Wednesday, 14.06.2006

Zeremoniensaal

MED-EL Symposium

13:00 – 18:00

**MED-EL – S1** 30 min  Opening

**MED-EL – S2** 10 min  MED-EL: The Hearing Implant Company
Ingeborg Hochmair (Innsbruck – Austria)

**MED-EL – S3** 10 min  Outcomes with the MED-EL DUET speech processor
Artur Lorens (Warsaw – Poland)

**MED-EL – S4** 10 min  First results using the FLEX electrode
Jan Kiefer (Munich – Germany)

**MED-EL – S5** 10 min  MED-EL Rehabilitation tools: supporting your users
Geoff Plant (Arlington – USA)

**MED-EL – S6** 10 min  VIBRANT Soundbridge – Vibroplasty techniques in mixed hearing losses
Bruno Frachet (Bobigny – France)

**MED-EL – S7** 10 min  The MED-EL VSB on the round window for difficult-to-treat middle ear problems
Vittorio Colletti (Verona – Italy)

**MED-EL – S8** 40 min  VIBRANT Round table
Milo Beltrame (Rovereto – Italy)
Christian Streitberger (Meran – Italy)
Vittorio Colletti (Verona – Italy)
Thomas Lenarz (Hannover – Germany)
Olivier Sterkers (Clichy – France)
Bruno Frachet (Bobigny – France)

**MED-EL – S9** 40 min  Coffee

**MED-EL – S10** 60 min  MED-EL Cochlear Implant Systems: Latest Developments and Innovations

**MED-EL – S11** 70 min  Champagne Reception
Advanced Bionics
and
the Organising Committee of the 9th International Conference on Cochlear Implants and Related Sciences

kindly invites you to the

Opening Ceremony and Welcome Reception
at the
Castle Belvedere

Buffet
Classical music
Musical show
Free access to the famous paintings of Klimt, Schiele, Kokoschka, ..

End
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Duration</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>F1 – O1</td>
<td>Auditory nerve electrode with acoustic and electric stimulation and recording of nerve and evoked brain potentials in cats</td>
<td>8 min</td>
<td>Walter F. Thumfart, Peter Finkenzeller (Innsbruck – Austria; Erlangen – Germany)</td>
</tr>
<tr>
<td>F1 – O2</td>
<td>Insights on auditory prosthesis design from animal models</td>
<td>10 min</td>
<td>Patricia A. Leake (San Francisco – USA)</td>
</tr>
<tr>
<td>F1 – O3</td>
<td>Estimating frequencies for cochlear implant electrodes</td>
<td>10 min</td>
<td>Patricia A. Leake, Olya Stakhovskaya (San Francisco – USA)</td>
</tr>
<tr>
<td>F1 – O4</td>
<td>Innervation of the apical turn of the human cochlea – Implication for cochlear implantation</td>
<td>8 min</td>
<td>Malin Anderson, Lucia Pamulova, Helge Rask-Andersen (Uppsala – Sweden)</td>
</tr>
<tr>
<td>F1 – O5</td>
<td>Ultrastructure, innervation and organisation of the human cochlea</td>
<td>8 min</td>
<td>Rudolf Glueckert, Helge Rask-Andersen, Kristian Pfaller, Anneliese Schrott-Fischer (Innsbruck – Austria; Uppsala – Sweden)</td>
</tr>
<tr>
<td>F1 – O6</td>
<td>Representation of acoustic signals in the human cochlea in presence of a cochlear implant electrode</td>
<td>8 min</td>
<td>Jan Kiefer, Frank Böhnhke, Oliver Adunka, Wolfgang Arnold (Munich – Germany)</td>
</tr>
<tr>
<td>F1 – O7</td>
<td>Electrical frequency-place map in subjects with no or minor hearing loss</td>
<td>8 min</td>
<td>Katrien Vermeire, Andrea Nobbe, Peter Schleich, Paul Van de Heyning (Antwerp – Belgium; Innsbruck – Austria)</td>
</tr>
<tr>
<td>F1 – O8</td>
<td>Cortical tonotopic reorganization over time</td>
<td>8 min</td>
<td>Jeanne Guiraud, Julien Besle, Laure Arnold, Patrick Boyle, Eric Truy, Lionel Collet (Lyon – France)</td>
</tr>
<tr>
<td>F1 – O9</td>
<td>Preservation of hearing following long-term cochlear implantation</td>
<td>8 min</td>
<td>Robert Shepherd, Anne Coco, Stephanie Epp, James Fallon, Jin Xu, Rodney Millard (Melbourne – Australia)</td>
</tr>
<tr>
<td>F1 – O10</td>
<td>Voxel based statistical analysis method for animal PET studies to assess the cerebral glucose metabolism in cat deafness model</td>
<td>8 min</td>
<td>Seung Ha Oh, Jin Su Kim, Jae Sung Lee, Min-Hyun Park, Hyejin Kang, Sang-Moo Lim, June-Key Jung, Myung Chul Lee, et al. (Seoul – Korea)</td>
</tr>
<tr>
<td>F1 – O11</td>
<td>Developmental myelination of central auditory pathway in congenital profound sensorineural hearing loss revealed by MRI</td>
<td>8 min</td>
<td>Masaki Sano, Kimitaka Kaga, Kazuo Mima (Tokyo – Japan)</td>
</tr>
</tbody>
</table>
Thursday, 15.06.2006

**Rehabilitation (F2)**

Chair: Sue Archbold, Bodo Bertram

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**F2 – O1**  8 min  Monitoring early vocal development in infants and young children  
D. Kimbrough Oller (Memphis – USA)

**F2 – O2**  8 min  Language development with a cochlear implant for meningitic deafness  
Mattheus Vischer, Christoph Schimdt, Luzia Blaser, Martin Kompis, Eberhard Seifert, Rudolf Häusler (Berne – Switzerland)

**F2 – O3**  8 min  Language development at one year post-implantation in young children  
Emily A. Tobey, Laurie S. Eisenberg, Alexandra L. Quittner, Nancy E. Fink, Nae-Yu Wang, John K. Niparko, And the CDaCI Investigative Team (Multicenter – USA)

**F2 – O4**  8 min  Assessment and rehabilitation of children with auditory neuropathy  
Carlton Zdanski, Holly Teagle, Patricia Roush, Allison Cleland, Craig Buchman, Carolyn Brown (Chapel Hill – USA)

**F2 – P5**  3 min  Formulation of language structures of filipino cochlear implanted children in a bilingual setting  
Leah M. Labrador, Georgina D. Mojica (Manila – Philippines)

**F2 – O6**  8 min  The effects of implantation age on theory of mind of cochlear implanted pre-lingually deaf children  
Hassanzadeh Saeid, Farhadi Mohammad, Emamdjomeh Hessam, Daneshi Ahmad (Teheran – Iran)

**F2 – P7**  3 min  Learning speech with shifted frequency-to-place maps  
Andrew Faulkner, Stuart Rosen, Matthew Smith, Catherine Siciliano (UK)

**F2 – P8**  3 min  Becoming bilingual: English and Spanish speech and language development following cochlear implantation  
Jan A. Moore, Scott Prath, Adrianne Arrieta, Emily Lauher (Austin – USA)
F2 – O9 8 min  The rate of development of phoneme accuracy in children following cochlear implantation as a function of age of implant
Jan A. Moore (Austin – USA)

F2 – O10 8 min  The development of consonant-vowel syllables in children following cochlear implantation
Jan A. Moore (Austin – USA)

F2 – O11 8 min  Phonological distance measures for cochlear implant users
Nathan Sanders, Steven Chin (Indianapolis – USA)

F2 – P12 3 min  Cochlear implantation improves developmental rate in children with global delay
John S. Oghalai, Lawrence M. Simon, Jody Haymond, Ross Tonini, Susan E. Caudle, Dian Baker (Houston – USA)

F2 – P13 3 min  Stability of vowel space and vowel placement
Ross Tonini, Jamie Rasmus (Houston – USA)

F2 – P14 3 min  Benefit of language software for prelingual teen / adult CI users
Ellen S. Thomas, Terry Zwolan (Ann Arbor – USA)

F2 – P15 3 min  Custom made computer program for hearing training of CI patients
Jozsef Pytel, Adrien Nemeth, Tamas Jarai, György Kellenyi (Pecs – Hungary)

F2 – P16 3 min  Discrimination of spectrally rippled noise and speech understanding
Annelies Vermeiren, Filiep Vanpoucke, Andrzej Zarowski, Erwin Offeciers, Stefaan Peeters (Antwerp – Belgium)

F2 – O17 8 min  Perception of emotion by cochlear implant users
Julie Brinton, Jenny Loo, Sarah Isherwood (Southampton - UK)

F2 – O18 8 min  The effects of training on timbre recognition
Virginia Driscoll, Arik Wald, Jacob Oleson, Jay Rubinstein, Kate Gfeller (Iowa City – USA)

F2 – P19 3 min  Speech perception in noise in CI systems with different microphones
Juliane Wechtenbruch, John Martin Hempel, Tobias Rader, Uwe Baumann (Munich – Germany)

F2 – P20 3 min  Fitting children with implants with personal FM systems
Lynne Brewster, Joy Gauvreau (Saskatoon - Canada)

Lunch Buffet
**Thursday, 15.06.2006**

**Surgery (F3)**
Chair: Thomas Balkany, Jan Helms

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<tr>
<th>Session</th>
<th>Duration</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3 – O1</td>
<td>10 min</td>
<td>Protection against trauma induced hearing loss by mild hypothermia</td>
<td>Thomas J. Balkany, Lee P. Smith, Adrien A. Eshraghi, Thomas R. Van De Water (Miami – USA)</td>
</tr>
<tr>
<td>F3 – O2</td>
<td>8 min</td>
<td>Surgical considerations in cochlear implant in children with normal and anomalous ears</td>
<td>Keli Cao, Xiaowei Chen, Chaogang Wei, Xin Jin, Yi Wang, Hua Yang, Line Wang, Zhen Wang (Beijing – China)</td>
</tr>
<tr>
<td>F3 – O3</td>
<td>8 min</td>
<td>&quot;Deep&quot; insertion of the electrode up to the apex of the cochlea</td>
<td>Jan Helms, Joachim Müller, Franz Schön (Würzburg – Germany)</td>
</tr>
<tr>
<td>F3 – O4</td>
<td>8 min</td>
<td>Effects of electrode placement and place of stimulation on speech perception with cochlear implants in adults and children</td>
<td>Joachim Müller, Franz Schön, Stefan Brill, Alexander Möltner, Jan Helms, Rudolf Hagen (Würzburg – Germany)</td>
</tr>
<tr>
<td>F3 – O5</td>
<td>8 min</td>
<td>Cochlear implantation in chronic otitis media and subfacial route</td>
<td>Gürol Gültekin, Levent Olgun, Gül Caner, Tuncay Kodap, Alper Sezaver (Izmir – Turkey)</td>
</tr>
<tr>
<td>F3 – O6</td>
<td>8 min</td>
<td>Management of chronic otitis and mastoiditis in children after cochlear implantation</td>
<td>Joachim Müller, Gerald Baier, Christian Knaus, Jan Helms, Rudolf Hagen (Würzburg – Germany)</td>
</tr>
<tr>
<td>F3 – O7</td>
<td>8 min</td>
<td>Adjusting flap thickness over implant package</td>
<td>Ahmed Handoussa (Doha – Qatar)</td>
</tr>
<tr>
<td>F3 – O8</td>
<td>8 min</td>
<td>Electrode lead fixation at posterior tympanotomy using sialastic wedge</td>
<td>Ahmed Handoussa (Doha – Qatar)</td>
</tr>
<tr>
<td>F3 – O9</td>
<td>8 min</td>
<td>Surgical management to problems of cochlear implantation</td>
<td>Chong-Sun Kim, Sun O Chang, Seung-Ha Oh, Min-Hyun Park, Jae-Jun Song, Dong-Gu Hur (Seoul – Korea)</td>
</tr>
<tr>
<td>F3 – O10</td>
<td>8 min</td>
<td>Revision cochlear implant surgery in children</td>
<td>Robert Cullen, Jose Fayad, William Luxford, Laurie Eisenberg, Carolyn Brown, Holly Teagle, Harold Pillsbury, Craig Buchman (Los Angeles, Chapel Hill – USA)</td>
</tr>
<tr>
<td>F3 – O11</td>
<td>8 min</td>
<td>Cochlear Re-implant</td>
<td>Orozimbo Alves Costa, Maria Cecilia Bevilacqua, Katia Freitas Alvarenga, Leandra Tabanez Nascimento, Rachel Stuchi (Sao Paulo – Brazil)</td>
</tr>
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</table>
9th INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS AND RELATED SCIENCES
14.06 – 17.06.2006
Hofburg Congress Center
Vienna, Austria

F3 – O12  8 min  Contralateral re-implantation – is there a problem?
Christopher Raine, David Strachan, Jane Martin, Catherine Totten, Lynne Jamieson,
Maurice Hockman (Bradford – UK; Johannesburg – South Africa)

F3 – O13  8 min  Pediatric cochlear re-implantation
Levent Olgun, Gürol Gültekin, Gül Caner, Alper Sezaver, Taşkını Tokat (Izmir – Turkey)

Coffee Break

Thursday, 15.06.2006
Festsaal

Genetics (F4)  16:30 – 18:00
Chair: Karen Avraham, Klemens Frei

F4 – O1  10 min  How genetics can help cochlear implantation: the Otoferlin story
Ignacio del Castillo (Madrid - Spain)

F4 – O2  10 min  Connexin deafness and speech perception outcome of cochlear implants
Karen B Avraham, Zippora Brownstein, Riki Taitelbaum-Sweed, Chawa Muchnik, Liat
Kishon-Rabin, Jona Kronenberg, Lela Migirov, Minka Hildesheimer (Tel Aviv - Israel)

F4 – O3  8 min  Auditory neuropathy of genetic aetiology caused by OTOF Gene
mutation
Constantino Morera, Laura Cavallé, Diego Collado, Felipe Moreno (Valencia, Madrid –
Spain)

F4 – O4  8 min  IL4R polymorphism is associated with sudden deafness in Koreans
Sung-II Nam, Dong-Eun Kim, Youn- Ho Park, Sun-Ho Park (Daegu – Korea)

F4 – O5  8 min  Clinical spectrum of Cx26 caused hearing impairment in Austria
Romana Volker, Reinhard Ramsebner, Trevor Lucas, Gertrude Hamader, Wolf-Dieter
Baumgartner, Karin Kirschhofer, Klemens Frei (Vienna – Austria)
F4 – O6  8 min  Pathological effects of Cx26 alterations  
Trevor Lucas, Romana Volker, Reinhard Ramsebner, Gertrude Hamader, Christian Schöfer, Wolf-Dieter Baumgartner, Franz J Wachtler, Karin Kirschhofer, Klemens Frei (Vienna – Austria)

F4 – O7  8 min  Connexin 26 caused hearing impaired patients - candidates for CI  
Klemens Frei, Trevor Lucas, Reinhard Ramsebner, Romana Volker, Gertrude Hamader, Christian Schöfer, Wolf-Dieter Baumgartner, Karin Kirschhofer (Vienna – Austria)

F4 – O8  8 min  Genetic testing within the Austrian newborn screening program for hearing impairment  
Reinhard Ramsebner, Trevor Lucas, Romana Volker, Gertrude Hamader, Klara Weipoltshammer, Wolf-Dieter Baumgartner, Franz J Wachtler, Karin Kirschhofer, Klemens Frei (Vienna – Austria)

F4 – O9  8 min  Good speech recognition and quality of life scores after CI in patients with DFNA9  
Katrien Vermeire, Jan Brokx, Paul Van de Heyning (Antwerp, Maastricht – Belgium)

F4 – O10  8 min  Speech and language disorder in deaf children – is this part of the phenotype?  
Deidre Lucas, Julie Hare (London – UK)

Thursday, 15.06.2006
Zeremoniensaal

Results in Cochlear Implantation (Z1)  08:00 – 10:00
Chair: Liat Kishon-Rabin, Sigfrid Soli

Z1 – O1  8 min  Nucleus Freedom® North American clinical trial  
Thomas Balkany, Christine Menapace, Annelle Hodges, Linda Hazzard, Fred Telischi (Miami – USA)

Z1 – O2  8 min  Comparison of performance between the Esprit 3G versus the Freedom speech processor  
Gunnar Eskilsson, Eva Agelfors, Eva Kindlundh, Marja Vainio, Martin Eklöf, Filip Asp, Eva Karlorp, Arne Rödvik, et al. (Huddinge – Sweden; Oslo – Norway)

Z1 – O3  8 min  Clinical validation of Nucleus® Freedom™ for N24 speech processor  
Agnes Allen, Paula Greenham, Yvonne James, Louise Craddock, Deborah Mawman, Cecilia McAnallen (Multicenter – UK)
Z1 – O4  8 min  Speech perception performance of double array Nucleus Multi-channel cochlear implant users with standard and duplicated maps in each of the arrays  
M. Valeria Schmidt Goffi Gomez, Carolina Abdala F, Mariana Guedes, Cristina Ornelas, Sandra Giorgi, Rubens Brito Neto, Arthur Castilho, Ricardo Bento (Sao Paulo - Brazil)

Z1 – O5  8 min  Nucleus Freedom performance and preference for ACE and CIS strategies  
Erwin Offeciers , Andej Zarowski , Roland Laszg , Thomas Wesarg , Joachim Müller-Deile , Andre Morsnowski , K. Begall , M. Hey ( Multicenter – Belgium, Germany)

Z1 – O6  8 min  Frequency importance functions for adults with cochlear implants and normal hearing: effect of background noise  
Douglas Sladen, Todd Ricketts, Michael Dorman (Tempe, Nashville - USA)

Z1 – O7  8 min  Effect of cochlear implant microphone location on speech intelligibility  
Sigfrid Soli, Xin Xi, Fei Ji, Ai-Ting Chen, Meng-Di Hong, Dong-Yi Han, Jianing Wei (Los Angeles – USA; Beijing – China)

Z1 – O8  8 min  Field trial of Micro-link radio aids with adult cochlear implant users  
Sarah Flynn, Elizabeth Wood (Southampton – UK)

Z1 – O9  8 min  Real world benefits of FM systems for children with cochlear implants  
Mark C. Flynn, Traci S. Flynn, Melanie Gregory, Heine H. Andersen (Eriksholm – Denmark)

