 7.7              Imaging, physiology and biomechanics of the malleus-incus complex  
*JH. Sim, S. Puria, CR. Steele, Stanford; USA*
- 7.8              Basilar membrane displacement with opened and occluded oval window and bone conduction  
*F. Böhnke<sup>1</sup>, A. Arnold<sup>2</sup>, T. Fawzy<sup>1</sup>, Munich; Germany<sup>1</sup>, Berne; Switzerland<sup>2</sup>*
- 7.9              Linearity of the middle ear before and after reconstruction  
*O. Majdalawieh, M. Bance, R. van Wijhe, Halifax; Canada*

- 15.30            **Coffee break – visit of the technical exhibition – poster viewing**
- 16.00            **Round Table 1 – Surgical techniques: Principles and outcome**  
 Moderator:        H.-P. Zenner, Tübingen; Germany  
 Panelists:         A. Eiber, Stuttgart; Germany  
                       A. Fitzgerald O'Connor, London; UK  
                       R. L. Goode, Stanford; USA  
                       K.-B. Hüttenbrink, Cologne; Germany  
                       S. N. Merchant, Boston; USA  
                       R. Probst, Zurich; Switzerland
- 17.00            **Session VIII – Implantable hearing aids**  
 Chairs:    A. Fitzgerald O'Connor, London; UK  
               H.-P. Zenner, Tübingen; Germany
- 8.1              Mechanical problems in human hearing  
*A. Eiber, C. Breuninger, Stuttgart; Germany*
- 8.2              The round window approach for MED-EL VSB in difficult-to-treat middle ear problems  
*V. Colletti, M. Carner, L. Colletti, L. Sacchetto, Verona; Italy*
- 8.3              The transcanal approach for the Vibrant Soundbridge: the experience of the clinic in Pisa  
*L. Bruschini, Pisa; Italy*
- 8.4              Vibrant Soundbridge clinical investigations: expanding indications for use  
*JM. Opie<sup>1</sup>, M. Huetter<sup>1</sup>, P. Grasso<sup>1</sup>, S. Labassi<sup>1</sup>, N. Giarbini<sup>1</sup>, N. Dillier<sup>2</sup>, A. Huber<sup>2</sup>, Innsbruck; Austria<sup>1</sup>, Zurich; Switzerland<sup>2</sup>*
- 8.5              Bypassing insufficient sound transfer in the chronically disabled middle ear by an active/passive prosthesis  
*K.-B. Hüttenbrink<sup>1</sup>, TH. Zahnert<sup>2</sup>, M. Bornitz<sup>2</sup>, G. Hofmann<sup>2</sup>, Cologne<sup>1</sup>, Dresden<sup>2</sup>; Germany*
- 20.00            **MEMRO Dinner**  
 see page 27

- 08.00**            **Session IX – Prosthetic middle ear reconstruction**  
Chairs: M. Bance, Halifax; Canada  
          S. Schmid, Zurich; Switzerland
- 9.1**              **Keynote Lecture**  
From evolutionary principles to middle ear reconstruction:  
What can we learn from nature?  
*K.-B. Hüttenbrink, Cologne; Germany*
- 9.2**              **Invited Paper**  
Coupling problems in middle ear reconstruction  
*T. Zahnert, Dresden; Germany*
- 9.3**              Induction of bone formation by titanium implants coated with  
immobilized recombinant human bone morphogenetic protein-2 in  
the rabbits petrous bone  
*A. Neumann<sup>1</sup>, M. Chatzinikolaidou<sup>2</sup>, C. Unkel<sup>1</sup>, S. Dazert<sup>3</sup>,  
HP. Jennissen<sup>2</sup>, K. Jahnke<sup>1</sup>,  
Duisburg-Essen<sup>1,2</sup>, Bochum<sup>3</sup>; Germany*
- 9.4**              Comparison of hydroxyapatite PORP efficacy in ossicular chain  
reconstruction with autograft incus  
*NE. Berjis, SA. Soheilipour, Isfahan; Iran*
- 9.5**              Initial experience with titanium MVP clip prosthesis  
*PP. Singh, New Delhi; India*
- 9.6**              Development of a new clip-piston prosthesis for the stapes  
*G. Schimanski<sup>1</sup>, U. Steinhardt<sup>2</sup>, A. Eiber<sup>3</sup>,  
Luenen<sup>1</sup>, Dusslingen<sup>2</sup>, Stuttgart<sup>3</sup>; Germany*
- 9.7**              Partial ossicular reconstruction - experimental and clinical  
comparison of three different prostheses  
*N. Lasurashvili, M. Neudert, M. Bornitz, Z. Lavcheva, T. Zahnert,  
Dresden; Germany*
- 9.8**              Functional evaluation of middle ear prostheses  
*H. Mojalla<sup>3</sup>, M. Stieve<sup>3</sup>, C. Turck<sup>3</sup>, I. Krueger<sup>1</sup>, F. Dimpfel<sup>2</sup>,  
N. Witteck<sup>1</sup>, B. Süß<sup>1</sup>, P. Behrens<sup>1</sup>, P. Mueller<sup>2</sup>, T. Lenarz<sup>3</sup>,  
Hannover<sup>1,3</sup>, Braunschweig<sup>2</sup>; Germany*