Z1 – O10  8 min  Landline and mobile telephone performance in MED-EL TEMPO+ users  
M Suzanne Hasenstab (Virginia - USA)

Z1 – O11  8 min  Successful Telephone Use  
Lynne Tapper, Catherine Killan, Andrew Scally (Bradford – UK)

Z1 – O12  8 min  Assistive device and telephone use by adult CI users  
Amy Donaldson, Deborah Mawman, Karen Smith (Manchester – UK)

Z1 – O13  8 min  The use of line and mobile telephone following cochlear implantation  
Luis Lassaletta, Alejandro Castro, Marta Bastarrica, Rosa Pérez, Lorena Sanz, Belén Herrán, Maria Josefa Sarriá, Javier Gavián (Madrid – Spain)

Z1 – O14  8 min  Comparing the acoustic-to-phonetic level of processing in postlingual deafened adults with cochlear implants to that of normal hearing in quiet and in noise  
Liat Kishon-Rabin, Daphne Recanati, Daphne Ari-Even Roth, Shira Rotshtein, Riki Taitelbaum – Sweed, Minka Hildesheimer (Tel Aviv – Israel)

Z1 – O15  8 min  Acceptance of noise in adult cochlear implant users  
Junghwa Bahng, Patrick Plyler (Knocksville – USA)
Vibrant Med-El Coffee Break
Thursday, 15.06.2006
Zeremoniensaal

Alternative Surgical Approaches (Z2)
Chair: Jona Kronenberg, Alec Fitzgerald O’Connor

Z2 – O1 8 min  Why use alternative surgical techniques for CI?
Jona Kronenberg, Lela Migirov, Riki Taitelbaum-Swead (Tel Aviv – Israel)

Z2 – O2 8 min  Six years Vienna experience with the suprameatal approach
Wolf-Dieter Baumgartner, Alexandra Jappel, Klemens Frei, Reinhard Ramsebner,
Christoph Arnoldner (Vienna – Austria)

Z2 – O3 8 min  Update on minimal invasive pericanal cochlear implantation
without mastoidectomy
Rudolf Häusler, Mattheus Vischer, Martin Kompis (Berne – Switzerland)

Z2 – O4 8 min  The advantages of the modified paracanal approach for
electrode insertion during CI
Ivan Tzenev, Kuncho Kunev (Sofia – Bulgaria)

Z2 – O5 8 min  Tympanic frame and attic protection in cochlear implants
Hector Ruiz, Esteban Filas (Rosario - Argentina)

Z2 – O6 8 min  Med-El small incision cochlear implantation with device fixation
Paul W. Bauer (Dallas – USA)

Z2 – O7 8 min  Small incision surgery with Med-El cochlear implant: a clinical
experience
Domenico Cuda, Alessandra Murri (Piacenza – Italy)

Z2 – O8 8 min  Modified minimal incision for Med El
Levent Semnaroglu, Sarp Sarac, Ergin Turan (Ankara – Turkey)

Z2 – O9 8 min  Round window insertion of Advanced Bionics HiFocus 1j
electrode
Alec Fitzgerald O’Connor, Terry Nunn, Sonelle McDonald, Sheena McLaren, Katherine
Wilson (London – UK)
Cochlear implantation under local anaesthesia
Ahmed Hanoussa, Abdelnasser Oreibi (Doha – Qatar; Abudabi – United Arab Emirates)

Transcanal technique for cochlear implantation: the Indian scene
JM Hans (New Delhi – India)

Computer modelling of landmarks for cochlear implantation
Michael Teixido, Robert C. O’Reilly, Michael T. Gaslin, Patrick Coller (Wilmington – USA)

New strategies for high precision cochleostomy using a hexapod robot system
Thomas Klenzner, Chiu Chun Ngan, Felix Knapp, Jan Kromeier, Klaus Kömer, Antje Aschendorff, Jörg Raczkowsky, Heinz Wörn, et al. (Multicenter – Germany)

Navigation surgery in cochlear implantation
Gábor Répássy, Marianna Küstel, Károly Hrabák, Zoltán Fent, Ron von Jako (Budapest – Hungary)

Lunch Buffet
Guten Appetit
Bon Appétit
Thursday, 15.06.2006

**Zeremoniensaal**

**MED-EL Lunch Symposium** 12:55 – 13:55

**MED-EL – L1** 7 min  
**MED-EL: The Hearing Implant Company**  
Ingeborg Hochmair (Innsbruck – Austria)

**MED-EL – L2** 7 min  
**MED-EL Cochlear Implant Systems: Latest Developments and Innovations**  
Hansjoerg Schoesser (Innsbruck – Austria)

**MED-EL – L3** 7 min  
**VIBRANT’s Soundbridge System**  
Geoffrey Ball (Innsbruck – Austria)

**MED-EL – L4** 39 min  
**Treatment of deafness in the 3rd millennium**  
*Moderator: Wolf-Dieter Baumgartner (Vienna – Austria)*

Joachim Mueller (Wuerzburg – Germany)  
Rick Pillsbury (Chapel Hill – USA)  
Vittorio Colletti (Verona – Italy)  
Paul van de Heyning (Antwerp – Belgium)  
Philippe Lefèbvre (Liège – Belgium)  
Bruno Frachet (Bobigny – France)
Thursday, 15.06.2006

**Zeremoniensaal**

**Testing (Z3) 14:00 – 16:00**

**Chair:** Susan Waltzman, Takhesi Kubo

**Z3 – O1** 8 min  **Fitting of very young children**
Heike Kühn-Inacker, R Mederake, Franz Schön, Jochim Müller, Jan Helms (Würzburg - Germany)

**Z3 – O2** 8 min  **Test-retest reliability of three cochlear implant questionnaires**
Heather Maessen, Jillian Ryan, Manohar Bance (Halifax – Canada)

**Z3 – O3** 8 min  **How do different cochlear implant questionnaires correlate with each other?**
Heather Maessen, Jillian Ryan, Manohar Bance (Halifax – Canada)

**Z3 – P4** 3 min  **Development of a DVD version of the UCL CUNY sentence test**
Wanda Aleksy, Francesca Pinto, Pippa Wilson, Laure Arnold, Patrick Boyle (London – UK)

**Z3 – P5** 3 min  **Speech tracking revisited**
Geoff Plant (Innsbruck – Austria)

**Z3 – P6** 3 min  **How to evaluate the abilities in auditory communication of deaf children with CI using PTP test**
Wei Liang, Li Zhang (Beijing – China)

**Z3 – P7** 3 min  **LittlEARS diary for parents and therapists – documentation method for early auditory and verbal development of infants**
Joanna Brachmaier, Heike Kühn-Inacker, Kim Veekmans (Innsbruck – Austria)

**Z3 – P8** 3 min  **LittlEARS auditory questionnaire – Evaluation results**
Joanna Brachmaier, Heike Kühn-Inacker, Sabine Strauß, Denise Shepherd (Innsbruck – Austria)

**Z3 – P9** 3 min  **LittlEARS auditory questionnaire – Validation study on normal hearing infants in Romania**

**Z3 – O10** 8 min  **The Teen-EARS Test Battery – A new tool for the assessment of auditory skills in teenage cochlear implant users**
Brockmeier Steffi Johanna, Teschke Claudia (Munich – Germany)

**Z3 – O11** 8 min  **Korean HINT: Cross-language equivalency in normal and CI listeners**
Sigfrid Soli, Sung-Kyung Moon, Hong Joon Park, Seung-Chul Lee, Young-Myoung Chun, Hanna Lee, Jee-Yeon Lee, KIYOU NG YOU et al. (Los Angeles – USA; Seoul – Korea)
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<tr>
<td>Z3 – O12</td>
<td>8 min</td>
<td>The Bark scale in children with cochlear implants: Ongoing findings</td>
<td>Ross Tonini, Jamie Rasmus, Charles Ballay, John Oghalai, Spiros Manolidis (Houston, New York – USA)</td>
</tr>
<tr>
<td>Z3 – O14</td>
<td>8 min</td>
<td>Differences in perception of handicap between cochlear implant users and spouses</td>
<td>Manohar Bance, Jillian Ryan, Heather Maessen (Halifax – Canada)</td>
</tr>
<tr>
<td>Z3 – P15</td>
<td>3 min</td>
<td>Talker familiarity’s affect on cochlear implant users’ sentence recognition</td>
<td>Brittan A. Barker (Iowa City – USA)</td>
</tr>
<tr>
<td>Z3 – O16</td>
<td>8 min</td>
<td>Assessment of parental views of their cochlear implanted children</td>
<td>Kimitaka Kaga, Limin Yu, Yusuke Akamatsu, Erika Ogata, Ken Ito, Tatsuya Yamasoba (Tokyo – Japan)</td>
</tr>
<tr>
<td>Z3 – O17</td>
<td>8 min</td>
<td>Early intervention and cochlear implants: Parental perspectives</td>
<td>Donna Sorkin, Terry Zwolan (McLean – USA)</td>
</tr>
<tr>
<td>Z3 – O18</td>
<td>8 min</td>
<td>Parental decision making regarding choice of implant manufacturer for their children</td>
<td>Jan A. Moore, Mallory Cole (Austin – USA)</td>
</tr>
<tr>
<td>Z3 – P19</td>
<td>3 min</td>
<td>Development of an effective pediatric counseling tool</td>
<td>Jody Haymond, Ross Tonini (Houston – USA)</td>
</tr>
<tr>
<td>Z3 – P20</td>
<td>3 min</td>
<td>ABQuest: handling research questionnaires efficiently</td>
<td>Filip Vanpoucke, Philippe Dykmans, Debi Vickers (Antwerp – Belgium)</td>
</tr>
<tr>
<td>Z3 – P21</td>
<td>3 min</td>
<td>Advocacy program at the Let Them Hear Foundation</td>
<td>Joseph B Roberson, Sheri Byrne-Haber (East Palo Alto – USA)</td>
</tr>
</tbody>
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Coffee Break
Thursday, 15.06.2006

Zeremoniensaal

Electrophysiology (Z4)

Chair: Paul Kileny, Paul Abbas

16:30 – 18:00

Z4 – O1 8 min
Electric-acoustic stimulation: auditory nerve single fiber results
Charles Miller, Paul Abbas, Barbara Robinson, Kirill Nourski, Fawen Zhang, Fuh-Cheng Jeng (Iowa City – USA)

Z4 – O2 8 min
Do auditory cortex fMRI activations predict CI outcome?
Katrin Neumann, Christine Preibisch, Joachim Spreer, Peter Raab, John Hamm, Jan Kiefer, Silke Helbig, Harald A. Euler (Frankfurt – Germany)

Z4 – O3 8 min
Can fMRI predict outcome for cochlear implantation in children?
Scott K. Holland, Daniel I. Choo, Vincent J. Schnithorst, Mekibib Altaye, Prasanna Karunanayaka, Ankur Patel, David Brown, Edie Eads et al. (Cincinnati - USA)

Z4 – O4 8 min
fMRI before cochlear implantation (CI) in small children
Christoph Knaus, Andreas Bartsch, Armin Biller, Joachim Müller (Würzburg – Germany)

Z4 – P5 3 min
Electroaudiometry - its present role in preoperative assessment of the CI candidates
Saba Battelino, Miha Zargi (Ljubljana – Slovenia)

Z4 – O6 8 min
Stochastic neural firing applied to neural excitation spread
J. E. Smit, T. Hanekom, J. J. Hanekom (Pretoria – South Africa)

Z4 – O7 8 min
Electrically evoked auditory change potentials
Carolyn Brown, Paul Abbas, Christine Etler, Sara O’Brien, Sheryl Erenberg (Iowa City – USA)

Z4 – O8 8 min
Electrophysiological responses within the spiral ganglion
Qing Liu, Robin L. Davis (USA)

Z4 – O9 8 min
Differential patterns of brain activation during auditory processing in cochlear implant recipients
Yael Henkin, Simona Telin-Schneider, Liat Kishon-Rabin, Minka Hildesheimer (Tel Aviv - Israel)

Z4 – O10 8 min
Lateralisation of speech processing in cochlear implant users
Kevin Green, Peter Julyan, David Hastings, Richard T Ramsden (Manchester – UK)

Z4 – P11 3 min
A bipolar electrode for objective electromyographic registration of stapedius muscle reflexes
Hans Wilhelm Pau, Rüdiger Dahl, Uwe Sievert, Thorsten Zehlic (Rostock – Germany)

Z4 – P12 3 min
Intra-operative Stapedius reflex threshold: Comparison of multi channel stimulation versus single channel stimulation
Rolf-Dieter Battmmer, Martina Brendel, Andreas Buechner, Carolin Frohne-Buechner, Timo Stoever, Burghard Schwab, Thomas Lenarz (Hanover – Germany)
Electrically evoked action potential (EAP) parameters obtained from pre-lingually deaf implanted patients
Rosamaria Santarelli, Vincenzo Magnavita, Pietro Scimemi, Anna Monteleone, Maria Guarnaccia, Edoardo Arslan, Laure Arnold (Padua – Italy)

Measurement of electrically evoked auditory brainstem and cortical responses using the Nucleus® Freedom™ cochlear implant
John M. Heasman, Pavel Prado-Guitierrez, Leonie M. Fewster, Colette M. McKay, Robert K. Shepherd (Melbourne – Australia)

Thursday, 15.06.2006

**Radiologic Evaluation (PE1) 08:00 – 10:00**
Chair: Christian Czerny, Johan Frijns

**PE1 – O1** 20 min  
State of the art: Radiologic evaluation pre and post cochlear implantation
Christian Czerny, Wolf-Dieter Baumgartner (Vienna – Austria)

**PE1 – O2** 8 min  
Cochlear implantation in children – do we need MRI scan in all potential candidates?
Anke Lesinski-Schiedat, K. Willenborg, H. Becker, Thomas Lenarz (Hanover – Germany)

**PE1 – O3** 8 min  
Combination of CT and MRI as neuroradiological imaging modalities in patients before cochlea implantation
Andrea Bink, Silke Helbig, Friedhelm Zanella (Frankfurt – Germany)

**PE1 – O4** 8 min  
Application of temporal bone computed tomography in selection for cochlear implantation
Anna Piotrowska, M I Furmanek, Artur Lorens, Henryk Skarżyński, J M Walecki (Kajetany – Poland)

**PE1 – O5** 8 min  
Multislice CT in preoperative assessment of ear anatomy for cochlear implantation
Nenad Arsovic, Branka Mikic, Andja Jasovic, Radomir Radulovic (Belgrade – Serbia and Montenegro)

**PE1 – O6** 8 min  
Interest of preoperative evaluation of cochlear size from CT scan
Chris James, Bernard Fraysse, Olivier Deguine, Elias Eter, Nadine Cochard, Bernard Escudé (Toulouse – France)
**PE1 – O7**  8 min  Low field MRI on CI candidates evaluation - Study of 18 deaf and blind children
Ulises Rodriguez, Luis Quevedo, Antonio Paz, Maribel Ponce de Leon, Sandra Bermejo (Havana – Cuba)

**PE1 – O8**  8 min  Micro-CT anatomical study of human cochleae
Andrzej Zarowski, Filip Vanpoucke, Andrei Postnov, Nora De Clerck, Thomas Somers, Erwin Offeciers, Stefaan Peeters (Antwerp – Belgium)

**PE1 – O9**  8 min  Virtual cochlear implantation
Catherine Todd, Fazel Naghdy (Wollongong – Australia)

**PE1 – O10**  8 min  Evaluation of the implanted cochlear implant electrode by CT scanning three dimensional reconstruction
Wei-Jia Kong, Hui Ma, Pin Han, Xing-Jian Yue, Xing-Gao Xong, Yan-Jun Wang (Wuhan – China)

**PE1 – O11**  8 min  MSCT- analysis of cochlear anatomy and electrode position
Johan H.M. Frijns, Berit M. Verbist, Jeroen J. Briaire (Leiden – Netherlands)

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**Vibrant Med-El Coffee Break**

**Thursday, 15.06.2006**  
**Prinz Eugen Saal**

**Brainstem Implants (PE2)**
Chair: Vittorio Colletti, Richard Ramsden

**PE2 – O1**  8 min  First successful case of electrical stimulation of the human inferior colliculus
Vittorio Colletti, Robert Shannon, Marco Carner, Liliana Colletti (Verona – Italy)

**PE2 – O2**  8 min  Concept electrophysiological assessment and safety studies of the auditory midbrain implant (AMI)
Minoo Lenarz, Günther Reuter, Jim Patrick, H Lim, Madjid Samii, Thomas Lenarz (Hanover – Germany)
**9th INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS AND RELATED SCIENCES**

**14.06 – 17.06.2006**

**Hofburg Congress Center**

**Vienna, Austria**

**PE2 – O3** 8 min  
Auditory implant surgery in Neurofibromatosis 2: Early and long-term management  
Cordula Matthies, Tilman Schweitzer, Klaus Roosen, Katja Kniese, Madjid Samii, Thomas Lenarz, Jan Helms, Rudolf Hagen et al. (Multicenter – Germany)

**PE2 – O4** 8 min  
Auditory brainstem implant in NF2 and other otologic indications  
Olivier Sterkers, Alexis Bozorg-Grayeli, Emmanuelle Ambert-Dahan, Didier Bouccara, Michel Kalamarides, Sollman WP, Rey A (Clichy – France)

**PE2 – O5** 8 min  
Cochlear and brainstem implantation in patients with vestibular schwannoma and profound contra lateral hearing loss  
Alexis Bozorg Grayeli, Didier Bouccara, Isabelle Mosnier, Emmanuelle Ambert-Dahan, Olivier Sterkers, Xavier Bichat, Michel Kalamarides (Clichy, Paris – France)

**PE2 – O6** 8 min  
Comparison of ABI results in NF2 and non-tumour patients  
Robert Shannon, Marco Carner, Liliana Colletti, Vittorio Colletti (Los Angeles – USA; Verona – Italy)

**PE2 – O7** 8 min  
Restoration of hearing with auditory brainstem implants in NF2 patients  
Robert Behr, Bernd Hölper, Joachim Müller (Fulda, Würzburg – Germany)

**PE2 – O8** 8 min  
Intra-operative EABR and post-operative hearing in the ABI  
Martin O’Driscoll, Deborah Mawman, Richard Ramsden (Manchester – UK)

**PE2 – O9** 8 min  
Results of the Digisonic® SP auditory brainstem implant  
Franco Trabalzini, Francois Michel Vaneecloo, Christophe Vincent, Jacques Magnan, Daphnee Emilie (Padova – Italy; Lille, Marseille, Vallauris – France)

**PE2 – O10** 8 min  
Auditory outcomes in children fitted with ABI  
Liliana Colletti, Marco Carner, Vittorio Colletti (Verona – Italy)

**Round Table Advances in Brainstem and Midbrain Implants:**

**Moderator:** Vittorio Colletti  
(Verona – Italy)

**Panelists:** Richard Ramsden  
(Manchester – UK)  
Minoo Lenarz  
(Hanover – Germany)  
Robert Shannon  
(Los Angeles – USA)  
Robert Behr  
(Fulda – Germany)  
Jacques Magnan  
(Marseille – France)

**Lunch Buffet**
<table>
<thead>
<tr>
<th>PE3 – O1</th>
<th>8 min</th>
<th>Bilateral cochlear implants and combinations with acoustical aids</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Richard S. Tyler, Camille Dunn, Shelley Witt, William Noble (Iowa City – USA)</td>
</tr>
<tr>
<td>PE3 – O2</td>
<td>8 min</td>
<td>Restoration of binaural hearing capabilities with unilateral CI's in patients with residual hearing with the opposite ear</td>
</tr>
<tr>
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<td>Lars-U. Scholtz, Joachim Mueller, Stephan Brill, Christoph Knaus, Rudolf Hagen (Würzburg – Germany)</td>
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<tr>
<td>PE3 – O3</td>
<td>8 min</td>
<td>Optimising hearing of adults who use hearing aids with cochlear implants</td>
</tr>
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<td>Maire Doran, Jennifer Rogers, Julie Eyles, Sarah Flynn (Bodelwyddan, Southampton – UK)</td>
</tr>
<tr>
<td>PE3 – O4</td>
<td>8 min</td>
<td>Binaural-bimodal hearing: Evidence on binaural advantages</td>
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<td>Paula Incerti, Teresa YC Ching, Mandy Hill, Emma van Wanrooy, Colleen Psarros (Sidney - Australia)</td>
</tr>
<tr>
<td>PE3 – O5</td>
<td>8 min</td>
<td>Cochlear implant and contra lateral hearing aid: binaural advantages</td>
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<td>Constantino Morera, Manuel Manrique, Angel Ramos, Luis Garcia-Ibañez, Laura Cavalle, Alicia Huarte, Carmen Castillo, Elizabeth Estrada (Valencia, Pamplona, Las Palmas, Barcelona – Spain)</td>
</tr>
<tr>
<td>PE3 – O6</td>
<td>8 min</td>
<td>CROS systems, bimodal use, and bilateral implantation - a comparison of outcomes</td>
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<td>Christian Durst, Richard Ramsden, Quentin Summerfield, Mark Lutman, David Strachan (Manchester, York, Southampton, Bradford – UK)</td>
</tr>
<tr>
<td>PE3 – O7</td>
<td>8 min</td>
<td>Perception of suprasegmental features of speech by children with cochlear implants and children with hearing aids</td>
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<td>Tova Most, Miriam Peled (Tel Aviv – Israel)</td>
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</tbody>
</table>
Thursday, 15.06.2006

Prinz Eugen Saal

15:00 - 16:00

**Quality of Life and Safety in Cochlear Implants (PE3)**
Chair: Douglas Backous, Rolf-Dieter Battmer

**PE3 – O8** 8 min  
**Quality of life measures for patients with bilateral cochlear implants**  
Roberta Buhagiar, Mark Lutman (Southampton – UK)

**PE3 – O9** 8 min  
**Impact of cochlear implantation on quality of life in postlingually deaf adults - results of long term follow up**  
Goodlieve Damen, Andy Beynon, Paul Krabbe, Jef Mulder, Emmanuel Mylanus (Nijmegen – Netherlands)

**PE3 – O10** 8 min  
**Economic and outcome analysis of non-use among CI patients**  
Christopher Raine, Quentin Summerfield, David Strachan, Jane Martin, Catherine Totten (Bradford, York – UK)

**PE3 – O11** 8 min  
**Improved access and center viability part 1: Value stream mapping**  
Douglas D. Backous, Stacey D. Watson, Allison A. Zarkos, Jan Hess (Seattle – USA)

**PE3 – O12** 8 min  
**Necessity for quality control after cochlear implant surgery**  
Antje Aschendorff, Thomas Klenzner, Jan Kromeier, Stefanie Kröger, Roland Laszig (Freiburg – Germany)

**PE3 – O13** 8 min  
**Safety and reliability of cochlear implants**  
Rolf-Dieter Battmer, Birgit Linz, Thomas Lenarz (Hanover, Bonn – Germany)

**PE3 – O14** 8 min  
**CI explants reported according to new reliability standard**  
Douglas D. Backous, Stacey D. Watson, Allison A. Zarkos (Seattle – USA)

**PE3 – O15** 8 min  
**Cochlear implant market dynamics – Expansion versus saturation**  
Matthias P. Schönemark, Carine Andrey, Heike Kielhorn (Hanover – Germany)

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Coffee Break
<table>
<thead>
<tr>
<th>PE4 – O1</th>
<th>8 min</th>
<th>The slim lateral electrode array: Designed for round window insertion</th>
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<tbody>
<tr>
<td></td>
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<td>Thomas Lenarz, Timo Stöver, Carolin Frohne-Büchner, Andreas Büchner (Hanover – Germany)</td>
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<tr>
<td>PE4 – O2</td>
<td>8 min</td>
<td>Comparison of round window and cochleostomy approaches with a prototype hearing preservation electrode</td>
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<tr>
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<td>Robert J. S. Briggs, Michael Tykocinski, Jin Xu, Frank Risi, Martin Svehla, Robert Cowan, Timo Stover, P. Erfurt et al. (Melbourne – Australia; Hanover – Germany)</td>
</tr>
<tr>
<td>PE4 – O3</td>
<td>8 min</td>
<td>New cochlear implant electrodes contribute to the improvement in outcome</td>
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<td>Gerrit Paasche, Sarah Wieland, Thomas Lenarz, Timo Stöver (Hanover – Germany)</td>
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<tr>
<td>PE4 – O4</td>
<td>8 min</td>
<td>Round window approach with different types of electrodes design for hearing preservation</td>
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<tr>
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<td>Henryk Skarżyński, Maciej Mrówka, Paulina Miotkowska-Klimek, R Podskarbi, Artur Lorens, Anna Piotrowska (Kajetany – Poland)</td>
</tr>
<tr>
<td>PE4 – O5</td>
<td>8 min</td>
<td>Implications of the oblique course of apical nerve fibers</td>
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<td>Randy K. Kalkman, Jeroen J. Briair e, Johan H.M. Frijns (Leiden – Netherlands)</td>
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<tr>
<td>PE4 – O6</td>
<td>8 min</td>
<td>Evaluation of the swine cochlea anatomy as a model for human cochlear implantation</td>
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<td>Marc Unkelbach, Andreas Radeloff, Oliver Adunka, Reiner Hartmann, Wolfgang Gstöttner (Frankfurt – Germany)</td>
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<tr>
<td>PE4 – O7</td>
<td>8 min</td>
<td>Further experience with “pull-back” of perimodiolar electrodes</td>
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<td>Ingo Todt, Dietmar Basta, Arne Ernst (Berlin - Germany)</td>
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<tr>
<td>PE4 – O8</td>
<td>8 min</td>
<td>Providing appropriate cochlear implant electrodes to different cochlear malformations: What suits and what are the outcomes?</td>
</tr>
<tr>
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<td>Ilona Anderson, Andreas Jäger (Innsbruck – Austria)</td>
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<tr>
<td>PE4 – O9</td>
<td>8 min</td>
<td>Electrode design considerations for reducing trauma</td>
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<td>Peter Gibson, Frank Risi, Jim Patrick, Martin Svehla, Claudiu Treaba (Sidney, Melbourne – Australia)</td>
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<tr>
<td>PE4 – O10</td>
<td>8 min</td>
<td>Advanced Bionics electro acoustic systems design considerations</td>
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<td>Edward H Overstreet (Sylmar – USA)</td>
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</tbody>
</table>
### Thursday, 15.06.2006

**Signal Processing (G1)**  
*Chair: Joachim Müller-Deile, François Bergeron*

<table>
<thead>
<tr>
<th>Session</th>
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<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>G1 – O1</td>
<td>8 min</td>
<td>European multi-centre study on the determination of perceptual channels</td>
<td>Martin Eklöf, Patrizia Mancini, Manuela Mazzoli, Martina Brendel, Gül Caner (Multicenter – Sweden, Italy, Germany, Turkey)</td>
</tr>
<tr>
<td>G1 – O2</td>
<td>8 min</td>
<td>Influence of HighRes 90k stimulation parameters on the electrically evoked stapedius reflex</td>
<td>Joachim Müller-Deile, Thomas Kortmann (Kiel – Germany)</td>
</tr>
<tr>
<td>G1 – P3</td>
<td>3 min</td>
<td>The Freedom speech processor for N24 series cochlear implants</td>
<td>Colleen Psarros, Sharan Westcott, Sarah Platt-Hepworth, Deborah Pallett, Mary-Ann Law, Kerrie Plant, Esti Nel, Yetta Abrahams et al. (Darlinghurst, Sidney, Melbourne – Australia; Denver – USA)</td>
</tr>
<tr>
<td>G1 – O4</td>
<td>8 min</td>
<td>Current steering through quadrupolar stimulation and “virtual channels”: spectral resolution and speech perception</td>
<td>Lucas Mens, Carlo Berenstein, Jef Mulder, Filip Vanpoucke (Nijmegen – Netherlands)</td>
</tr>
<tr>
<td>G1 – O5</td>
<td>8 min</td>
<td>Concept and technical features of the new HiRes Auria+ processor</td>
<td>Alexandre Gault, Carolin Frohne-Büchner, Jean-Baptiste Delande, Laure Arnold, Davi Miller, Patrick Boyle (Sarl – France)</td>
</tr>
<tr>
<td>G1 – O6</td>
<td>8 min</td>
<td>Combined processor for electro-acoustic stimulation with Nucleus 24</td>
<td>Bernard Fraysse, Olivier Deguine, Chris James, Olivier Sterkers, Didier Bouccara, Emmanuël Ambert-Dahan, Ibrahim Bouchataouei, Matthijs Killian (Toulouse, Clichy – France; Mechelen – Belgium)</td>
</tr>
<tr>
<td>G1 – O7</td>
<td>8 min</td>
<td>Performance with a miniaturized, cable free FM for CI users</td>
<td>Patricia Trautwein, Jace Wolfe (Sylmar – USA)</td>
</tr>
<tr>
<td>G1 – P8</td>
<td>3 min</td>
<td>The Auria iConnect: an ear-level connector for an FM receiver</td>
<td>Carolin Frohne-Büchner, Martina Brendel, Alexandre Gault, Andreas Büchner, Thomas Lenarz (Hanover – Germany)</td>
</tr>
<tr>
<td>G1 – O9</td>
<td>8 min</td>
<td>Infant speech processor conversion study from SPrintTM to ESPrit 3GTM</td>
<td>Catherine Totten, Jane Bradley, Stuart Thomas (Bradford, London – UK)</td>
</tr>
<tr>
<td>G1 – O10</td>
<td>8 min</td>
<td>Benefits of the T-Mic in the HiResolution cochlear implant system</td>
<td>Jane Madell, Lori Markoff, Ronald Hoffman, Nicole Sislian (New York – USA)</td>
</tr>
</tbody>
</table>
**Telemedical application for remote cochlear implant fitting**
Arkadiusz Wasowski, Przemyslaw Rudowski, Artur Lorens, Adam Walkowiak, Anita Obrycka, Henryk Skarzynski (Kajetany – Poland)

**Multicentric study on adult patients implanted with the Digisonic SP cochlear implant system**
Jacques Magnan, Renaud Meller, Emilien Radafy, Philippe Bordure, Bernard Meyer, Claude Fugain, Lionel Collet, Eric Truy et al. (Marseille, Nantes, Paris, Lyon, Lille – France)

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**Thursday, 15.06.2006**

**Tinnitus and Cochlear Implant (G2)**
Chair: Paul van de Heyning, Jay Rubinstein

**G2 – O1** 8 min  **Tinnitus treatment with CI in unilateral deafness**  
Paul Van de Heyning, Katrien Vermeire, Dirk De Ridder (Antwerp – Belgium)

**G2 – O2** 8 min  **Hearing capabilities after CI in unilateral sensorineural deafness and tinnitus**  
Katrien Vermeire, Peter Schleich, Paul Van de Heyning (Antwerp – Belgium)

**G2 – O3** 8 min  **Swiss multi-centre study on tinnitus and cochlear implantation**  
Martin Kompis, Marco Pelizzone, Norbert Dillier, John Allum, Nicola DeMin (Multicenter - Switzerland)

**G2 – O4** 8 min  **Tinnitus suppression by electrical stimulation with cochlear implants: Study of 100 patients**  
Liesbeth De Coninck, Andrzej Zarowski, Isabelle Schattenerman, Margriet Verstreken, Thomas Somers, Stefaan Peeters, Erwin Offeciers (Antwerp – Belgium)

**G2 – O5** 8 min  **Auditory system gain and the treatment of tinnitus in implant patients**  
Hinrich Staecker, Susan Gold, Craig Formby (Kansas City - USA)

**G2 – O6** 8 min  **Tinnelec®: Tinnitus reduction implant by electrical stimulation of the oval window**  
Bruno Frachet, Vincent Pean, Emilie Vormes, Bertrand Philippeon, David Veran (Bobigny, Vallauris – France)
Round Table Tinnitus and Cochlear Implant:

**Moderator:** Paul van de Heyning (Antwerp – Belgium)

**Panelists:**
- Bruno Frachet (Bobigny – France)
- Martin Kompis (Berne – Switzerland)
- Jay Rubinstein (Seattle – USA)
- Richard Tyler (Iowa City – USA)

Lunch Buffet

Thursday, 15.06.2006  
Gartensaal  
14:00 – 16:00

**Cochlear Implant in Multihandicapped Patients (G3)**  
Chair: Craig Buchman, Ahmed Daneshi

**G3 – O1**  
8 min  
Clinical characteristics of children with cochlear nerve deficiency  
Craig A. Buchman, Oliver F. Adunka, Patricia A. Roush, Holly F.B. Teagle, Carolyn J. Brown, Carlton J. Zdanaki, John H. Grose (Chapel Hill – USA)

**G3 – P2**  
3 min  
Clinical spectrum of inner ear malformations  
Oliver F. Adunka, Craig A. Buchman (Chapel Hill – USA)

**G3 – P3**  
3 min  
Cochlear implantation in Osteogenesis Imperfecta  

**G3 – P4**  
3 min  
Outcome of cochlear implantation in Refsum’s Disease  
Maria Fernando Kurukulasuriya, Yogesh Bajaj, David Strachan, Christopher Raine (Bradfort – UK)

**G3 – P5**  
3 min  
Successful cochlear implantation in a child with Cornelia de Lange syndrome  
Alexandra Jappel, Sonja Hickmann, Wolf-Dieter Baumgartner, Klemens Frei, Reinhard Ramsebner, Christoph Arnoldner (Vienna – Austria)
<table>
<thead>
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<tbody>
<tr>
<td>G3 – P6</td>
<td>3 min</td>
<td>Successful cochlear implantation in a peri-lingually deaf patient with the Melnick-Needles syndrome</td>
<td>Annelies Vermeiren, Andrzej Zarowski, Filip Vanpoucke, Thomas Somers, Erwin Offeciers (Antwerp – Belgium)</td>
</tr>
<tr>
<td>G3 – P7</td>
<td>3 min</td>
<td>Cochlear implantation in Cockayne Syndrome - Our experience of two cases with different outcomes</td>
<td>David P. Morris, Alan Wael, Heather Maessen, Cathy Creaser, Stephanie Demmons – O’Brien, Rene Van Wijhe, Manohar Bance (Halifax – Canada)</td>
</tr>
<tr>
<td>G3 – P8</td>
<td>3 min</td>
<td>Implantation of three children with KID syndrome</td>
<td>Elizabeth Barker, Robert Briggs, Kerryn Saunders (Melbourne – Australia)</td>
</tr>
<tr>
<td>G3 – O9</td>
<td>8 min</td>
<td>Cochlear implantation in children with Mondini deformity</td>
<td>Sandra G. DeSa Souza, Dillon J.F. D’Souza, Natasha A. D’Souza (Mumbai - India)</td>
</tr>
<tr>
<td>G3 – P10</td>
<td>3 min</td>
<td>Cochlear Implantation in “common cavity” deformation</td>
<td>Markus Suckfuell, Uwe Baumann, Juliane Wechtenbruch, John-Martin Hempel (Munich – Germany)</td>
</tr>
<tr>
<td>G3 – P11</td>
<td>3 min</td>
<td>Cochlear implantation results in Kearns-Sayre syndrome</td>
<td>Sipke Pijl, Brian D Westerberg (Vancouver - Canada)</td>
</tr>
<tr>
<td>G3 – O12</td>
<td>8 min</td>
<td>Two year post implant results with custom electrodes for common cavity</td>
<td>Ross Tonini, Spiros Manolidis (Houston, New York – USA)</td>
</tr>
<tr>
<td>G3 – O13</td>
<td>8 min</td>
<td>Cochlear implantation in deaf children with additional disabilities</td>
<td>Karen C. Johnson, Jean L. DesJardins, Margaret E. Winter, Laurie S. Eisenberg (Los Angeles – USA)</td>
</tr>
<tr>
<td>G3 – O14</td>
<td>8 min</td>
<td>CI surgery in special cases with anatomical and functional outcome</td>
<td>Milan Profant, Zuzana Kabátová, Ludovika Simkova, Stefan Simko, Marian Groma, Kamil Seginko (Bratislava – Slovak Republic)</td>
</tr>
<tr>
<td>G3 – O15</td>
<td>8 min</td>
<td>Cochlear implant in inner ear malformations: Labyrinthotomy approach</td>
<td>Nagaraj Sivaji, M Shanks, Agnes Allen (Kilmarnock – UK)</td>
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<tr>
<td>G3 – P16</td>
<td>3 min</td>
<td>Bilateral atresia of the internal auditory meatus – Case report</td>
<td>Luminita Rădulescu, Sebastian Cozma, Dan Martu, Aurelian Curca (Iasi – Romania)</td>
</tr>
<tr>
<td>G3 – P17</td>
<td>3 min</td>
<td>Cochlear implants in cerebral palsy children</td>
<td>Hao Wu, Qi Huang, Xiangping Chen, Yun Li, Zhen Tao (Shanghai – China)</td>
</tr>
<tr>
<td>G3 – P18</td>
<td>3 min</td>
<td>Cochlear implantation in a child with cerebral palsy</td>
<td>Yiqing Zheng, Wei Liu, Xianghui Li, Xiang Liu, Yongkang Ou (Guangzhou – China)</td>
</tr>
<tr>
<td>G3 – O19</td>
<td>8 min</td>
<td>Cochlear implantation in enlarged cochlear aqueduct</td>
<td>Laura Cavalle Garrido, Herminio Morera, Isabel Ibanez, Diego Collado, Constantino Morera (Valencia – Spain)</td>
</tr>
<tr>
<td>G3 – O20</td>
<td>8 min</td>
<td>Cochlear implantation in children with Waardenburg syndrome</td>
<td>Ahmad Daneshi, Saeid Hassanzadeh, Hessam Emamdjomeh, Mohammad Farhadi (Teheran – Iran)</td>
</tr>
</tbody>
</table>
Coffee Break