- 9.9 No more crimping in stapedotomy? A multicentre trial with the Nitinol stapes piston  
*GP. Rajan<sup>1</sup>, AM. Huber<sup>2</sup>, R. Blackham<sup>3</sup>, RH. Eikelboom<sup>3</sup>, MD. Atlas<sup>1</sup>, Perth; Australia<sup>1,3</sup>, Zurich; Switzerland<sup>2</sup>*
- 10.00 **Coffee break – visit of the technical exhibition – poster viewing**
- 10.30 **Session X – Implantable hearing aids**  
Chairs: K. Gyo, Matsuyama; Japan  
Th. Linder, Lucerne; Switzerland
- 10.1 A new implantable middle ear hearing device for mixed hearing loss: A feasibility study in human temporal bones  
*G. Ball<sup>1</sup>, A. Huber<sup>2</sup>, Innsbruck; Austria<sup>1</sup>, Zurich; Switzerland<sup>2</sup>*
- 10.2 On the optimal coupling of an implantable hearing aid – measurements and simulations  
*A. Eiber<sup>1</sup>, C. Breuninger<sup>1</sup>, J. Rodriguez Jorge<sup>2</sup>, HP. Zenner<sup>2</sup>, MM. Maassen<sup>2</sup>, Stuttgart<sup>1</sup>, Tübingen<sup>2</sup>; Germany*
- 10.3 Optimizing the coupling load for the Otologics middle ear transducer MET: intra operative measurements  
*J. Rodriguez Jorge, M. Pfister, R. Ciuman, HP. Zenner, MM. Maassen, Tübingen; Germany*
- 10.4 Acoustical gain of a non-implantable electromagnetic hearing aid: Experiments using human temporal bones  
*S. Hamanishi<sup>1</sup>, T. Koike<sup>2</sup>, W. Chien<sup>3</sup>, ME. Ravicz<sup>3</sup>, SN. Merchant<sup>3</sup>, JJ. Rosowski<sup>3</sup>, H. Wada<sup>1</sup>, Sendai<sup>1</sup>, Tokyo<sup>2</sup>; Japan, Boston<sup>3</sup>; USA*
- 10.5 Implantable Microphone: A Middle Ear Ossicular Vibration Sensor  
*H. Seidler<sup>1</sup>, I. Hochmair<sup>2</sup>, Dresden<sup>1</sup>; Germany, Innsbruck<sup>2</sup>; Austria*
- 10.6 The effect of cochlear implant electrode insertion on middle ear transfer function as measured by in-vivo laser doppler vibrometry  
*N. Donnelly<sup>1</sup>, A. Bibas<sup>3</sup>, D. Jiang<sup>1</sup>, C. Santulli<sup>2</sup>, A. Fitzgerald O'Connor<sup>1</sup>, London<sup>1</sup>, Reading<sup>2</sup>; UK, Athens; Greece<sup>3</sup>*

- 10.7 A new implantable hearing system for moderate-to-severe mixed hearing loss  
*H. Mojallal<sup>1</sup>, C. Stieger<sup>2</sup>, E. Grasshof<sup>1</sup>, R. Haeusler<sup>2</sup>, T. Lenarz<sup>1</sup>, Hannover; Germany<sup>1</sup>, Berne, Switzerland<sup>2</sup>*
- 12.00 **Lunch break – visit of the technical exhibition – poster viewing**
- 12.15 **Lunch Symposium Vibrant Med-El Hearing Technology GmbH**  
see page 26
- 13.30 **Session XI – Non middle ear cause of “conductive” hearing loss and Diagnostic imaging**  
Chairs: J. Dirckx, Antwerp; Belgium  
B. Schuknecht, Zurich; Switzerland
- 11.1 **Keynote Lecture**  
A clinical perspective on non-middle ear causes of an air-bone gap  
*SN. Merchant, Boston; USA*
- 11.2 The effects of superior semicircular canal dehiscence on hearing: does size of the dehiscence have an impact?  
*GP. Rajan<sup>1</sup>, A. Whyte<sup>2</sup>, MD. Atlas<sup>1</sup>, RH. Eikelboom<sup>3</sup>, Perth; Australia<sup>1,2,3</sup>*
- 11.3 Measurements of human inner-ear function with superior semicircular canal dehiscence (SCD)  
*ME. Ravicz<sup>1</sup>, W. Chien<sup>2</sup>, JE. Songer<sup>3</sup>, JJ. Rosowski<sup>2</sup>, SN. Merchant<sup>2</sup>, Boston<sup>1,2</sup>, Cambridge<sup>3</sup>; USA*
- 11.4 Interest of measuring the resonance frequency of the ear using TEFLAG test in Menière patients exposed to changes in atmospheric pressure  
*M. Camicas<sup>1</sup>, P. Avan<sup>2</sup>, St. Martin<sup>1</sup>, Clermont-Ferrand<sup>2</sup>; France*
- 11.5 First application of fully implantable hearing aids in patients with congenital auricular atresia  
*S. Mattheis, R. Siegert, Recklinghausen; Germany*