Thursday, 15.06.2006

Gartensaal

**MRI Safety in Cochlear Implantation (G4)** 16:30 – 18:00

Chair: Robert Behr, Peter Weber

| G4 – O1 | 8 min | MRI compatibility of the Digisonic SP cochlear implant |
|         |       | Christophe Vincent, Frederique Dubrule, Francois Michel Vaneecloo, Olivier Le Caharec, Benjamin Friess, Bertrand Phillipon (Lille, Vallauris – France) |
| G4 – O2 | 8 min | MRI compatibility of MXM Digisonic cochlear implant clinical testing at 1.5 T |
|         |       | Christophe Vincent, Frederique Dubrule, Olivier Le Caharec, Benjamin Friess, Bertrand Phillipon, Francois Michel Vaneecloo (Lille, Vallauris – France) |
| G4 – O3 | 8 min | Magnetic resonance imaging (MRI) in patients with implanted ABI (Combi 40+) – Experience in 5 cases |
|         |       | Robert Behr, Erich Hofmann (Fulda – Germany) |
| G4 – O4 | 8 min | MRI safety of the MED-EL cochlear implants |
|         |       | Martin Zimmerling (Innsbruck – Austria) |
| G4 – O5 | 8 min | Safety of Nucleus 24 implants with Magnetic Resonance Imaging |
|         |       | Erwin Offeciers, Andrzej Zarowski, Herbert Mauch, Ernst von Wallenberg, Frank Risi (Antwerp – Belgium; Basel – Switzerland; Sydney – Australia) |
| G4 – O6 | 8 min | MRI and cochlear implant: clinical experience in more than 100 cochlear implanted patients |
|         |       | Wolf-Dieter Baumgartner, Alexandra Jappel, Soraya Robinson, Christian Czerny, Michael Gruber, Herwig Imhof (Vienna – Austria) |
| G4 – O7 | 8 min | Is Gamma Knife radiation really a contraindication? |
|         |       | Peter Weber, Don Goldberg, Amy Warner, Michael Scott (Cleveland – USA) |
Med El / Vibrant Med El
and
the Organising Committee of the 9th International Conference on Cochlear Implants and Related Sciences
kindly invites You to the

Special Performance of the Spanish Horse Riding School

Afterwards (5 minutes / about 500 meters walking distance)

Cocktail with classic music and finger food in the Albertina Museum

End
### Bilateral Cochlear Implantation (F5)

**Chair:** Joachim Müller, Bernhard Laback

<table>
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<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Duration</th>
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<tbody>
<tr>
<td>F5 – P1</td>
<td>My own case study: An audiologist with bilateral cochlear implants</td>
<td>Erwin Ungui (Manila – Philippines)</td>
<td>3 min</td>
</tr>
<tr>
<td>F5 – O2</td>
<td>Limitations on the perception of interaural time differences in electric and acoustic hearing</td>
<td>Bernhard Laback, Piotr Majdak, Wolf-Dieter Baumgartner (Vienna – Austria)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O3</td>
<td>Effects of interaural time differences in fine structure and envelope on lateral discrimination</td>
<td>Piotr Majdak, Bernhard Laback, Wolf-Dieter Baumgartner (Vienna – Austria)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O4</td>
<td>Bilateral cochlear implantation – 10 years of experience</td>
<td>Joachim Müller, Franz Schön, Stephan Brill, Wafa Shehata-Dieler, Birgitt May, Jan Helms, Rudolf Hagen (Würzburg – Germany)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O5</td>
<td>Performance with a current-steered ‘virtual’ channels strategy (HiRes 120) on bilateral cochlear implant recipients</td>
<td>Richard S. Tyler, Camille C. Dunn, Shelley A. Witt, Bruce J Gantz (Iowa City - USA)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O6</td>
<td>Aspects of bilateral cochlear implantation</td>
<td>Peter Nopp, Peter Schleich, Alexander Möltner, Heike Kühn-Inacker, Wafaa Shehata-Dieler, Joachim Müller (Innsbruck – Austria; Würzburg – Germany)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O7</td>
<td>Comparison of bilateral versus monaural pediatric cochlear implantation</td>
<td>Wolf-Dieter Baumgartner, Alexandra Jappel, Michaela Katzinger, Sonja Hickmann, Isabella Ehrenreich, Klemens Frei, Reinhard Ramsebner, Jafar Sasan Hamzavi (Vienna – Austria)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O8</td>
<td>Benefits of early versus late bilateral cochlear implantation in children</td>
<td>Fanny Scherf, Paul Van de Heyning, Lieselot Van Deen, Astrid van Wieringen, Chirstain Desloovere, Ingeborg Dhooge, Andrzej Zarowski, Naima Deggouj et al. (Multicenter – Belgium)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O9</td>
<td>Sound localization and lateralization in NH and bilateral CI children</td>
<td>Lieselot Van Deen, Astrid van Wieringen, Tim Van den Bogaert, Fanny Scherf, Paul Van de Heyning, Naima Deggouj, Leo De Raeve, Ingeborg Dhooge et al. (Multicenter – Belgium)</td>
<td>8 min</td>
</tr>
<tr>
<td>F5 – O10</td>
<td>Progress report of a 5 year multi-centre study on bilateral</td>
<td></td>
<td>8 min</td>
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</tbody>
</table>
Implantation in young children
P Ashley Wackym, Chris Runge-Samuelson, Carla Balko, Hilary Szymanski, Jaye Berghauser (Milwaukee – USA)

F5 – O11 8 min Results of bilateral cochlear implantation in children
Thomas Stark, Andreas Engel, Denise Rosenberger, Dominik Brors, Stefan Dazert (Bochum – Germany)

F5 – O12 8 min Complications of simultaneous versus sequential bilateral cochlear implantation in children
Joseph B. Roberson Jr, Larisa D. Kunda, Michelle M. Inserra, Katrina R. Stidham (East Palo Alto – USA)

F5 – O13 8 min Development of binaural hearing in sequentially bilaterally implanted subjects
Wolfgang H. Döring (Aachen – Germany)

F5 – O14 8 min Advantages of two in-the-ear microphones in bilateral implantees
Georgios Mantokoudis, MattheusVischer, Martin Kompis, Pascal Senn, Rudolf Häusler (Berne – Switzerland)

F5 – O15 8 min New protocol for speech recognition with bilateral implantation
Jill B. Firszt, Ruth M. Reeder, Laura K. Holden, Margaret W. Skinner (St. Louis - USA)

Coffee Break
chronically disabled middle ear
Karl-Bernd Hüttenbrink, Thomas Zahnert, Mathias Bornitz, Gerd Hofmann (Cologne, Dresden – Germany)

F6 – O5  8 min  History present and future of the floating mass transducer design
Peter Lampacher, Geoffrey Ball (Innsbruck – Austria)

F6 – O6  8 min  Fully implantable microphone – a piezoelectric sensor in the middle ear
Hannes Seidler, Matthias Bornitz, Matthias Blau, Alexander Hellmuth, Gert Hofmann, Karl-Bernd Hüttenbrink, Martin Kerber, Thomas Zahnert et al. (Dresden, Cologne – Germany; Innsbruck – Austria)

F6 – O7  8 min  The transfer function of the Vibrant® Soundbridge® on the non ventilated middle ear
Thomas Zahnert, Matthias Bornitz, Nikolosz Laszurashvilli, Karl-Bernd Hüttenbrink (Dresden, Cologne – Germany)

F6 – O8  8 min  Minimal access surgery for the Vibrant middle ear hearing implant
David Foyt, Sharon Rende, Erick Steiniger, Julie Hanson-Armao (New York – USA)

F6 – O9  8 min  Alternative transmeatal approach for Vibrant® Soundbridge® middle ear implantation without posterior tympanotomy
Jean-Pierre Lavieille, Renaud Meller, Arnaud Deveze, Jacques Magnan (Marseille – France)

F6 – O10  8 min  VSB middle ear implant for rehabilitation of high frequency hearing loss
Klaus Boeheim, Alexander Nahler, Max Schloegel (St. Pölten – Austria)

F6 – O11  8 min  The middle ear implant Vibrant Soundbridge used as an open ear solution for SNHL – experience from the German Military Hospital Ulm
Eberhard Aigner, Matthias Tisch (Ulm – Germany)

F6 – O12  8 min  Bilateral Vibrant® Soundbridge® implantation: audiological benefits in noisy environments
Jean Pierre Lavieille, Sebastien Schmerber, Eric Truy, Alain Uziel, Jacques Magnan, Jean Michel Triglia, Jean Pierre Bébéar, Pierre Garin (Multicenter – France, Belgium)

F6 – O13  8 min  A novel implantable hearing system with direct acoustical cochlear stimulation – DACS
Rudolf Häusler, Christof Stieger, Hans Bernhard, Martin Kompis, Thomas Lenarz (Berne – Switzerland; Hanover – Germany)

F6 – O14  8 min  Implantation of a titanium tube in the outer ear and possibilities of its use for implantable hearing devices
Theo Wesendahl, Mark Winter (Rheine – Germany)

F6 – O15  8 min  Audiological results with the semi-implantable hearing aid system RetroX
Mark Winter, Theo Wesendahl (Rheine – Germany)

F6 – O16  8 min  Reaction of retroauricular tissue after titanium tube-implantation
Friday, 16.06.2006

**Implantable Hearing Aids II (F7) 14:00 – 16:00**

**Chair:** Eric Truy, Karl Bernd Hüttenbrink

**F7 – O1**

**8 min**

Clinical results: 8 years experience in monaural and bilateral Vibrant Soundbridge implantation

Wolf-Dieter Baumgartner, Alexandra Jappel, Sonja Reiß, Maria Lautischer, Peter Franz, Christoph Arnoldner, Geoffrey Ball (Vienna – Austria)

**F7 – O2**

**8 min**

Middle-ear implant transducer results of the coupling of the floating mass transducer (FMT) to the round window in patients with mixed hearing loss: Surgical technique and performance results

Millo A. Beltrame, Guido Cumer, Francesca Maronato, Giuseppe N. Frau (Rovereto – Italy)

**F7 – O3**

**8 min**

Auditory rehabilitation with the Vibrant Soundbridge by oval window stimulation after subtotal petrosectomy

Thomas Somers, Sofie Furnière, Daphne Riff, Katrien Ketelslagers, Andrzej Zarowski, Margriet Verstreken, Isabelle Schatteman, Erwin Offeciers (Antwerp – Belgium)

**F7 – O4**

**8 min**

Vibrant Soundbridge middle ear implant: Vibroplasty techniques in mixed hearing losses

Bruno Frachet, Michel Beliaeff (Bobigny, Sofia Antipolis – France)
Alternative clinical indications for the Vibrant Soundbridge: the experience of the clinic in Meran  
Christian Streitberger (Meran – Italy)

New indications of Vibrant Med El middle ear implant in conductive hearing loss  
Olivier Deguine, Marie Noelle Calmels, Sebastien Lagleyre, Gaetan Iversenc, Bernard Fraysse (Toulouse – France)

Simultaneous use of Med-El Vibrant Soundbridge and traditional hearing aid  
Sharon Rende, Julie Hanson Armao, Matthew Carfrae, David Foyt (New York – USA)

Middle ear implants; patients’ satisfaction  
Ad Snik, Jef Mulder, Cor Cremers, John Noten (Nijmegen – Netherlands)

Long-term study of “Vibrant® Soundbridge” implantable hearing aids  
Thomas Lenarz, Hamidreza Mojallal, Steffen Rose (Hanover – Germany)

Vibrant Soundbridge implant: 5 years results of the first 100 French patients  
Isabelle Mosnier, Didier Bouccara, Alexis Bozorg-Grayeli, Olivier Sterkers, Samia Labassi (Clichy, Sofia Antipolis – France)

Vibrant® Soundbridge® clinical investigations: Expanding indications for use  
Jane M. Opie, Markus Hüttler, Peter Grasso, Peter Lampacher, Samia Labassi, Nadia Giarbini, Alexander Huber, Jonathan Spindel (Multicenter – Austria, Switzerland, USA)

Estimated cost-effectiveness of active middle ear implantation in hearing impaired patients with severe external otitis  
Ad Snik, Noortje van Duijnhoven, Emmanuel Mylanus, Cor Cremers (Nijmegen – Netherlands)

Ototologics semi implantable device for treatment of severe SNHL  
Christian Dubreuil, Eric Truy, Thierry Mom, Renaud Meller, Paul Berger, Jacques Magnan (Multicenter – France)

Indicators for efficient coupling of the Ototologics MET Transducer to the incus  
Hannes Maier, Rudolf Leuwer, Marcos Sanchez-Hanke, Bernd Waldmann (Hamburg, Krefeld – Germany; Boulder – USA)

Ototologics semi to fully implantable upgrade: Our first results  
Renaud Meller, Arnaud Deveze, Laurent Tardivet, Jean Pierre Lavieille, Jacques Magnan (Marseilles – France)

Ototologics fully implantable hearing device surgical improvements  
Herman Jenkins, Nicholas Pergola, James Kasic (Denver – USA)

Ototologics fully implantable hearing device results  
Philippe Lefebvre, Monique DeCat, Cor Cremers, Ad Snik, Hannes Maier, Rudolf Leuwer, Herman Jenkins (Multicenter – Belgium, Netherlands, Germany, USA)
### Drug Delivery (F8)

#### Chair: Thomas Lenarz, Joseph Miller

**F8 – O1**  8 min  **Rescue of auditory neurons: implications for cochlear implants**  
Robert Shepherd, Anne Coco, Stephanie Epp, Jin Xu, Lauren Donley, Patricia Hurley, Sarah McGuinness, James Fallon (Melbourne – Australia)

**F8 – O2**  8 min  **Monitoring of cochlear function during cochlear implantation**  
Oliver F. Adunka, Patricia Roush, John Grose, Corinne Macpherson, Craig A. Buchman (Chapel Hill – USA)

**F8 – O3**  8 min  **Cochlear implantation and drug delivery from polymers**  
Stephen O'Leary, Rachael Richardson, Farnoosh Noushi (Melbourne – Australia)

**F8 – O4**  8 min  **Substance distribution in a cochlea model using different pump rates to simulate local cochlear drug delivery**  
Timo Stöver, Gerrit Paasche, Lars Bögel, Martin Leinung, Thomas Lenarz (Hanover – Germany)

**F8 – O5**  8 min  **Bacteria or biofilm at the cochleostomy site?**  
Jef Mulder, Edith Tonnaer, Emmanuel Mylanus (Nijmegen – Netherlands)

**F8 – O6**  8 min  **Drug delivery to the inner ear through a port and septum attached to the CI housing and electrode: long term in vitro safety results**  
Claude Jolly, Guido Reetz, Fabrice Béal, Wolf Dieter Baumgartner, Joseph Miller (Innsbruck, Vienna – Austria; USA)

**F8 – O7**  8 min  **Biofilm formation in cochlear implants with cochlear drug delivery channels**  
Trey Johnson, Kimberly Loeffler, Claude N. Jolly, Robert A. Burne, Patrick J. Antonelli (Gainesville – USA; Innsbruck – Austria)

**F8 – O8**  8 min  **Preservation of residual hearing: cochlear implant drug delivery technology**  
Edward H Overstreet (Sylmar – USA)
Round Table Drug Delivery

Moderator: Thomas Lenarz (Hanover – Germany)

Panelists: Joseph Miller (Ann Arbor – USA), Robert Shepherd (Melbourne – Australia), Timo Stöver (Hanover – Germany), Jef Mulder (Nijmegen – Netherlands), Claude Jolly (Innsbruck – Austria)

Friday, 16.06.2006

Mapping Strategies (Z5) 08:00 – 10:00

Zeremoniensaal

Chair: Kurt Stephan, Huw Cooper

| Z5 – O1  | 8 min | OPUS1 - Signal processing and technical aspects of a Behind-The-Ear speech processor for fine structure stimulation strategies  
|          |       | Clemens Zierhofer (Innsbruck – Austria) |
| Z5 – O2  | 8 min | Improved approximation of stochastic ion channel gating  
|          |       | Ian Bruce, Faheem Dinath (Hamilton - Canada) |
| Z5 – O3  | 8 min | Relating spectral resolution and speech understanding  
|          |       | Anthony J. Spahr, Leonid Litvak, Aniket Saoji, Michael F. Dorman (Tempe – USA) |
| Z5 – O4  | 8 min | Parametric cochlear implant map adjustments by recipients  
|          |       | Christina Willeboer, Bert van Zanten, Guido Smoorenburg (Utrecht – Netherlands) |
| Z5 – O5  | 8 min | Postoperative Stapedius reflex tests in patients supplied with CI using multichannel electrical stimulation  
|          |       | Kurt Stephan, Viktor Koči (Innsbruck – Austria) |
| Z5 – O6  | 8 min | Excitation fields from cochlear implant stimulation: estimation with numerical models of the human cochlea  
|          |       | Gabriella Tognola, Marta Parazzini, Alessandro Pesatori, Claudia Franzoni, Alessia Paglialonga, Paolo Ravazzani, Ferdinando Grandori (Milan – Italy) |
Which waveform is optimal for modulation rate discrimination?
David Landsberger, Colette McKay (Melbourne – Australia)