- 11.6**                    **Invited Paper**  
Middle ear morphometry from cadaveric temporal bone micro-CT imaging  
*S. Puria, J. Sim, J. Tuck-Lee, C. Steele, Stanford; USA*
- 11.7                    3-Dimensional virtual models of the human middle ear and temporal bone  
*N. Merchant<sup>1</sup>, H. Wang<sup>1</sup>, C. Northrop<sup>1</sup>, MS. Sorensen<sup>2</sup>, Boston; USA<sup>1</sup>, Copenhagen; Denmark<sup>2</sup>*
- 11.8                    Demonstration of aeration pathways in the human epitympanum  
*D. Morris<sup>1,2</sup>, R. van Wijhe<sup>1,2</sup>, K. Kirkpatrick<sup>1</sup>, S. Levine<sup>3</sup>, C. Northrop<sup>3</sup>, B. Manohar<sup>1,2</sup>, Halifax; Canada<sup>1,2</sup>, Boston; USA<sup>3</sup>*
- 15.30**                    **Coffee break – visit of the technical exhibition – poster viewing**
- 16.00**                    **Round Table 2 – Implantable hearing aids**  
Moderator:            R. L. Goode, Stanford; USA  
Panelists:             V. Colletti, Verona; Italy  
                              N. Dillier, Zurich; Switzerland  
                              B. Håkansson, Göteborg; Sweden  
                              R. Häusler, Berne; Switzerland  
                              S. Puria, Stanford; USA
- 17.00**                    **Poster Award Ceremony**  
Invitation to MEMRO 2009
- 17.30**                    **Closing**



- P1 Tympanic membrane structure analysis and tissue engineering  
*KS. Anandacoomaraswamy<sup>1</sup>, T. Robertson<sup>2</sup>, N. Dutton<sup>2</sup>,  
RH. Eikelboom<sup>1</sup>, MD. Atlas<sup>3</sup>, GP. Rajan<sup>3</sup>, Perth; Australia<sup>1,2,3</sup>*
- P2 Bone conduction and air conduction hearing comparison  
*M. Bance, Halifax; Canada*
- P3 Investigation on bone conduction thresholds in otosclerosis  
*A. Arnold<sup>1</sup>, T. Fawzy<sup>2</sup>, F. Böhnke<sup>2</sup>,  
Berne; Switzerland<sup>1</sup>, Munich; Germany<sup>2</sup>*
- P4 Transcranial attenuation of bone conducted sound measured  
acoustically and psycho acoustically  
*S. Reinfeldt<sup>1</sup>, S. Stenfelt<sup>2</sup>, B. Håkansson<sup>1</sup>,  
Göteborg<sup>1</sup>, Linköping<sup>2</sup>; Sweden*
- P5 Infectious etiology of SNHL in cochlear implant child in Iran  
*SA. Noorbakhsh<sup>1</sup>, MO. Farhadi<sup>2</sup>, AZ. Tabatabaei<sup>3</sup>, Tehran; Iran<sup>1,2,3</sup>*
- P6 The effects of slight and rapid pressure oscillations on the pars  
flaccida in gerbil and rabbit ears.  
*LA. Didyk<sup>1</sup>, VB. Bogdanov<sup>2</sup>, VA. Lysenko<sup>2</sup>, YP. Gorgo<sup>2</sup>, J. Dirckx<sup>3</sup>,  
Kiev; Ukraine<sup>1,2</sup>, Antwerp; Belgium<sup>3</sup>*
- P7 Biomechanical modeling and design optimization of cartilage  
myringoplasty using finite element analysis  
*CF. Lee<sup>1</sup>, LP. Hsu<sup>2</sup>, PR. Chen<sup>2</sup>, YF. Chou<sup>3</sup>, JH. Chen<sup>3</sup>, TC. Liu<sup>3</sup>,  
Taipei; Taiwan<sup>1,2,3</sup>*
- P8 Computer modelling of static pressure changes in the middle ear  
*EW. Abel<sup>1</sup>, C. Mao<sup>2</sup>, RP. Mills<sup>3</sup>, Dundee; UK<sup>1,2</sup>, Edinburgh; Scotland<sup>3</sup>*
- P9 High resolution 3-D imaging and modelling of middle ear ossicles  
and soft tissue structures of intact Gerbil temporal bones, using  
orthogonal-plane fluorescence virtual sectioning  
*J. Buytaert, J. Dirckx, Antwerp; Belgium*
- P10 Hyperelastic warping applied to x-ray micro CT images for the study  
of human middle ear chain deformations under static pressure load  
*SL. Gea<sup>1</sup>, SA. Maas<sup>2</sup>, WF. Decraemer<sup>1</sup>, H. Maier<sup>3</sup>, JJ. Dirckx<sup>1</sup>,  
Antwerp; Belgium<sup>1</sup>, Utah; USA<sup>2</sup>, Hamburg; Germany<sup>3</sup>*

- P11 Three-dimensional reconstruction and modeling of middle ear biomechanics using high resolution computed tomography and finite element analysis  
*TC. Liu<sup>1</sup>, CF. Lee<sup>2</sup>, WJ. Lee<sup>3</sup>, JH. Chen<sup>2</sup>, Taipei; Taiwan<sup>1,2,3</sup>*
- P12 Imaging findings in Otosclerosis, a review study  
*UL. Lachmund<sup>1</sup>, AT. Pangalu<sup>1</sup>, A. Huber<sup>2</sup>, AN. Valavanis<sup>1</sup>, Zurich; Switzerland<sup>1,2</sup>*
- P13 Morphology of the tympanic membrane insertion into the temporal bone in humans  
*I. Leuchter<sup>1</sup>, A. Pollak<sup>2</sup>, I. Hegyi<sup>3</sup>, A. Huber<sup>2</sup>, Lausanne<sup>1</sup>, Zurich<sup>2,3</sup>; Switzerland*
- P14 Real-time opto-electronic holographic measurements of sound-induced tympanic-membrane displacements  
*JJ. Rosowski<sup>2</sup>, C. Furlong<sup>3</sup>, ME. Ravicz<sup>1</sup>, MT. Rodgers<sup>3</sup>, Boston<sup>1,2</sup>, Worcester<sup>3</sup>; USA*
- P15 Tele-otology - a tool for education and telemedicine  
*RH. Eikelboom<sup>1</sup>, MA. Gallop<sup>1</sup>, R. Marino<sup>1</sup>, F. Sutherland<sup>3</sup>, MD. Atlas<sup>2</sup>, GP. Rajan<sup>2</sup>, Perth<sup>1,2</sup>, Darwin<sup>3</sup>; Australia*
- P16 Anatomy of the distal incus and lenticular process in the human  
*W. Chien<sup>1</sup>, WT. Peake<sup>2</sup>, C. Northrop<sup>1</sup>, SN. Merchant<sup>1</sup>, Boston<sup>1</sup>, Cambridge<sup>2</sup>; USA*
- P17 Do mesenchymal stem cells enhance the healing of chronic tympanic membrane perforations?  
*AN. Rahman<sup>1</sup>, M. von Unge<sup>2</sup>, PE. Olivius<sup>2</sup>, GR. Mergolin<sup>2</sup>, MA. Hultcrantz<sup>2</sup>, Stockholm; Sweden<sup>1,2</sup>*
- P18 Identification of human papilloma virus DNA in chronic otitis media and middle ear neoplasms  
*B. Rydzewski<sup>1</sup>, A. Gozdzicka-Józefiak<sup>2</sup>, R. Podskarbi-Fayette<sup>1</sup>, M. Matusiak<sup>1</sup>, Poznan; Poland<sup>1,2</sup>*
- P19 In vitro study of the coupling load required for the otologics middle ear transducer MET  
*MM. Maassen, M. Pfister, HP. Zenner, R. Ciuman, J. Rodriguez Jorge, Tübingen; Germany*