LAEP elicited by meaningful words and speech like stimuli
Wilma Harnisch, Edeltraud Emmerich, Stefan Brill, Frank Richter, Rudolf Hagen (Jena, Würzburg – Germany)

Intracochlear ECAP testing in children with auditory neuropathy
Jennifer Weinstock, Holly F.B. Teagle, Carolyn J Brown, Carlton J. Zdanski, Craig A Buchman (Chapel Hill – USA)

Can high performance be achieved by using simplified processor mapping?
Paul Boyd (Manchester – UK)

An acoustic model of phonetic perception in quiet and noise by CI users
Carl Verschuur (Southampton – UK)

Bimodal fitting strategies for adults and children
Mark C. Flynn, Traci S. Flynn, Randi P. Pogash, Barbara Esser-Leyding (Eriksholm – Denmark)

Performance with ESRT generated speech processor programmes
Julie Kosaner (Eskisehir – Turkey)

Objective classification of Neural Response Imaging (NRI)
Laure Arnold, Leonid Litvak, Gulam Emadi, Patrick Boyle (Multicenter – France, USA, UK)

Spread of excitation in the cochlea
Huw Cooper, Louise Craddock (Birmingham – UK)

Coffee Break
Friday, 16.06.2006
Zeremoniensaal

Speech Processing (Z6)
Chair: Richard Tyler, Kim Chong Sun

Signal processing and stimulation strategies for the Digisonic® SP cochlear implant system
Vincent Jourdes, Thomas Leroux, Jean-Claude Repetto (Vallauris – France)
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<tr>
<td>Z6 – P2</td>
<td>3 min</td>
<td>Influence of cochlear implant stimulation on ASSR measures</td>
<td>Ménard Mikael, Gallego Stéphane, Christian Berger-Vachon, Lionel Collet (Lyon – France)</td>
</tr>
<tr>
<td>Z6 – O3</td>
<td>8 min</td>
<td>Tonotopic coding of frequency within the FINEHEARING concept</td>
<td>Peter Nopp, Peter Schleich, Andrea Nobbe, Clemens Zierhofer (Innsbruck – Austria)</td>
</tr>
<tr>
<td>Z6 – P4</td>
<td>3 min</td>
<td>Localization and speech discrimination with the new fine structure strategy</td>
<td>Peter Schleich, Peter Nopp, Clemens Zierhofer (Innsbruck- Austria)</td>
</tr>
<tr>
<td>Z6 – O5</td>
<td>8 min</td>
<td>Encoding fine time structure with CSSS: concept and first results</td>
<td>Reinhold Schatzer, Mathias Kals, Clemens Zierhofer (Innsbruck – Austria)</td>
</tr>
<tr>
<td>Z6 – P6</td>
<td>3 min</td>
<td>Frequency discrimination with a fine structure strategy</td>
<td>Andrea Nobbe, Peter Schleich, Peter Nopp, Clemens Zierhofer (Innsbruck – Austria)</td>
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<tr>
<td>Z6 – P7</td>
<td>3 min</td>
<td>A new stimulation concept based on &quot;selected groups&quot;</td>
<td>Mathias Kals, Thomas Gründhammer, Reinhold Schatzer, Clemens Zierhofer (Innsbruck – Austria)</td>
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<tr>
<td>Z6 – P8</td>
<td>3 min</td>
<td>The contribution of the apical region in PULSARCI100 cochlear implant patients: Investigations using the Auditory Nerve Response Telemetry (ART)</td>
<td>Alexander Nahler, Klaus Böheim, Philipp Spitzer, Clemens M. Zierhofer, Hansjörg Schösser (St. Pölten, Innsbruck – Austria)</td>
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<tr>
<td>Z6 – O9</td>
<td>8 min</td>
<td>Multicenter pilot study: Recording of the electrically evoked compound action potential (ECAP) in PULSARCI100 users</td>
<td>Hansjörg Schösser, Alexander Nahler, Klaus Böheim, Wolf Dieter Baumgartner, Ralf Greisiger, Kjell Rasmussen, Ole Tvetet, Arne Rødvik et al. (Multicenter – Austria, Norway, France, Germany)</td>
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<tr>
<td>Z6 – P10</td>
<td>3 min</td>
<td>Application of various stimulation pulse shapes in cochlear implants</td>
<td>Hansjörg Schösser, Philipp Spitzer, Clemens Zierhofer, Stefan Brill, M Hey (Innsbruck - Austria; Würzburg, Halberstadt – Germany)</td>
</tr>
<tr>
<td>Z6 – P11</td>
<td>3 min</td>
<td>The RateCIS-strategy for cochlear implants</td>
<td>Andrea Nobbe, Uwe Baumann (Innsbruck – Austria; Munich – Germany)</td>
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<tr>
<td>Z6 – P12</td>
<td>3 min</td>
<td>Frequency to electrode allocation in the Med El system for Spanish vowel perception</td>
<td>Leonor Aronson, Esteban Lopez (Buenos Aires – Argentina)</td>
</tr>
<tr>
<td>Z6 – P13</td>
<td>3 min</td>
<td>Experiences with ART (Auditory Nerve Response Telemetry) in MED-EL PULSARC100 patients collected in line with a multicenter pilot study</td>
<td>Ralf Greisiger, Kjell Rasmussen, Ole Tvetet, Arne Rødvik, Sten Harris, Philipp Spitzer, Clemens M Zierhofer, Hansjörg Schösser (Oslo – Norway; Innsbruck – Austria)</td>
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<tr>
<td>Z6 – O14</td>
<td>8 min</td>
<td>Initial evaluation of the SmartNRI</td>
<td>Leonid Litvak, Gulam Emadi (Sylmar – USA)</td>
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<tr>
<td>Z6 – O15</td>
<td>8 min</td>
<td>Neural spread of excitation: an objective tool to improve fitting?</td>
<td>Jeanne Guiraud, Laure Arnold, Patrick Boyle, Filiep Vanpoucke, Luc Van Immerseel,</td>
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<tr>
<td>Z6 – O16</td>
<td>8 min</td>
<td>Optimizing stimulation rate via NRI recordings in response to a burst</td>
<td>Andreas Buechner, Carolin Frohne-Buechner, Martina Brendel, Lutz Gaertner, Anke Lesinski-Schiedat, Thomas Lenarz (Hanover – Germany)</td>
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<tr>
<td>Z6 – P17</td>
<td>3 min</td>
<td>Neural response imaging over time in pre-lingually deaf kids</td>
<td>Volker Meyer, Susanne Lewinski, Wolfgang Kanert, Carolin Frohne-Buechner, Rolf Dieter Battmer, Bodo Bertram, Thomas Lenarz (Hanover – Germany)</td>
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<tr>
<td>Z6 – P18</td>
<td>3 min</td>
<td>Flexible NRI measurements with the HR90K implant</td>
<td>Luc Van Immerseel, Filiep Vanpoucke, Philippe Dykmans, Patrick Boyle (Antwerp – Belgium)</td>
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<tr>
<td>Z6 – P19</td>
<td>3 min</td>
<td>Intra operative NRI’s and eSRT’s for prediction of MCL values</td>
<td>Natasha A. D’Souza, Dillon J.F. D’Souza, Sandra G. DeSa Souza (Mumbai - India)</td>
</tr>
<tr>
<td>Z6 – P20</td>
<td>3 min</td>
<td>Relationship between banded NRI and program parameters</td>
<td>Istemihan Akin, Sumru Yardimci, Laure Arnold (Ankara – Turkey)</td>
</tr>
<tr>
<td>Z6 – P21</td>
<td>3 min</td>
<td>Correlation of banded and single channel NRI to psychophysical measurements</td>
<td>Gul Caner, Laure Arnold, Levent Olgun, Gulrol Gultekin (Izmir – Turkey)</td>
</tr>
<tr>
<td>Z6 – P22</td>
<td>3 min</td>
<td>Optimizing pulse width and rate in HiRes strategies</td>
<td>Johan H.M. Frijns, Raymond M. Bonnet, Otto F. Avenarius, Nanno (F.)A.W. Peek, Wim Soede, Jeroen J. Briaire (Leiden – Netherlands)</td>
</tr>
<tr>
<td>Z6 – P23</td>
<td>3 min</td>
<td>Statistics on impedances and programs of HiResolution users</td>
<td>Filiep Vanpoucke, Carolin Frohne-Buechner, Rolf Dieter Battmer, Thomas Lenarz (Antwerp – Belgium; Hanover – Germany)</td>
</tr>
<tr>
<td>Z6 – P24</td>
<td>3 min</td>
<td>Spectral modulation detection in cochlear implant listeners</td>
<td>Aniket Saoji, Anthony J. Spahr, Leonid Litvak, Gulam Emadi, Kathryn Greenslade (Sylmar, Tempe – USA)</td>
</tr>
<tr>
<td>Z6 – O25</td>
<td>8 min</td>
<td>Evaluation of the CSPE strategy using the SPEAR3 research processor</td>
<td>Erdenebat Dashtseren, Shigeyoshi Kitazawa, Satoshi Iwasaki (Shizuoka – Japan)</td>
</tr>
<tr>
<td>Z6 – O26</td>
<td>8 min</td>
<td>Combination of evoked compound action potential (ECAP) measurements: An investigation of possible application in speech processor fitting and optimal electrode placement during surgery</td>
<td>Ralf Greisiger, Kjell Rasmussen, Ole Tvete, Arne Radvik, Sten Harris (Oslo – Norway)</td>
</tr>
</tbody>
</table>
Lunch Buffet

Friday, 16.06.2006

The Sound of Music (Z7) 14:00 – 16:00

Zeremoniensaal

Chair: Steffi Johanna Brockmeier, Kimitaka Kaga

Z7 – O1 8 min  
**Mu.S.I.C test battery - design and development**  
Denis Fitzgerald, Heather Fitzgerald, Oliver Searle, Johanna Brockmeier (St. Asaph, Glasgow – UK, Munich – Germany)

Z7 – O2 8 min  
**Mu.S.I.C test battery - musical stimuli - a composer's perspective**  
Oliver Searle, Johanna Brockmeier, Denis Fitzgerald, Heather Fitzgerald (Glasgow, St. Asaph – UK, Munich – Germany)

Z7 – O3 8 min  
**Mu.S.I.C test battery - results for normal hearers**  
Heather Fitzgerald, Denis Fitzgerald, Johanna Brockmeier, Oliver Searle (St. Asaph, Glasgow – UK, Munich – Germany)

Z7 – O4 8 min  
**Music perception of different CI users (unilateral, EAS, bimodal) and comparison to normal hearing subjects as assessed in the Mu.S.I.C test**  
Steffi Johanna Brockmeier, Katrien Vermiere, Mary Gradmeder, Silke Helbig, Artur Lorens, Oliver Searle, Martin Petereins, Jan Kiefer et al. (Multicenter – Germany, Belgium, UK)

Z7 – O5 8 min  
**Bilateral cochlear implantation and music perception**  
Stefan Brill, Steffi Johanna Brockmeier, Joachim Müller, Rudolf Hagen (Würzburg, Munich – Germany)

Z7 – O6 8 min  
**What is the difference between speech and music perception with a CI?**  
Jay Rubinstein, Grace Liu, Ward Drennan, Chad Ruffin, Robert Kang (Seattle – USA)

Z7 – O7 8 min  
**Discrimination of musical pitch by cochlear implant users**  
Roland Müller, Sabine Haumann, Michael Ziese, Hellmut von Specht (Magdeburg – Germany)

Z7 – O8 8 min  
**A new test: appreciation of music by cochlear implantees (AMICI)**  
Jaclyn Spitzer, Dean Mancuso (New York – USA)

Z7 – O9 8 min  
**A model of music perception and enjoyment by CI recipients**
Kate Gfeller, John Knutson, Jacob Oleson, Carol Olszewski, Patrick Breheny (Iowa City - USA)

**Z7 – P10** 3 min  
**Pre-to-post cochlear implantation comparisons for music**  
Valerie Looi, Hugh McDermott, Colette McKay, Louise Hickson (Melbourne, Brisbane – Australia; Aston – UK)

**Z7 – P11** 3 min  
**Music enjoyment following cochlear implantation**  
Alejandro Castro, Luis Lassaletta, Marta Bastarrica, Rosa Pérez, Lorena Sanz, Belén Herrán, Maria Josefa Sarriá, Javier Gavilán (Madrid – Spain)

**Z7 – P12** 3 min  
**Recognition of musical sounds among adult cochlear implant patients**  
Hubert Ramos (Manila – Philippines)

**Z7 – P13** 3 min  
**Music benefits with HiRes 120 sound processing**  
Lisa Buckler, Kristen Dawson, Kristin Lisbona, Sue Zimmerman-Phillips (Kansas City – USA)

**Z7 – P14** 3 min  
**Music perception with a cochlear implant: preliminary results of a multi-centric study**  
Bernard Fraysse, Olivier Sterkers, Michel Mondain, Bruno Frachet, Jean-Pierre Bébéar, Julie Bestel, Daniel Pressnitzer, Patrick Boyle (Multicenter – France)

**Z7 – P15** 3 min  
**Music focus groups for adults with cochlear implants**  
Geoff Plant (Innsbruck – Austria)

**Z7 – O16** 8 min  
**Effect of training on music perception by pediatric CI recipients**  
Carol Olszewski, Kate Gfeller, Virginia Drisol (Iowa City – USA)

**Z7 – P17** 3 min  
**The effect of kindergarten chants and music on fluency of prelingual cochlear implanted children**  
Susan Abdi, Hassan Tavakoli, Masoud Naderpour (Teheran – Iran)

**Z7 – P18** 3 min  
**Music perception of children who use cochlear implants**  
Catherine Sucher, Hugh McDermott, Karyn Galvin (Melbourne – Australia)

**Z7 – O19** 8 min  
**Music enjoyment by listeners with a cochlear implant: A teacher’s perspective**  
C. Rocca (?)

**Z7 – O20** 8 min  
**Children with CI – Playing music instruments**  
Gottfried Diller (Friedberg – Germany)
Complications in Cochlear Implantation (Z8) 16:30 – 18:00
Chair: Levent Sennaroglu, Keli Cao

Z8 – O1 8 min  Complications of cochlear implantation
Caglar Batman, Murat Sari, Levent Olgun, Bekir Altay (Multicenter – Turkey)

Z8 – O2 8 min  Traumatic magnet displacement leading to complete magnet extrusion and healing of the extrusion site followed by unimpaired implant use in a 9 year old boy
David P. Morris, Alian Wael, Heather Maessen, Cathy Creaser, Stephanie Demmons – O’Brien, Rene Van Wijhe, Manohar Bance (Halifax – Canada)

Z8 – O3 8 min  The unspoken complication
Neelam Vaid, Kalyani Mandke, Hemant Dabke (Pune – India)

Z8 – O4 8 min  Dislodged magnet from a cochlear implant: A new lasso technique
Frederick K. Kozak, Jon-Ivar Mickelson (Canada)

Z8 – O5 8 min  Facial nerve protection
Hector Ruiz, Lorena Almirón, C. Perez Grassano, Esteban Filas (Rosario – Argentina)

Z8 – O6 8 min  Management of CSF leakage from cochleostomy during cochlear implant surgery
David Haynes, C Wootten, Douglas Backous (Nashville, Seattle – USA)

Z8 – O7 8 min  Saccular disorder after cochlear implant surgery
Dietmar Basta, Ingo Todt, Arne Ernst (Berlin – Germany)

Z8 – O8 8 min  Cochlear implantation in vestibular aplasia
Neelam Vaid, Sanjay Vaid, Kalyani Mandke, Hemant Dabke (Pune – India)

Z8 – O9 8 min  Natural integration of CI ceramic housing into the skull
Milan Profant, Zuzana Kabatova (Bratislava – Slovak Republic)

Z8 – O10 8 min  Survey of prophylactic antibiotic use amongst UK implant
surgeons
Emma Barker, Mike Pringle (Southampton – UK)

Z8 – O11 8 min  Trainee program to educate surgical skills in cochlear implantation
Dirk Mürbe, Matthias Bornitz, Karl-Bernd Hüttenbrink, Thomas Zahnert (Dresden, Cologne – Germany)

Friday, 16.06.2006
Prinz Eugen Saal
08:00 – 10:00

Cochlear Implantation in Malformed Ears (PE5)
Chair: Peter Roland, Manohar Bance

PE5 – O1 8 min  Cochlear Implantation in multi-handicapped children – an update over 171 children
Anke Lesinski-Schiedat, Sujata Grasshof, Andreas Büchner, Thomas Lenarz (Hanover – Germany)

PE5 – O2 8 min  Surgical results of cochlear implantation in malformed cochlea
Levent Sennaroglu, Sarp Sarac, Ergin Turan (Ankara – Turkey)

PE5 – O3 8 min  Cochlear implantation in children with inner ear malformations – audiological results
Christoph Arnoldner, Jafar Sasan Hamzavi, Wolfgang Gstöttner, Christian Czerny, Alexandra Jappel, Wolf Dieter Baumgartner (Vienna – Austria)

PE5 – O4 8 min  Evaluating Usher type 1 patients with cochlear implant: Quality of life, hearing and vision
Godelieve Damen, Ronald Pennings, Paul Krabbe, Emmanuel Mylanus (Nijmegen – Netherlands)

PE5 – O5 8 min  Facial canal anatomy in patients with microtia
Hideki Takegoshi, Kimlaka Kaga (Tokio – Japan)

PE5 – O6 8 min  Cochlear implantation in cases of cochlear dysplasia
Arlene O’Malley, Agnes Allen, J Croft, M Shanks (Kilmarnock – UK)

PE5 – O7 8 min  Children with additional disabilities and deafblindness, who have CI
Lill-Johanne Ellertsen, Anne Beate Borud, Sigurd Helgor (Norway)

PE5 – O8 8 min  Cochlear implantation in children with hypoplastic auditory nerves
Jane Bradley, John Graham, Tim Beale, Mary Bell (London – UK)
PE5 – O9 8 min  Auditory neuropathy / auditory dys-syncrony and cochlear implants: Clinical cases  
Maria Cecilia Bevilacqua, Ana Claudia de F. Martinho, Koichi Sameshima, Orozimbo Alves Costa (Sao Paulo – Brazil)

PE5 – O10 8 min  Clinical implication of inner ear anomaly in cochlear implant  
Joong Wook Shin, Hee-Nam Kim, Ho-Ki Lee (Seoul - Korea)

PE5 – O11 8 min  Surgical technique for the Nucleus double array cochlear implant in ossified cochleas  
Arthur Castilho, Ricardo Bento, Rubens Brito Neto (Sao Paulo – Brazil)

PE5 – O12 8 min  Cochlear implants in children with autism spectrum disorder  
Dayan Wardrop, Ailsa Stewart, Shani Dettman, Sandra Lettieri, Rod Hollow, Richard Dowell (Melbourne – Australia)

PE5 – O13 8 min  Cochlear implantation in multihandicapped children  
Gürol Gültekin, Levent Olgun, Sezaver Alper, Gül Caner, Mehmet Z Özüer, Ylker Nabant, Burcu Ückan (Izmir – Turkey)

PE5 – O14 8 min  Pneumocephalus and surgical emphysema: An unusual complication of cochlear implantation  
Manohar Bance, Abjulrahaman Hag (Halifax – Canada)

Coffee Break

Friday, 16.06.2006
Prinz Eugen Saal

Audiological Outcome (PE6) 10:30 – 12:30
Chair: Jon Shallop, Michael Dorman

PE6 – O1 8 min  Applications of speech in noise testing using the BKB-SIN test for cochlear implant and hearing aid patients  
Jon Shallop, Anna Mary Petersen, Jon Douglas (Rochester – USA)

PE6 – O2 8 min  Effects of cochlear implantation on gustatory function  
Christian A Müller, Saher Khatib, Andreas FP Temmel, Wolf Dieter Baumgartner (Vienna – Austria)

PE6 – O3 8 min  Outcomes of the multi-centre objective measures study  
Natacha Crozat-Teissier, Laure Arnold, Patrick Boyle, Thierry Van Den Abbeele (Paris – France)

PE6 – O4 8 min  Chronic results from a psychoacoustic model based strategy  
Andreas Buechner, Waldo Nogueira, Bernd Edler, Thomas Lenarz (Hanover –
<table>
<thead>
<tr>
<th>Session</th>
<th>Duration</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE6 – P5</td>
<td>3 min</td>
<td><strong>Long-term follow up of psychophysical parameters in cochlear implant users</strong></td>
<td>Jozef G Kiss, Ferenc Tóth, Alice Szamosközi, Attila Torkos, Janos Jarabin, Jeno Czigner, Jozef Jóri (Szeged – Hungary)</td>
</tr>
<tr>
<td>PE6 – P6</td>
<td>3 min</td>
<td><strong>Loudness function in cochlear implantees</strong></td>
<td>George Tavartkiladze, Alexander Kruglov, Lilia Potalova (Moscow – Russia)</td>
</tr>
<tr>
<td>PE6 – O7</td>
<td>8 min</td>
<td><strong>Factors effecting speech perception in cochlear implanted adults</strong></td>
<td>Arkadiusz Wąsowski, Artur Lorens, Anna Piotrowska, Henryk Skarżyński, A Szkiełkowska (Kajetany – Poland)</td>
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<tr>
<td>PE6 – P8</td>
<td>3 min</td>
<td><strong>Peripheral physio-anatomical factors influence CI outcomes</strong></td>
<td>Charles Finley, Laura Holden, Tim Holden, Bruce Whiting, Margo Skinner (Chapel Hill, St. Louis – USA)</td>
</tr>
<tr>
<td>PE6 – O9</td>
<td>8 min</td>
<td><strong>Prediction of outcomes for prelingually hearing impaired adults using cochlear implants</strong></td>
<td>Jaime Leigh, Ennur Erbasi, Richard Dowell, Sylvia Tari, Vikki Tselepis (Melbourne – Australia)</td>
</tr>
<tr>
<td>PE6 – P10</td>
<td>3 min</td>
<td><strong>Over the fence cochlear implantation: is it worthwhile?</strong></td>
<td>Geneviève Tremblay, François Bergeron, Pierre Ferron (Quebec – Canada)</td>
</tr>
<tr>
<td>PE6 – O11</td>
<td>8 min</td>
<td><strong>Preliminary results on automatic cochlear implant fitting using interactive evolutionary algorithm</strong></td>
<td>Esther Harboun Cohen, Vincent Péan, Pierre Collet, Claire Bourgeois République, Pierrick Legrand, Bertrand Philippon, Michel-Christian Ouayoun, Bruno Frachet (Multicenter – France)</td>
</tr>
<tr>
<td>PE6 – O12</td>
<td>8 min</td>
<td><strong>Results of cochlear implantation with Digisonic SP CI system</strong></td>
<td>Kazimierz Niemczyk, Lidia Mikolajewska, Krzysztof Morawski, Zuzanna Lukaszewicz, Agnieszka Woziak, Malgorzata Kaczorowska, Katarzyna Bienkowska (Warsaw – Poland)</td>
</tr>
<tr>
<td>PE6 – O13</td>
<td>8 min</td>
<td><strong>The effects of significant residual hearing on self satisfaction or self report of benefit in cochlear implanted adults</strong></td>
<td>Malgorzata Zgoda, Juana Putkiewicz, Arkadiusz Wąsowski, Artur Lorens, Anna Piotrowska, Henryk Skarżyński (Kajetany – Poland)</td>
</tr>
<tr>
<td>PE6 – O14</td>
<td>8 min</td>
<td><strong>Cochlear implantation in patients with significant residual hearing</strong></td>
<td>Harold C. Pillsbury, Carol Pillsbury, Emily Buss, Marcia S. Clark, Robert Cullen, Craig A. Buchman (Chapel Hill - USA)</td>
</tr>
<tr>
<td>PE6 – P15</td>
<td>3 min</td>
<td><strong>Preservation of residual hearing in cochlear implantees – Pilot study</strong></td>
<td>Neelam Vaid, Kalyani Mandke, Hemant Dabke (Pune – India)</td>
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<tr>
<td>PE6 – P16</td>
<td>3 min</td>
<td><strong>A comparison of the acoustical and electrical stimulation on cochlear implanted patients</strong></td>
<td>Mehmet Aksit, Asuman Erol, Ferda Akd (Istanbul – Turkey)</td>
</tr>
<tr>
<td>PE6 – P17</td>
<td>3 min</td>
<td><strong>Cochlea implantation in high degree burning</strong></td>
<td>Ingo Todt, Dietmar Basta, Rainer Seidl, Ame Ernst (Berlin – Germany)</td>
</tr>
</tbody>
</table>
Impact of cochlear implantation on subjective quality of life changes and correlation to audiometric data
Anke Hirschfelder, Stefan Gräbel, Heidi Olze (Berlin – Germany)

Lunch Buffet
Prinz Eugen Saal
Friday, 16.06.2006

Electric Acoustic Stimulation (PE7) 14:00 – 16:00
Chair: Henryk Skarzynski, Christoph von Ilberg

Results from a multi-centre EAS clinical investigation
Wolfgang Gstöttner, Paul Van de Heyning, Alec Fitzgerald O’Connor, Constantino Morera, Manuel Sainz (Multicenter – Germany, Belgium, UK, Spain)

Results of partial deafness cochlear implantation (PDCI) study
Henryk Skarżyński, Artur Lorens, Anna Piotrowska (Kajetany – Poland)

Retention / improvement of residual hearing after EAS cochlear implant surgery
Alec F Fitzgerald O’Connor, Sonelle McDonald (London – UK)

Residual hearing and electro-acoustic stimulation with Nucleus 24 CA
Bernard Fraysse, Olivier Deguine, Chris James, Ángel Ramos, Sandro Burdo, Richard Ramsden, Deborah Mawman (Multicenter – France, Spain, Italy, UK)

Clinical, surgical and histopathological results from Vienna electro acoustic surgeries
Wolf Dieter Baumgartner, Alexandra Jappel, Klemens Frei, Reinhard Ramsebner, Karl Großschmidt, Maria Lautischer, Sonja Reiß (Vienna – Austria)

First case of bilateral electro acoustic stimulation
Nicola Maier, Silke Helbig, Andreas Radellof, Marc Unkelbach, Wolfgang Gstöttner (Frankfurt – Germany)

Electrophysiological and histological evaluation of the cochlear apical region in guinea pig after cochlear implantation: the viability of hearing preservation
Arthur Castilho, Ricardo Bento (Sao Paulo – Brazil)

Blood admixture to the scala tympani has detrimental effects on hearing thresholds
Andreas Radeloff, Marc Unkelbach, Oliver Adunka, Jochen Tillein, Rainer Hartmann,
**PE7 – O9**  
8 min  
**Treatment options for patients with residual low-frequency hearing**  
Michael Dorman, Rene Gifford, Anthony Spahr, Sid Bacon (Tempe - USA)

**PE7 – O10**  
8 min  
**Combined electric and acoustic stimulation of the ipsilateral cochlear**  
René Gifford, Michael Dorman, Anthony Spahr, Sid Bacon, Charles Luetje, Kristen Dawson (Tempe – USA)

**PE7 – O11**  
8 min  
**Stability of hearing preservation after partial deafness cochlear implantation (PDCI)**  
Anna Piotrowska, Henryk Skarżyński, Artur Lorens (Kajetany – Poland)

**PE7 – P12**  
3 min  
**Bimodal hearing in electric acoustic stimulation**  
Katrien Vermeire, Ilona Anderson, Paul Van de Heyning (Antwerp – Belgium)

**PE7 – P13**  
3 min  
**Listening quality in EAS individuals**  
Ilona Anderson, Marc Unkelbach, Katrien Vermeire, Sonelle McDonald, Laura Cavalle (Multicenter – Austria, Germany, Belgium, UK, Spain)

**PE7 – P14**  
3 min  
**Influence of electric and acoustical fitting parameters in EAS**  
Marek Polak, Marcus Schmidt, Marc Unkelbach, Wolfgang Gstoettner (Innsbruck – Austria; Frankfurt – Germany)

**PE7 – P15**  
3 min  
**Features of a combined EAS device and their effectiveness in EAS users**  
Marcus Schmidt, Marek Polak (Innsbruck – Austria)

**PE7 – P16**  
3 min  
**The influence of different speech processor and hearing aid settings on speech perception outcomes in EAS patients**  
Katrien Vermeire, Ilona Anderson, Mark Flynn, Paul Van de Heyning (Multicenter – Belgium, Austria, Denmark)

**PE7 – O17**  
8 min  
**Preliminary results with the new DUET® in EAS users**  
Silke Helbig, Marc Unkelbach, Nicola Maier, Lucas Lehning, Marcus Schmidt, Andreas Radeloff, Wolfgang Gstoettner (Frankfurt – Germany)

**PE7 – O18**  
8 min  
**Preservation of residual hearing with a new straight electrode**  
Thomas Lenarz, Rolf-Dieter Battmer, Andreas Buechner, Joerg Pesch, Anke Lesinski-Schiedat, Robert Briggs, Kerrie Plant (Hanover – Germany; Melbourne – Australia)

**PE7 – O19**  
8 min  
**Acoustic-electric stimulation with the Nucleus Freedom system**  
Hugh McDermott, Andrea Simpson, Catherine Sucher (Melbourne – Australia)

**PE7 – O20**  
8 min  
**Preliminary results with Nucleus Hybrid cochlear implant**  
Michael Jackson, William Shapiro, Susan Waltzman (New York – USA)

**PE7 – O21**  
8 min  
**Interference with cochlear mechanics as a postulated mechanism for systematic loss of residual hearing following cochlear implantation**  
Andrzej Zarowski, Erwin Offeciers, Thomas Somers, Stefaan Peeters (Antwerp – Belgium)
Coffee Break

Friday, 16.06.2006
Prinz Eugen Saal
16:30 – 18:00

Cochlear Implantation In Very Young Children (PE8)
Chair: Richard Miyamoto, Arthur Castilho

PE8 – O1  8 min  Cochlear implantation in infants
Richard T Miyamoto, Derek Houston, Tonya Bergeson-Dana (Indianapolis – USA)

PE8 – O2  8 min  Surgical procedure for small children at Karolinska University Hospital / Huddinge, Stockholm
Anders Freijd (Huddinge – Sweden)

PE8 – O3  8 min  Surgical and general aspects of cochlear implantation in very young children under the age of 12 months
Joachim Müller, Stefan Brill, Wafaa Shehata-Dieler, Birgit May-Mederake, Herbert Kühnigk, Jan Helms, Rudolf Hagen (Würzburg – Germany)

PE8 – O4  8 min  Surgical procedure of cochlear implantation in small children
Henryk Skarzyński, Maciej Mrówka, Paulina Miotkowska-Klimek, R Podskarbi, Anna Piotrowska (Kajetany – Poland)

PE8 – O5  8 min  Details in cochlear implantation: fixation of receiver housing and electrode carrier in very young children
Gerald Baier, Joachim Müller, Franz Schön, Jan Helms (Würzburg – Germany)

PE8 – O6  8 min  Cochlear implants for infants under 12 months
Shani Dettman, Jaime Leigh, Richard Dowel, Darren Pinder, Robert Briggs (Melbourne – Australia; Oxford – UK)

PE8 – O7  8 min  Outcomes in children fitted with cochlear implant between age 3 and 12 months
Liliana Colletti, Marco Camer, Vittorio Colletti (Verona – Italy)

PE8 – O8  8 min  Medical aspects of cochlear implantation under the age of 2
years
Leila Migirov, Jona Kronenberg (Tel Aviv- Israel)

PE8 – O9  8 min  **Early cochlear implantation comparison with a group of later implantation**
Christophe Vincent, Isabelle Ruzza, Françoise Michel Vaneecloo, Emilien Radafy, Philippe Bordure, Laurent Coffinet, Bettina Verient-Montaut, John Economides et al. (Multicenter – France, Greece)

PE8 – P10  3 min  **A prescreening method to detect CI candidates in infancy**
Zsolt Farkas, György Várallyay jr., Gábor Katona, Zoltán Benyó, András Illényi, Monika Sultész (Budapest – Hungary)

PE8 – P11  3 min  **Validity of universal newborn hearing screening**
Milan Profant, Zuzana Kabatova, Oliver Profant, Marian Groma (Bratislava – Slovak Republic)

PE8 – P12  3 min  **Hypoacusia early detection program in Rosario, Argentina**
Hector Ruiz, Adriana Queirolo, Gabriela Dotto, Esteban Filas (Rosario – Argentina)

PE8 – P13  3 min  **High risk indicators for hearing loss in neurosensorial hypoacusia in Rosario, Argentina**
Hector Ruiz, Adriana Queirolo, Gabriela Dotto, Esteban Filas (Rosario – Argentina)

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**Friday, 16.06.2006**

**Gartensaal**

**Experiences in Cochlear Implantation (G5) 08:00 – 10:00**
Chair: Susan Abdi, Klaus Albegger

G5 – O1  8 min  **Pediatric speech recognition at one year post implantation**
Karen C. Johnson, Leslie Visser-Dumont, Laurie S. Eisenberg, Alexandra L. Quittner, Emily A. Tobey, Nancy E. Fink, Nae-Yu Wang, John K. Niparko (Multicenter – USA)

G5 – O2  8 min  **Outcome of cochlear implantation in paediatric patients**
Alper Sezaver, Levent Olgun, Gürrol Gültekin, Murat Koç (Izmir – Turkey)

G5 – O3  8 min  **Auditory neuropathy: Clinical picture and auditory test results as a new syndrome**
Susan Abdi (Teheran – Iran)

G5 – O4  8 min  **Intelligibility in hearing aid and cochlear implant users**
Jonathan Ting, Steven B. Chin, Rong Amy Qi, Sujuan Gao, Richard T. Miyamoto (Indianapolis – USA)

G5 – O5  8 min  **Clinical and surgical correlates of auditory and language**
outcomes in the multicenter CDaCI study
Howard Francis, Laurie Eisenberg, Alexandra Quittner, Nancy Fink, Emily Tobey, Nae Yuh Wang, John Niparko (Multicenter – USA)

G5 – O6 8 min
Predicting performance based on traditional preoperative testing: Results of the US Med El bilateral cochlear implant trial
David Haynes, S Amberg, RF Labadie, Craig A Buchman, Amy Barco, L Hood, Harold Pillsbury (Chapel Hill – USA)

G5 – O7 8 min
Cochlear implantation in children: insights from 15 years of experience
Maria Huber, Wolfgang Hitzl, Klaus Albegger (Salzburg – Austria)

G5 – O8 8 min
The domain of hearing threshold in cochlear implanted prelingually children
Susan Abdi, Hassan Tavakoli, Masoud Naderpour (Teheran – Iran)

G5 – P9 3 min
Blink reflex and auditory speech perception in prelingually cochlear implanted children
Hessamaldin Emamdjomeh, Mohammad IFarhadi, Saeid Hassanzadeh, Ahmad Daneshi (Theran – Iran)

G5 – P10 3 min
Babbling after implantation between 5 and 20 months
Paul J Govaerts, Karen Schauwers, Kristin Daemers, Geert De Ceulaer, Carina De Beukelaer, Marjan Yperman, Steven Gillis (Antwerp – Belgium)

G5 – O11 8 min
An investigation into cochlear implant use in a paediatric population
Catherine Totten, Jane Martin, Christopher Raine (Bradford – UK)

G5 – P12 3 min
Production of Mandarin tone by children with normal hearing
Geoff Plant (Innsbruck – Austria)

G5 – O13 8 min
Age at CI and performance in prelingually deaf children
Norma Pallares, Vicente Diamante, Elisa Giraudo, M Laura López (Buenos Aires – Argentina)

G5 – O14 8 min
Literacy outcomes after cochlear implantation in childhood
Janet Olds, Elizabeth Fitzpatrick, Kelley Rabjohn, Robin Gaines, Andree Durieux-Smith, David Schramm (Ottawa – Canada)

G5 – P15 3 min
Perception of familiar melodies by Taiwanese pediatric cochlear implant recipients who speak a tonal language
Fei-Lin Hsiao, Kate Gfeller, Carol Olszewski, Tsun-Sheng Huang, Huei-Chen Hsu (Iowa City – USA; Taipei – Taiwan)

G5 – P16 3 min
Outcomes among three siblings implanted below 3 years of age
Karla A. Balko, Hilary Szymanski, Jaye Berghauer, Dione Langley, Christine Runge-Samuelson, P. Ashley Wackym (Milwaukee – USA)