- P20 Influence of the cochlear implant electrode on the mechanical function of the inner ear  
*D. Bodmer<sup>1</sup>, S. Bonabi<sup>2</sup>, A. Huber<sup>3</sup>, Zurich; Switzerland<sup>1,2,3</sup>*
- P21 Laser doppler velocimetric data in young normal hearing subjects  
*J. Rodriguez Jorge, J. Tielemans, MM. Maassen, HP. Zenner, Tübingen; Germany*
- P22 Prognostic factors of chronic otitis media  
*V. Chrobok, A. Pellant, M. Meloun, K. Pokorný, E. ěimáková, Hradec Králové; Czech Republic*
- P23 Relative rate of otosclerosis among first and second degree relatives of otosclerotic patients referred to otolaryngology department of Isfahan medical university - Iran  
*SA. Soheilipour, NE. Berjis, SH. Nemat, Isfahan; Iran*
- P24 An animal model of hearing loss in superior-canal dehiscence syndrome  
*J. Songer, M. Wood, J. Rosowski, Boston; USA*
- P25 Sensory hearing loss in children with Mumps infection  
*SA. Noorbakhsh<sup>2</sup>, AH. Siadati<sup>2</sup>, Tehran; Iran<sup>1,2</sup>*
- P26 Epidemiology of pressure regulation. Incidence of ventilation tube treatments and its preliminary correlation to subsequent ear surgery  
*M. Gaihede<sup>1</sup>, K. Hald<sup>1</sup>, M. Nørgaard<sup>2</sup>, P. Wogelius<sup>2</sup>, D. Buck<sup>2</sup>, K. Tveterås<sup>1</sup>, Aalborg; Denmark<sup>1,2</sup>*
- P27 Morpho-functional partition of the middle ear cleft  
*B. Ars<sup>1</sup>, J. Dirckx<sup>2</sup>, Antwerp; Belgium<sup>1,2</sup>*
- P28 DPOAE following stapes surgery: Stapedectomy versus stapedotomy  
*L. Migirov, Tel Hashomer; Israel*
- P29 Stapesplasty: Comparison of conventional technique with CO<sub>2</sub>-laser-stapedotomy using single-shot technique  
*J. Rodriguez Jorge, MM. Maassen, HP. Zenner, Tübingen; Germany*
- P30 The deep exploration of tympanum  
*JÁ. Szócska, ER. Füle, Nyíregyháza; Hungary*

- P31            Histological assessment of the ossicular autografts used in  
Tympoplasty  
*SA. Tawfik<sup>1</sup>, SH. Rady<sup>2</sup>, MA. Bassiouny<sup>1</sup>, Alexandria; Egypt<sup>1,2</sup>*
- P32            Laser doppler vibrometry data of the Clip piston MVP  
*A. Arnold, CH. Stieger, R. Häusler, Berne; Switzerland*
- P33            Ossiculoplasty with titanium prostheses  
*M. Romer, M. Vorburger, A. Huber, Zurich; Switzerland*
- P34            Long-term study of "Vibrant® Soundbridge"  
implantable hearing aids  
*H. Mojallal, S. Rose, T. Lenarz, Hannover; Germany*
- P35            Testing a method for quantifying the output of implantable  
middle ear hearing devices  
*JJ. Rosowski<sup>1</sup>, W. Chien<sup>2</sup>, ME. Ravicz<sup>1</sup>, SN. Merchant<sup>2</sup>, Boston; USA<sup>1,2</sup>*

Friday, July 28, 2006



**12.15 -  
13.15**                      **Lunch Symposium Cochlear**

Panelists:                      B. Håkansson, Göteborg; Sweden  
   R. Häusler, Berne; Switzerland  
   Th. Lenarz, Hannover; Germany  
   D. Proops, Birmingham; UK  
   T. Roland, New York; USA

Saturday, July 29, 2006



12.15 - **Lunch Symposium Vibrant Med-El Hearing Technology GmbH**  
13.15

Introduction

*R. Markert, Innsbruck; Austria*

Vibroplasty techniques in mixed hearing losses

*A. Huber, Zurich; Switzerland*

The Vibrant Soundbridge on the round window for difficult-to-treat middle ear problems

*V. Colletti, Verona; Italy*

Vibrant Surgical Roundtable:

New indications for middle ear implants

Moderator: W. D. Baumgartner, Wien; Austria

Thursday, July 27, 2006

18.00 –  
20.00

## Welcome Reception

All participants are cordially invited to take part at the welcome reception at the "ETH Dozenten Foyer" located at the ETH (Swiss Federal Institute of Technology) Main Building, Rämistrasse 101, Zurich (see on page 30).

Friday, July 28, 2006

20.00 –  
23.30

## MEMRO Dinner

Aperitif and Dinner at the Lake Side Casino Zürichhorn.

Costs: EUR 50.00 per person  
(includes aperitif, dinner and beverages).



([www.lakeside.ch](http://www.lakeside.ch))

## Accompanying Program

A program for accompanying persons will be organised on demand.



Sunday, July 30, 2006

07.00 –  
15.00

## Excursion to Central Switzerland

Bus ride to Lucerne where the boat takes us to Alpnachstad. With the world's steepest cogwheel railway to Mount Pilatus and lunch on the summit. The gondola takes us back to Lucerne.

Bus ride back to Zurich.

07.00 Bus departure in Zurich from the Hospital

11.30 Lunch on Mount Pilatus

15.00 Back in Zurich

Costs: EUR 80.00 per person  
(includes bus, railway, aerial cableway, lunch, boat trip)



[www.pilatus.ch](http://www.pilatus.ch)



**Oral Presentations and Posters**

Keynote lectures last 30 minutes; for invited and free papers 10 minutes presentation time are reserved, additionally 2 minutes are allotted for discussion.

The posters will be presented in a poster exhibition.

The highest rated posters will receive a prize in the **Poster Award Ceremony**.

Prize sponsored by



Poster Jury:

Scientific Committee and International Guest Faculty

**Speaker Service**

All accepted abstracts will be published in an abstract book and distributed onsite to all congress participants.

The audio-visual preview center is located next to the registration. Please note that only digital material will be allowed for oral presentations. The material must be in English and must be provided on CD-ROM or USB Memory Stick to be placed on the central server onsite. **It will not be possible to use your own laptop computer for your presentation in the session room.**

It is mandatory that the data carriers are delivered to the AV & Preview Desk at least 1 hour prior to the session. The computers in the lecture rooms are equipped with Microsoft Windows XP and Microsoft Office XP.

The material remains the property of the speakers and will not be re-used by MEMRO 2006 without your permission. Your data will be deleted after the congress.