G5 – P17 3 min
Cochlear implants in children from bilingual and monolingual homes
Hussam K. El-Kashlan, Ellen S. Thomas, Terry Zwolan (Ann Arbor - USA)

G5 – P18 3 min
Children with cochlear implants in conversation with normally
9th INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS
AND RELATED SCIENCES
14.06 – 17.06.2006
Hofburg Congress Center
Vienna, Austria

hearing peers
Tina Ibertsson, Kristina Hansson, Birgitta Sahlén (Lund – Sweden)

Coffee Break
Friday, 16.06.2006
Gartensaal
10:30 – 12:30

Audiological Outcome of Bilateral Cochlear Implantation
(G6)
Chair: Jill Firszt, Erwin Offeciers

G6 – O1  8 min  Adult bilateral cochlear implant outcomes
Christy E. Powell, Peter S. Roland, Angela G. Shoup (Dallas – USA)

G6 – O2  8 min  Bilateral implantation in adults: results from 20 cases
Jean-Pierre Bébéar, Sylvie Lautissier, Bernadette Carbonnière, Géraldine Coriat, Max
Beraha, Jacques Martel, René Dauman (Bordeaux – France)

G6 – O3  8 min  Review of clinical outcomes in adult bilateral cochlear implant
recipients following 3 years of implantation
Marcia S. Clark, Emily Buss, Subinoy Das, Harold C. Pillsbury, Carol Pillsbury, Craig A.
Buchman (Chapel Hill – USA)

G6 – O4  8 min  Sound localisation for children with bilateral cochlear implants
Eva Kindlundh, Marja Vainio, Martin Eklöf, Filip Asp, Gunnar Eskilsson, Eva Karltorp
(Huddinge – Sweden)

G6 – O5  8 min  Simultaneous bilateral implantation in adults: is the expected ear
always the better ear?
Joseph B. Roberson Jr, Michelle M. Inserra, Lisa Tonokawa, Larisa D. Kunda (East
Palo Alto – USA)

G6 – O6  8 min  Sequential bilateral implantation in children: effect of timing
between implants and hearing aid
Joseph B. Roberson Jr, Michelle M. Inserra, Lisa Tonokawa, Larisa D. Kunda (East
Palo Alto – USA)

G6 – O7  8 min  Longitudinal audiological follow up of children with bilateral
cochlear implants
Erwin Offeciers, Leen Theuwis, Andrzej Zarowski, Isabelle Schatteman, Margriet
<table>
<thead>
<tr>
<th>Session</th>
<th>Duration</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6 – P8</td>
<td>3 min</td>
<td><strong>Clinical outcomes in adult bilateral cochlear implantation</strong></td>
<td>Monica Lee, Eva M. Bero, Sarah F. Poissant, Daniel J. Lee (Worcester – USA)</td>
</tr>
<tr>
<td>G6 – P9</td>
<td>3 min</td>
<td><strong>Spatial hearing performance of bilateral implanted children</strong></td>
<td>Norberto Martínez (Manila – Philippines)</td>
</tr>
<tr>
<td>G6 – P10</td>
<td>3 min</td>
<td><strong>Auditory localisation with bilateral Med-el Combi-40+ cochlear implant users</strong></td>
<td>Carl Verschuur, Mark Lutman (Southampton – UK)</td>
</tr>
<tr>
<td>G6 – P11</td>
<td>3 min</td>
<td><strong>Bilateral cochlear implantation in comparatively long surgical interval</strong></td>
<td>Lisheng Yu, Ruiming Xia, Xihong Wu, Zigang Jang, Yuanyuan Jing, Yunjuan Lin (Beijing – China)</td>
</tr>
<tr>
<td>G6 – P12</td>
<td>3 min</td>
<td><strong>Long term evaluation of sequential bilateral cochlear implantation</strong></td>
<td>Claire Fielden, Rachel Lowther (Birmingham - UK)</td>
</tr>
<tr>
<td>G6 – P13</td>
<td>3 min</td>
<td><strong>A case study of a bilateral sequentially implanted Meniere’s patient</strong></td>
<td>Melissa Burnham, Jennifer Kolb (London – UK)</td>
</tr>
<tr>
<td>G6 – O14</td>
<td>8 min</td>
<td><strong>Speech performances in bilateral adult users of Med-el cochlear implants</strong></td>
<td>Isabelle Mosnier, Jean-Pierre Bebear, Benoit Godey, Bernard Fraysse, Alain Robier, Philippe Bordure, Michel Mondain, Olivier Deguine (Multicenter – France)</td>
</tr>
<tr>
<td>G6 – P15</td>
<td>3 min</td>
<td><strong>Bilateral cochlear implantation – A case in need for meningitic patients</strong></td>
<td>David Strachan, Christopher Raine, Catherine Totten, Jane Martin, Salim Khan (Bradford – UK)</td>
</tr>
<tr>
<td>G6 – P16</td>
<td>3 min</td>
<td><strong>Development after bilateral implantation: Special cases</strong></td>
<td>Klaus Berger, Parwis Mirsalim, Silvia Zichner (Berlin – Germany)</td>
</tr>
<tr>
<td>G6 – O17</td>
<td>8 min</td>
<td><strong>Bilateral cochlear implantation in deaf-blind users</strong></td>
<td>Francois Bergeron, Catherine Champagneau, Pierre Ferron (Quebec – Canada)</td>
</tr>
<tr>
<td>G6 – O18</td>
<td>8 min</td>
<td><strong>Analysis of the “software” - fitting parameters at bilaterally implanted CI users</strong></td>
<td>Armin Bernhard, Peter Nopp (Aachen – Germany; Innsbruck – Austria)</td>
</tr>
<tr>
<td>G6 – P19</td>
<td>3 min</td>
<td><strong>Binaural perception with the Digisonic SP Binaural</strong></td>
<td>Eric Truy, Cyprien Butnaru, Stephane Gallego, Bertrand Philippon, David Veran, Lionel Collet (Lyon, Vallauris – France)</td>
</tr>
<tr>
<td>G6 – O20</td>
<td>8 min</td>
<td><strong>Bilateral HiRes 90K benefit: U.S. multicenter study</strong></td>
<td>Dawn Burton Koch, Mark Downing, Gulam Emadi, Mary Joe Osberger (Sylmar – USA)</td>
</tr>
</tbody>
</table>
Lunch Buffet

Friday, 16.06.2006

Neural Response Measurements (G7) 14:00 – 16:00
Chair: Norbert Dillier, Angel Ramos

G7 – O1 8 min  Changes in t-NRT over time
Ricky Kaplan-Neeman, Ziva Yakir, Fanny Bloch, Yael Henkin, Lela Migirov, Jona Kronenberg, Minka Hildesheimer, Chava Muchnik (Tel Aviv – Israel)

G7 – O2 8 min  Correlation of NRT / map-mismatch and speech understanding
Matthias Stecker, Roland Laszig (Freiburg – Germany)

G7 – O3 8 min  AutoNRT in implanting the severely malformed cochlea
Katrina R. Stidham, Danielle Knowlton, Lisa Tonokawa, Joseph B. Roberson (East Palo Alto – USA)

G7 – P4 3 min  Surgeon performed Auto-NRT: an aid to cochlear implant mapping
Joseph B Roberson Jr, Lisa Tonokawa– Marcacci, Michelle Inserra, Larisa Kunda, Rebecca Highlander, Katrina Stidham (East Palo Alto – USA)

G7 – P5 3 min  Speech processor fitting in very young children using Nucleus NRT based maps
Rolf D. Battmer, Bodo Bertram, Wolfgang Kanert, Sabine von der Haar-Heise, Friederike Junge, Joerg Pesch, Thomas Lenarz (Hanover – Germany)

G7 – P6 3 min  Correlations of speech recognition scores with NRT measurements
Alicia Huarte, Laura Cavallé, Elisabeth Estrada, Gabriela Meco, Chrystelle Coudert-Koall, Manuel Manrique, Constantino Morera, Luis Garcia-Ibañez et al. (Multicenter – Spain)

G7 – P7 3 min  Intra-operative TECAP measurement using AutoNRT
Joachim Müller-Deile, André Morsnowski (Kiel – Germany)

G7 – P8 3 min  AutoNRT intraoperative measurements for CI fitting: Preliminary results
Constantino Morera-Ballester, Laura Cavalle, Constantino Morera (Valencia – Spain)
<table>
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<tr>
<td>G7 – P9</td>
<td>3 min</td>
<td>Electrode impedance in children using the Nucleus 24 CI</td>
<td>Norma Pallares, Karina Fanelli, Elisa Giraudo, Vicente Diamante (Buenos Aires – Argentina)</td>
</tr>
<tr>
<td>G7 – P10</td>
<td>3 min</td>
<td>The effect of simultaneous pulses on vowel perception</td>
<td>Colette McKay (Birmingham – UK)</td>
</tr>
<tr>
<td>G7 – P11</td>
<td>3 min</td>
<td>Conditioning effects of high-level sweeps on intra-operatively measured ECAP</td>
<td>Ulrich Hoppe, Frank Diageser (Erlangen – Germany)</td>
</tr>
<tr>
<td>G7 – O12</td>
<td>8 min</td>
<td>Can ECAP measures predict preference for ACE stimulation rates?</td>
<td>Rolf-Dieter Battmer, Thomas Lenarz, Ernst von Wallenberg, Matthijs Killian, Joerg Pesch, Benno Weber, Waikong Lai, Norbert Dillier (Multicenter – Germany, Switzerland, Belgium)</td>
</tr>
<tr>
<td>G7 – P13</td>
<td>3 min</td>
<td>Relationship between Auto NRT, ESRT and behavioural T &amp;C levels with the Nucleus Freedom cochlear implant – preliminary results</td>
<td>Talma Shpak, Mira Berlin, Michal Luntz (Haifa – Israel)</td>
</tr>
<tr>
<td>G7 – P14</td>
<td>3 min</td>
<td>ECAP threshold estimation with AutoNRT of the Nucleus Freedom system</td>
<td>Thomas Wesarg, Matthias Stecker, Antje Aschendorff, Thomas Klenzner, Roland Laszig (Freiburg – Germany)</td>
</tr>
<tr>
<td>G7 – P15</td>
<td>3 min</td>
<td>Determination of perceptual channels created by current steering</td>
<td>Manuela Mazzoli, Mariella De Benedittis, Cristina Giacomelli, Gregorio Babighian (Padova – Italy)</td>
</tr>
<tr>
<td>G7 – P16</td>
<td>3 min</td>
<td>Sinusoidal analysis of audio for current steering strategies in cochlear implants</td>
<td>Waldo Nogueira, Bernd Edler, Carolin Frohne-Büchner, Martina Brendel, Andreas Büchner (Hanover – Germany)</td>
</tr>
<tr>
<td>G7 – P17</td>
<td>3 min</td>
<td>Do users benefit from intermediate channels created by current steering?</td>
<td>Andreas Buchner, Martina Brendel, Carolin Frohne-Büchner, Beate Krueger, Timo Stoever, Thomas Lenarz (Hanover – Germany)</td>
</tr>
<tr>
<td>G7 – P18</td>
<td>3 min</td>
<td>Effect of increased IIDR in the Nucleus Freedom CI system</td>
<td>Laura Holden, Margo Skinner (St. Louis – USA)</td>
</tr>
<tr>
<td>G7 – P19</td>
<td>3 min</td>
<td>Determination of perceptual channels</td>
<td>Gül Caner, Laure Arnold, Levent Olgun, Gürol Gültekin (Izmir – Turkey)</td>
</tr>
<tr>
<td>G7 – O20</td>
<td>8 min</td>
<td>Within subject study of perceptual channels and HiRes 120</td>
<td>Jill B. Firszt, Laura K. Holden, Ruth M. Reeder, Margaret W. Skinner (St. Louis – USA)</td>
</tr>
<tr>
<td>G7 – P21</td>
<td>3 min</td>
<td>Asymmetric pulses in cochlear implant stimulation: what polarity should we use?</td>
<td>Olivier Macherey, Astrid van Wieringen, Robert P. Carlyon, John M. Deeks, Jan Wouters (Leuven – Belgium; Cambridge – UK)</td>
</tr>
</tbody>
</table>
Artefact reduction in neural response imaging via a triphasic 
stimulation signal
Lutz Gärtner, Carolin Frohne-Büchner, Martina Brendel, Andreas Büchner, Rolf-Dieter 
Battmer, Thomas Lenarz (Hanover – Germany)

Intracochlear current spread in subjects with and without 
positioner
Rolf-Dieter Battmer, Ilka Sproegel, Carolin Frohne-Buechner, Andreas Buechner, 
Thomas Lenarz (Hanover – Germany)

Preliminary evaluation of phase-lock coding for cochlear 
implants
Pim van Dijk, Els Gelders, Peter Bracke, Wiebe Horst (Multicenter – Netherlands, 
Belgium)

Banded neural response imaging using HI-Res sound 
processing
William Shapiro, Anne Kalberer, Susan Waltzman (New York – USA)

Loudness of partially-tripolar stimulation: model and data
Leonid Litvak, Anthony J. Spahr, Gulam Emadi, Michael Dorman (Tempe – USA)

Current steering: New model insights
Jeroen J. Briaire, Randy R.Kalkman, Johan H.M. Frijns (Leiden – Netherlands)

Perceptual dimensions of current steered electrodes
Filiep Vanpoucke, Jeroen Briaire, Patrick Boyle, Johan Frijns (Antwerp – Belgium; 
Leiden – Netherlands)

Friday, 16.06.2006

Gartensaal

Bone Anchored Hearing Aids (G8)  16:30 – 18:00

Chair: Anders Tjellström, David Proops
9th INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS AND RELATED SCIENCES
14.06 – 17.06.2006
Hofburg Congress Center
Vienna, Austria

G8 – O1  8 min  Results with self-tapping implants for BAHA
Anders Tjellström (Göteborg – Sweden)

G8 – O2  8 min  Skull vibration measurements with the BAHA
Manohar Bance, Osama Majdalawiehr, Rene van Wijhe (Halifax – Canada)

G8 – O3  8 min  Do pre-implant BAHA sound field thresholds predict post-implant thresholds?
Wael Alian, Abdul-rahman Hagr, Mark Gulliver, David P. Morris, Manohar Bance
(Halifax – Canada)

G8 – O4  8 min  The Baha applied in subjects with unilateral conductive hearing loss
Emmanuel Mylanus, Ad Snik, Myrthe Hol, Cor Cremers (Nijmegen – Netherlands)

G8 – O5  8 min  Predictive factors improving the benefit of BAHA application in patients with single sided deafness
Nadia Verstraeten, Andrzej Zarowski, Daphna Riff, Sofie Furniere, Isabelle Schatteman, Margriet Verstreken, Thomas Somers, Erwin Offeciers (Antwerp – Belgium)

G8 – O6  8 min  Frequency of skin necroses after BAHA surgery
Anders Tjellström (Göteborg – Sweden)

G8 – O7  8 min  Loss of vibration amplitude across the BAHA snap coupling
Manohar Bance, Osama Majdalawiehr, Rene van Wijhe (Halifax – Canada)

G8 – O8  8 min  A comparative analysis of office versus operation room insertion of the BAHA
Peter J. Catalano (Burlington - USA)

G8 – O9  8 min  The Bradford BAHA programme – impact of the multidisciplinary team
Christopher H Raine, Paul Goodyear (Bradford – UK)

Round Table BAHA

Moderator:  Anders Tjellström (Göteborg – Sweden)
Panelists:  To be determined
Friday, 16.06.2006

The Mayor and Governor of Vienna,
the Organising Committee of the 9th International
Conference on Cochlear Implants and Related Sciences
with the friendly support of
Cochlear Corporation

to the

Gala Buffet at the City Hall of Vienna

Gala Buffet with music (Ambassade Sextett Wien)

End
Saturday, 17.06.2006

Otoprotection (F9)
Chair: Thomas van de Water, Jan Kiefer

F9 – O1 10 min  
Trauma-induced hearing loss, Corticosteroids: Otoprotection  
Thomas R Van De Water, Adrien A Eshraghi, Eelam Adil, Korey Jaben, Reid Garvey, Jiao He, Thomas Balkany (Miami – USA)

F9 – O2 10 min  
Protection against trauma-induced hearing loss by an inhibitor of the MAPK/JNK cell death signal cascade  
Adrien Eshraghi, Jiao He, Eelam Adil, Marek Polak, Reid Graves, Brian Gibson, Thomas J Balkany et al. (Miami – USA)

F9 – O3 10 min  
Protection against hearing loss by growth factor and antioxidant therapy  
Josef M Miller, Colleen LePrell, Daisuke Yamashita, Mats Ulfendahl, Richard A Altschuler (Ann Arbor – USA; Tokio – Japan; Stockholm – Sweden)

F9 – O4 10 min  
Trauma initiated cell death in the cochlea  
Philippe Lefebvre, François Lallemend, Brigitte Malgrange (Liege – Belgium)

F9 – O5 10 min  
The role of inflammation and inflammatory mediators in post implantation hearing loss  
Hinrich Staecker (Kansas City – USA)

F9 – O6 10 min  
Auditory neurons: Restorative therapy  
Helge Rask-Andersen (Uppsala – Sweden)

F9 – O7 10 min  
Regeneration of the human auditory nerve - A study using video microscopy and SEM of in vitro regenerated auditory nerve growth cones  
Malin Anderson, Marja Boström, Kristian Pfaller, Rudolf Glueckert, Annelies Schrott-Fischer, Helge Rask-Andersen (Uppsala – Sweden; Innsbruck – Austria)

F9 – O8 10 min  
Hearing preservation with steroids in cochlea implanted guinea pigs  
Susanne Braun, Qing Ye, Jan Kiefer, Wolfgang Gßtöttner, Jochen Tillein (Frankfurt – Germany)
Round Table Otoprotection:

**Moderator:** Thomas Van de Water (Miami - USA)

**Panelists:**
- Thomas Balkany (Miami – USA)
- Adrien Eshraghi (Miami - USA)
- Phillipe Lefebvre (Liege - Belgium)
- Josef Miller (Ann Arbor – USA)
- Helge Rask-Andresen (Uppsala - Sweden)
- Hinrich Staecker (Kansas City– USA)

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**Med-El Coffee Break**

Saturday, 17.06.2006  
Festsaal

**Electric Acoustic Stimulation (F10)**  
10:30 – 12:30

Round Table EAS:

**Moderator:** Wolfgang Gstöttner (Frankfurt – Germany)

**Panelists:**
- Blake Wilson (RTI – USA)
- Henryk Skarzynski (Kajetany – Poland)
- Jan Kiefer (Munich – Germany)
- Bruce Gantz (Iowa City – USA)
- Bernard Fraysse (Toulouse – France)
- Wolf-Dieter Baumgartner (Vienna – Austria)

Saturday, 17.06.2006  
Festsaal

**Closing Ceremony**  
12:30 – 12:45
Saturday, 17.06.2006

**Education (Z9)**

Chair: Emilie Tobey, Levent Olgun

**08:00 – 10:00**

- **Z9 – O1** 8 min  
  **STEPS: From hearing to talking – a package for families and professionals**  
  Sue Archbold, Gill Datta (Nottingham – UK)

- **Z9 – O2** 8 min  
  **Language skills of school-aged children with cochlear implants**  
  Marcia Hay-McCutcheon, David Pisoni, Karen Ilir Kirk, Richard Miyamoto (Indianapolis – USA)

- **Z9 – O3** 8 min  
  **Language competence - Bilingualism children with cochlear implants**  
  Gottfried Diller (Friedberg – Germany)

- **Z9 – P4** 3 min  
  **Verbal and non verbal communication strategies of an implanted child with his hearing twin and parents**  
  Angela Musacchio, Maria Nicastri, Roberto Filipo (Rome – Italy)

- **Z9 – O5** 8 min  
  **Socialisation of CI children over the past 10 years – expectation reached?**  
  Markus Lesinski, Thomas Lenarz, Anke Lesinski-Schiedat (Hanover – Germany)

- **Z9 – O6** 8 min  
  **Non-word discrimination skills in deaf infants**  
  David L. Horn, Derek M. Houston, Richard T. Miyamoto (Indianapolis – USA)

- **Z9 – O7** 8 min  
  **Listening, phonological awareness and speaking skills of CI users**  
  Linda Spencer (Iowa City – USA)

- **Z9 – O8** 8 min  
  **Educational follow up of 24 children with cochlear implants**  
  Ann Elise Kristoffersen, Oddvar Hjulstad (Oslo – Norway)

- **Z9 – O9** 8 min  
  **Educational development of implanted children in Latin America**  
  Carolina Abdala-Felisari, Lilian Flores-Beltrán (Mexico City – Mexico)

- **Z9 – O10** 8 min  
  **Speech identification in Spanish-speaking children with cochlear implant**  
  Leonor Aronson, Santiago L Arauz, Patricia A Estienne, Carina Graciano, Ana M Scaglia (Buenos Aires – Argentina)

- **Z9 – P11** 3 min  
  **Cochlear implants and English as a second language: outcomes**  
  Christopher J. Linstrom, Janet R. Schoepflin, Carol A. Silverman, Nancy S. Gilston (New York – USA)

- **Z9 – O12** 8 min  
  **Cochlear implants and FM: Technology and educational considerations**  
  Johnnie E. Sexton (Eriksholm – Denmark)
Z9 – O13 8 min Verifying FM benefit in children with cochlear implants
Mary Beth Brinson (London – UK)

Z9 – O14 8 min A model for providing outreach services to early intervention specialists
Terry Zwolan, Donna Sorkin, Anita Vereb (Ann Arbor – USA)

Z9 – P15 3 min Validation of LittlEars questionnaire for Serbian language in normal hearing children under age of two
Branka Mikic, Nenad Arsovic, Sanja Ostojc, Danica Miric (Belgrade – Serbia and Montenegro)

Z9 – P16 3 min The use of peabody picture vocabulary test - Croatian with deaf students
Lidija Andrijevic (Zagreb – Croatia)

Z9 – P17 3 min Mainstreaming of bilingual CI children in a developing country
Rebecca Santos (Manila – Philippines)

Z9 – O18 8 min Nottingham early assessment package: expectations of progress in young implanted children
Sue Archbold (Nottingham – UK)

Med-El Coffee Break

Saturday, 17.06.2006  Zeremoniensaal
10:30 – 12:30

Worldwide Experiences in Cochlear Implants (Z10)
Chair: Milan Profant, Ahmed Handoussa

Z10 – O1 8 min History and development of cochlear implant
Sreeshyla Basavaraj, Girish Boggaram (St. Helen’s – UK)

Z10 – O2 8 min Why don’t all patients receive cochlear implants?
Sylvia Tari, Mai Nguyen, Richard Dowell (Melbourne – Australia)
Z10 – P3  3 min  Expanding selection criteria study  
Rachel Lowther, Wanda Aleksy, Susan White, Paula Greenham, Mary Bell (Multicenter – UK)

Z10 – O4  8 min  Cochlear implantation – is younger better? An overview of the evidence  
Monika Lehnhardt (Basel – Switzerland)

Z10 – O5  8 min  Prospective benefits of deep electrode insertion for children with CI  
Claude Jolly, Joachim Mueller (Innsbruck – Austria; Würzburg – Germany)

Z10 – P6  3 min  Prevention versus intervention: Early interaction and small talk  
Clare Sheridan, Suzanne Harrigan, Kate Hanvey (Multicenter – UK)

Z10 – P7  3 min  Case study of a patient with a partial insertion of the Med El Pulsar CI100 Standard electrode array  
Amanda Scott, Colleen Polite, Lawrence Lustig (San Francisco – USA)

Z10 – P8  3 min  Cochlear implantation in severe traumatic brain injured patient  
Yong-Bum Cho, Hyong-Ho Cho, Chul-Ho Jang, Min-Kyung Song (Gwangju – Korea)

Z10 – P9  3 min  Curious about sound after years of silence  
Lynne Tapper (Bradford – UK)

Z10 – P10  3 min  Newborn hearing screening in Belgrade  
Snežana Babac, Dragoslava Đeric, Zoran Ivankovic, Biljana Prokic (Belgrade – Serbia and Montenegro)

Z10 – P11  3 min  From NHS to CI - Dilemmas and pitfalls  
Sanja Spiric, Predrag Spiric, Dalibor Vranjes (Banja Luka – Republic of Srpska, Bosnia and Herzegovina)

Z10 – O12  8 min  10 years cochlear implantation in Croatia  
Robert Trotic, Boris Pegan, Branco Kekic, Mihael Ries, Petar Drvis, Jakov Ajduk (Zagreb – Croatia)

Z10 – O13  8 min  Development of cochlear implantation in Lithuania  
Egle Gradauskiene (Kaunas – Lithuania)

Z10 – O14  8 min  Cochlear implant in ENT Department Timisoara  
Stan Cotulbea, Horatiiu Stefanescu, Stelian Lupescu, Alin Horia Marin, Caius Doros, Virgilius Draganescu, Kanha Marin (Timisoara – Romania)

Z10 – O15  8 min  Outcomes in patients with Med El cochlear implant in Iasi, Romania  
Dan Martu, Sebastian Cozma, Luminita Radulescu, Corina Butnaru (Iasi – Romania)

Z10 – P16  3 min  Assessment of the cochlear implanted children  
Violeta Necula, Marcel Cosgarea (Cluj – Romania)

Z10 – P17  3 min  Cochlear implantation in Armenia: first steps  
Arthur Shukuryan, Vigen Bakhshinyan, Inessa Harutyunyan (Yerevan – Armenia)
Z10 – P18 3 min  Overview of cochlear implantation in India - challenges and solutions for the developing world
Mohan Kameswaran (Chennai – India)

Z10 – P19 3 min  Cochlear implantation in a developing country
J. Douglas Green Jr, Joel N. Anthis, Gordon F. Tinley, Christy Kruger (Jacksonville – USA; Jos – Nigeria)

Z10 – P20 3 min  Remote programming and support of cochlear implantation via internet connectivity
Gordon F. Tinley, J. Douglas Green Jr, Joel N. Anthis, Christy Kruger (Jacksonville – USA; Jos – Nigeria)

Z10 – O21 8 min  Experience on medical supports to multiple cochlear implantation centers
Dao-xing Zhang (Beijing – China)

Z10 – P22 3 min  A review of service delivery at south of England cochlear implant centre 1990-2005
Julie Eyles, Sarie Cross (Southampton – UK)

Z10 – P23 3 min  Cochlear implantation in Thailand
Suchitra Prasansuk, Samut Chongvisal, Chana Siriyananda, Suvajana Athipas (Bangkok – Thailand)

Z10 – P24 3 min  Small incision technique for a Med El Combi 40+ cochlear implantation
Charlotte Chiong (Manila – Philippines)

Saturday, 17.06.2006

Outcome and Performance (G9) 8:00 – 10:00

Gartensaal

Chair: Jean Pierre Bebear, Constantino Morera

G9 – O1 8 min  Recognition of auditory patterns in cochlear implant users
Maria Cecilia Bevilacqua, Natália Barreto Frederique, Koichi Sameshima, Alves Costa (Sao Paulo – Brazil)

G9 – P2 3 min  Continuous improvement in lexical tone perception as the number of channels increased
Yung-Song, Shu-Chen, Fei-Peng Lee (Taipei – Taiwan; Iowa City – USA)

G9 – P3 3 min  Behavioural assessment and use of accessories in every day situations
Martina Brendel, Beate Krüger, Carolin Frohne-Büchner, Anke Lesinski-Schiedat, Thomas Lenarz (Hanover – Germany)
<table>
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</tr>
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<tr>
<td>G9 – P4</td>
<td>3 min</td>
<td>Correlation between speech comprehension and width of spread excitation profiles</td>
<td>Adam Walkowiak, Artur Lorens, Krzysztof Kochanek, Andrzej Czyżewski (Warsaw, Gdansk – Poland)</td>
</tr>
<tr>
<td>G9 – P5</td>
<td>3 min</td>
<td>Pitch scaling versus spread of excitation in cochlear implant user</td>
<td>Adam Walkowiak, Artur Lorens, Arkadiusz Wąsowski, Henryk Skarżyński (Warsaw – Poland)</td>
</tr>
<tr>
<td>G9 – O6</td>
<td>8 min</td>
<td>Spread of excitation function in meningitic and in non-meningitic deaf cochlear implant users</td>
<td>M. Valeria Schmidt Goffi Gomez, Carolina Abdala F, Mariana Guedes, Cristina Ornelas, Rubens Brito Neto, Arthur Castilho, Ricardo Bento (Sao Paulo – Brazil)</td>
</tr>
<tr>
<td>G9 – P7</td>
<td>3 min</td>
<td>Demographics of cochlear implantation in the United States</td>
<td>Donna Sorkin (McLean – USA)</td>
</tr>
<tr>
<td>G9 – P8</td>
<td>3 min</td>
<td>Evaluation of the Auria+ sound processor</td>
<td>Christiane Séguin, Shelly Armstrong, Josée Chénier, Elizabeth MacDonald (Ottawa – Canada)</td>
</tr>
<tr>
<td>G9 – P9</td>
<td>3 min</td>
<td>Evaluation of HiRes® 120 in children</td>
<td>Danielle Dzubak, Annie Vranesic, Leslie Visser-Dumont (Los Angeles – USA)</td>
</tr>
<tr>
<td>G9 – O10</td>
<td>8 min</td>
<td>HiRes90K in children</td>
<td>Jean-Pierre Bébéar, Sylvie Lautissier, Géraldine Coriat, Sandra Azzopardi, Isabelle Gavilan, René Dauman (Bordeaux – France)</td>
</tr>
<tr>
<td>G9 – P11</td>
<td>3 min</td>
<td>Perceptual channels determination in CII and 90K users</td>
<td>Patrizia Mancini, Federica Babini, Deborah Hallantyne, Ersilia Bosco, Laure Arnold, Roberto Filipo (Rome – Italy)</td>
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<td>G9 – P12</td>
<td>3 min</td>
<td>Benefits of HiRes 120: Multicenter study results</td>
<td>Mary Joe Osberger, Andrew Quick (Sylmar – USA)</td>
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<td>G9 – P13</td>
<td>3 min</td>
<td>Pediatric high resolution study: 3 – 36 months use</td>
<td>Ersilia Bosco, Luciana D’Agosta, Gabriella Traisci, Patrizia Mancini, Roberto Filipo (Rome – Italy)</td>
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<td>G9 – O14</td>
<td>8 min</td>
<td>Patient performance with the Advanced Bionics High Res 90K with HiFocus Helix electrode</td>
<td>David Schramm, Christiane Séguin, Elizabeth Fitzpatrick, Shelly Armstrong, Josée Chenier (Ottawa – Canada)</td>
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<tr>
<td>G9 – P15</td>
<td>3 min</td>
<td>Two measures of high frequency consonant production</td>
<td>Geoff Plant (Innsbruck – Austria)</td>
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<td>G9 – P16</td>
<td>3 min</td>
<td>Outcomes in speech recognition and production, phonology and memory</td>
<td>Elizabeth Fitzpatrick, Janet Olds, Kelley Rabjohn, Rosemary McCrae, Robin Gaines, Andrée Durieux-Smith, David Schramm (Ottawa – Canada)</td>
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<td>G9 – P17</td>
<td>3 min</td>
<td>Speech recognition tests in noisy circumstances</td>
<td>Ferenc Tóth, Jozef G Kiss, Alice Szamoskozi, Attila L Nagy, Éva M Szabados, Jozsef Jóri (Szeged – Hungary)</td>
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Impaired hearing and nasalance  
Rainer Müller, Albrecht Niemz (Dresden – Germany)

Enhancing Chinese tone recognition in cochlear implantees  
Mei-Ji Horng, Chuan-Jen Hsu, Qian-Jie Fu, Xin Luo (Multicenter – China, Taiwan, USA)

Memory and cognition: Critical variables in implant benefit  
John F. Knutson, Camille Dunn, Kevin Schartz, Haihong Ji (Iowa City – USA)

Bimodal hearing: Cochlear implant and hearing aid in opposite ears  
Lisa Potts, Margaret Skinner, Ruth Litovsky (Seattle, Milwaukee – USA)

Benefits of bimodal stimulation for adult cochlear implant users  
Elizabeth Fitzpatrick, Christiane Séguin, Josée Chénier, Shelly Armstrong, David Schramm (Ottawa – Canada)

Formulation of language structures in a bilingual setting  
Leah M. Labrador, Georgina D. Mojica (Manila – Philippines)

Speech cue weighting in children with hearing impairment  
Junghwa Bahng, Mark Hedrick, Deborah von Hapsburg (Nashville – USA)

Results for different groups of cochlear implanted patients  
Jowka Spiridonova, Diana Popova (Sofia – Bulgaria)

Bimodal studies using adaptive dynamic range optimization (ADRO) technology  
Takako Iwaki, Takeshi Kubo (Osaka – Japan)
9th INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS AND RELATED SCIENCES
14.06 – 17.06.2006
Hofburg Congress Center
Vienna, Austria

G10 – P2 3 min  The effect of depth of insertion of cochlear implant electrodes on speech understanding
Dillon J.F. D’Souza, Sandra G. DeSa Souza, Natasha A. D’Souza (Mumbai - India)

G10 – P3 3 min  Benefits of deep electrode insertion in postlingually deafened CI users – a prospective long-term study
Gert Joseph, Andreas Büchner, Andreas Jäger, Guido Reetz, Peter Nopp, Thomas Lenarz (Hannover – Germany; Innsbruck – Austria)

G10 – P4 3 min  Speech perception of children using Combi-40 / Combi-40+ devices implanted at a very young age
Denise Rosenberger, Andreas Engel, Andre Gurr, Stefan Dazert, Thomas Stark (Bochum – Germany)

G10 – O5 8 min  Speech discrimination with the MED-EL Medium cochlear implant electrode
Marcia S. Clark, Oliver F. Adunka, Harold C. Pillsbury, Carol Pillsbury, Craig A. Buchman (Chapel Hill – USA)

G10 – O6 8 min  The Würzburg experience with new cochlear implant technology
Joachim Müller, Stefan Brill, Rudolph Hagen (Würzburg – Germany)

G10 – O7 8 min  Cochlear implantation in patients with Otosclerosis, clinical and audiometric aspects
Liselotte Rotteveel, Ad Snik, David Proops, Huw Cooper, Richard Ramsden, Shaqueel Saeed, Deborah Mawman, Adriaan van Olphen et al. (Multicenter – Netherlands, UK)

G10 – O8 8 min  Otosclerosis: Which ear to implant?
Stephen O’Leary, Alexia Matterson, Robert Briggs, Darren Pinder (Melbourne – Australia)

G10 – O9 8 min  Cochlear re-implantation
David Strachan, Anne Costa, Chris Raine, Catherine Totten, Jane Martin (Bradford – UK)

G10 – O10 8 min  Cochlear implantation in the early deafened population
Molly Justus (Durham - USA)

G10 – O11 8 min  Cochlear implantation in the elderly – short and long term experience
Miriam Bürklein, Beatrice Knaus, Stefan Brill, Franz Schön, Jan Helms, Joachim Müller, Rudolf Hagen (Würzburg – Germany)

G10 – O12 8 min  Performance of elderly cochlear implant recipients
David Schramm, Ali Safar, Christiane Séguin, Shelly Armstrong, Josée Chenier, Elizabeth Fitzpatrick (Ottawa – Canada)

G10 – O13 8 min  Cochlear implant supply in respect of the elderly
Goetz Brademann, Joachim Müller-Deile, Petra Ambrosch (Kiel – Germany)

G10 – O14 8 min  Management and outcomes of meningitic hearing loss
Yogesh Bajaj, David Strachan, Jane Martin, Catherine Totten, Chris Raine (Bradford – UK)
G10 – O15  8 min  Cochlear implantation in patients with postmeningitis deafness  
Jona Kronenberg, Lela Migirov, Chava Muchnik, Ricky Teitelbaum, Minka Hildesheimer (Tel Aviv – Israel)

G10 – O16  8 min  Cochlear implants in post meningitis children  
Leopoldo José Cordero, Silvia Noemí Breuning, Jorge Moretti (Buenos Aires – Argentina)

G10 – P17  3 min  Long term results of cochlear implantation in postlingually deaf patients with totally ossified cochlea  
Mohammad Farhadi, Saeid Hassanzadeh, Hessam Emamdjomeh, Ahmad Daneshi (Teheran – Iran)

G10 – O18  8 min  Impact of cochlear implantation on voice development of congenitally deaf children  
Gürol Gültekin, Levent Olgun, Uğur Çerçi, Gül Caner, Emel Çerçi (Izmir – Turkey)

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