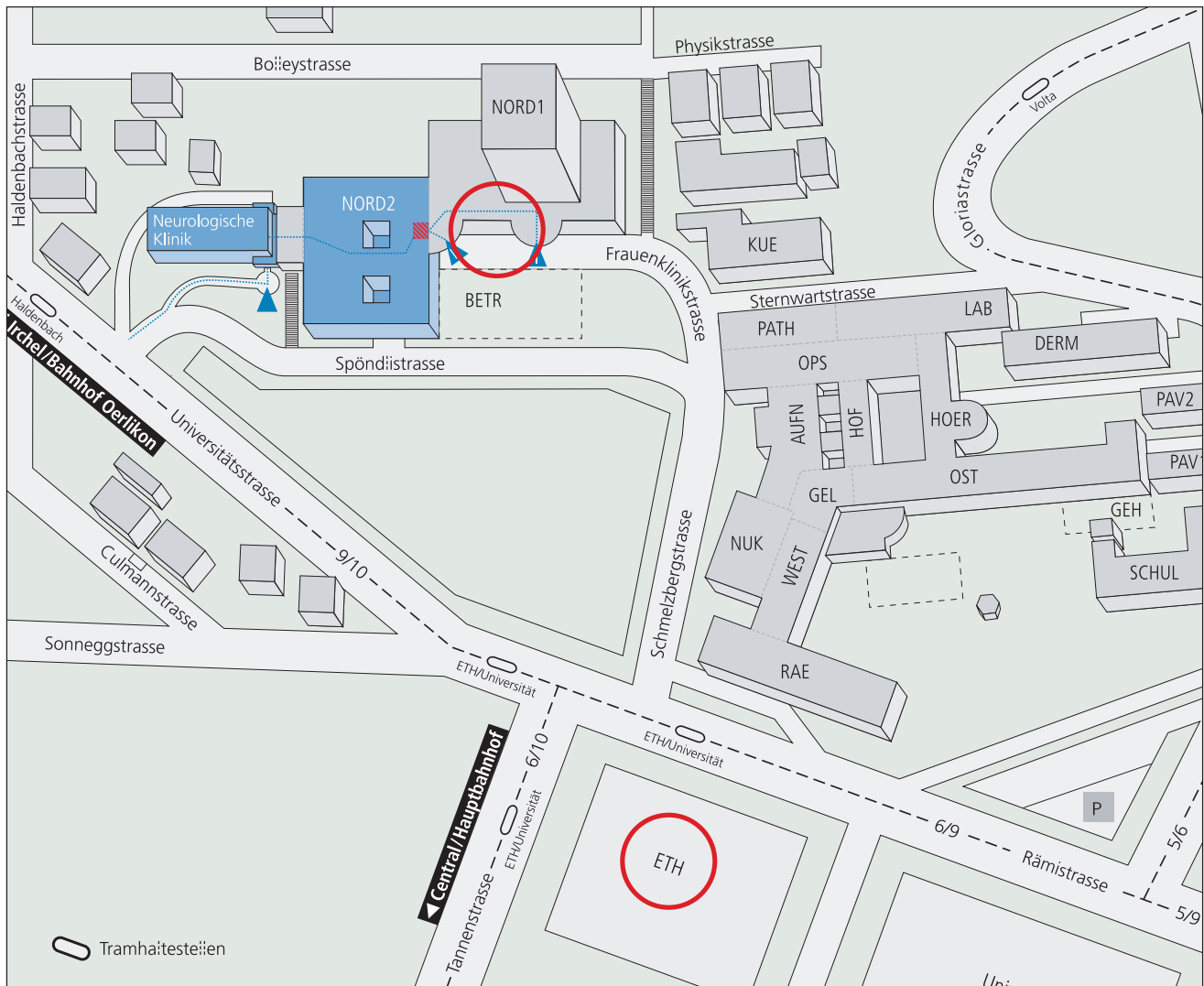
**Credit Allowance**

MEMRO 2006 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME). The EACCME is an institution of the European Union of Medical Specialists (UEMS), [www.uems.be](http://www.uems.be). MEMRO 2006 is designated for European external CME credits. EACCME credits are recognized by the American Medical Association towards the Physician's Recognition Award (PRA). To convert EACCME credit to AMA PRA category 1 credit, please contact the AMA. The EACCME has granted 18 European CME credits (ECMEC) to the symposium.

MEMRO 2006 is given 24 credit points by SGORL.

## Congress Venue

University Hospital Zurich, Lecture Hall NORD 1  
Frauenklinikstrasse 10  
CH-8091 Zurich  
Phone/Fax: +41 44 255 96 06  
(only valid during the meeting)



## Registration and Payment

Online registration is accepted on [www.memro.org](http://www.memro.org). Registrations will be confirmed after your payment. Please use online registration to your earliest convenience. Onsite registration is reserved for exceptional cases only.

## Registration Fees

EUR 400.00 Regular registration  
EUR 200.00 Residents/Students\*

\*to be accompanied by certificate signed by head of department and faxed to +41 44 809 42 81

The registration fee includes access to the scientific sessions, congress documents, coffee breaks, lunches and the welcome reception on Thursday. Please note, that the

Participant's Dinner (EUR 50.00) on Friday and the Excursion on Sunday (EUR 80.00) are not included in the registration fee. A reservation is necessary and can be booked together with your registration on [www.memro.org](http://www.memro.org).

## Public Transport

Transfer from the airport to the town by railway (in the airport building) every ten minutes. Transfer from Zurich main station to the Hospital with Tram 6 (direction Zoo or Fluntern) and 10 (direction Irchel).  
Tramstation ETH/Universität.

Only very limited parking space at the Hospital.

## Certificate of Attendance

You will obtain your certificate of attendance onsite at the registration desk.

## Proceedings

A volume of contributions will be published after the symposium. Manuscripts can be submitted until **July 30, 2006** by e-mail to [proceedings@memro.org](mailto:proceedings@memro.org). Please find layout and formatting instructions on [www.memro.org](http://www.memro.org).

## Badges

For organizational and security reasons, badges have to be worn at the congress venue. In case of loss, a replacement badge will only be provided against payment of EUR 30.00.

## Disclaimer

MEMRO 2006 and the congress organizer cannot accept any liability for the acts of any suppliers to this meeting nor the safety of any attendee while in transit to or from this event. All participants are strongly advised to carry proper travel and health insurance as MEMRO 2006 and the congress organiser cannot accept any liability for any accidents or injuries that may occur.

## Language

English is widely spoken and understood throughout the country. The official congress language is English.

## Industrial Exhibition

An industrial exhibition is organized at the Congress Venue. It will be open throughout the congress.



## **Museums & Art**

Zurich and the surrounding region is home to the biggest number of museums and exhibitions in the whole of Switzerland. The Kunsthaus is one of Europe's foremost museums of art and host to a series of constantly changing exhibitions. Art, architecture, painting and objects of interest from the past and present. Zurich is culture!

For example:

### **Kunsthaus Zurich**

[www.kunsthaus.ch](http://www.kunsthaus.ch)

### **Swiss National Museum**

[www.musee-suisse.ch](http://www.musee-suisse.ch)

## **Places of interests**

For example:

### **Bahnhofstrasse**

The main shopping zone is concentrated in the city center, which makes it ideal for pedestrians. The famous Bahnhofstrasse – one of the most beautiful shopping areas in Europe – is a must. Elegant fashion stores, department stores, boutiques with top quality products (shoes, furs, accessories, porcelain, jewellery and watches), banks and pastry shops. [www.bahnhofstrasse-zuerich.ch](http://www.bahnhofstrasse-zuerich.ch)

### **Fraumünster Church**

Founded in 853 by King Louis the German, this church with its convent was inhabited by the female members of the aristocracy of southern Germany. Important architectural features include the Romanesque choir and the high vaulted transept. In addition to the largest organ in the canton (5'793 pipes), its most stunning jewels are the stained glass windows: those in the north transept are by Alberto Giacometti's cousin, Augusto (1945), the five-part cycle in the choir (1970) and the rosette in the southern transept (1978) are by Marc Chagall.

### **Masoala Rainforest in Zurich**

At the Zurich Zoo you will find an authentic rainforest experience with animals and plants. The display of these treasures and wonders of nature on an area of around 10'000 m<sup>2</sup> will certainly fascinate young and old. The zoo shows the causes of the disappearance of forests, but also projects that help conserve the forests.

[www.zoo.ch](http://www.zoo.ch)

Please find more information about Zurich on [www.zuerich.com](http://www.zuerich.com)

## Hotel Booking

Special congress rates are available in a number of selected hotels. Participants are requested to make their reservations individually mentioning the code name MEMRO 2006. Rates are in CHF, per night, per room including breakfast, services and taxes. All rooms with bath/shower. More information about other hotels or any information about Zurich on [www.zuerich.com](http://www.zuerich.com).

Location (see map)	Single CHF	Double CHF	Homepage
1 **** Rigi Hof	120.00	180.00	<a href="http://www.hotel-rigihof.ch">www.hotel-rigihof.ch</a>
2 **** Claridge Hotel Tiefenau	179.00	299.00	<a href="http://www.tiefenau.ch">www.tiefenau.ch</a>
3 **** Central Plaza Hotel	250.00	250.00	<a href="http://www.central.ch">www.central.ch</a>
4 **** Sorell Hotel Zürichberg	240.00	270.00	<a href="http://www.zuerichberg.ch">www.zuerichberg.ch</a>
5 **** Storchen	305.00 - 405.00	530.00	<a href="http://www.storchen.ch">www.storchen.ch</a>
6 **** Arabella Sheraton	325.00 - 375.00	425.00	<a href="http://www.arabellasheraton.com">www.arabellasheraton.com</a>
7 *** St. Josef	145.00	185.00	<a href="http://www.st-josef.ch">www.st-josef.ch</a>
8 *** Romantik Hotel Florhof	245.00	360.00	<a href="http://www.florhof.ch">www.florhof.ch</a>
9 *** Novotel	185.00	185.00	<a href="http://www.novotel-zurichcity.ch">www.novotel-zurichcity.ch</a>
10 ** Ibis	115.00	129.00	<a href="http://www.ibishotel.com">www.ibishotel.com</a>

## Currency

The currency of Switzerland is the Swiss Franc. Euro and all major credit cards are widely accepted. The congress fees will be in Euro.

1 Swiss Franc = approx. 0.65 Euro (date of printing)

1 Swiss Franc = approx. 0.82 USD

## Travel Arrangements



Swiss International Air Lines is the official carrier of MEMRO 2006 and is offering special congress fares to all participants.

These congress fares offer reductions of up to 25% depending on the fare type, route and space availability.

Congress fares are valid for all flights to Switzerland on the entire SWISS network, including flights operated by partner airlines under the LX flight number (except British Airways operated flights).

To take advantage of these special congress fares, please contact your local SWISS travel office or any designated ticketing agent (<http://www.swiss.com/web/contacts-worldwide-offices.htm>) and quote the **tourcode CXX6065**.



9 10



The walking distance between the main station and the University Hospital is approx. 15 minutes.





MEMRO 2006 wishes to express its gratitude to all collaborators and volunteers for this meeting. Particulary the participation and contribution of the following companies is much appreciated and gratefully acknowledged.

### Main Sponsors



VIBRANT MED-EL GmbH, A-6020 Innsbruck  
Symposium, Poster Prize



Cochlear AG, CH-4053 Basel  
Symposium

### Sponsor



Heinz Kurz GmbH, DE-72144 Dusslingen  
Coffee Break

### Exhibitors



AstraZeneca AG, CH-6301 Zug



Cochlear AG, CH-4053 Basel



Heinz Kurz GmbH, DE-72144 Dusslingen



Leica Microsystems (Schweiz) GmbH, CH-8152 Glattbrugg



Polytec GmbH, DE-76337 Waldbronn



Surgical Device GmbH, CH-6330 Cham



VIBRANT MED-EL GmbH, A-6020 Innsbruck

MEMRO 2006 Congress Management  
c/o SCSM AG  
Flughofstrasse 37  
CH-8152 Zürich-Glattbrugg

Phone +41 44 809 42 80  
Fax +41 44 809 42 81  
[memro@congressorg.ch](mailto:memro@congressorg.ch)  
[www.congressorg.ch](http://www.congressorg.ch)