Szeged, Hungary
June 15-18
2016

9TH INTERNATIONAL SYMPOSIUM
on objective measures in auditory implants

Website: http://www.objective-measures.org/

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Wednesday, June 15

19:00  WELCOME RECEPTION AT THE CONGRESS VENUE

Thursday, June 16

Session A

08:00  OPENING

08:15  KEYNOTE SPEAKER 1.
      To monitor cochlear function during cochlear implantation and determine correlations with postoperative acoustic hearing
      Stephen J. O’Leary1, Luke C. Campbell1, Robert Briggs1, Arielle Kaicer2
      1Department of Surgery (Otolaryngology), Univ. of Melbourne, East Melbourne, Australia,
      2Cochlear Implant Clinic, Royal Victorian Eye and Ear Hosp., East Melbourne, Australia.

08:40 - 09:45  INTRAOPERATIVE MONITORING I.
      (Structured section I. A)

08:40  Electrode array tip foldover detection by intraoperativespread of excitation measurements
      Tim Liebscher, Frank Digeser, Ulrich Hoppe
      Cochlear Implant Centrum CICERO, Department of Audiology, ENT-clinic, University of Erlangen-Nuremberg, Germany

08:50  A voltage telemetry technique for estimating cochlear implant electrode angular insertion depth
      Ryan O. Melman1, Ralf Greisiger2, Joseph Giorgio3, Paul M. Carter1, Greg E. Jablonski2, Marie Bunne2, Hilde Korslund4, Per K. Hol4, Nick Pawsey1, Frank Risi1
      1Cochlear Limited, Sydney Australia
      2Department of Otolaryngology, Oslo University Hospital, Oslo Norway
      3Department of Psychology, University of Cambridge, Cambridge UK.
      4The Intervention Centre, Oslo University Hospital, Oslo, Norway

09:00  Intra-operative assessment of Direct Acoustic Cochlear Implant functioning using ABRs and ASSRs
      Hanne Deprez1,2, Robin Gransier1, Michael Hofmann1, Marc Moonen2, Jan Wouters1, Nicolas Verhaert1,3
      1ExpORL, Dept. of Neurosciences, KU Leuven, Leuven, Belgium
      2STADIUS, Dept. of Electrical Engineering (ESAT), KU Leuven, Leuven, Belgium
      3Head and Neck Surgery, Dept. of Otolaryngology, University Hospitals Leuven, Leuven, Belgium

09:10  Intraoperative ElectrococleographyDuring Cochlear Implant Surgery
      W. Jason Rigs1, Michael Harris1, Oliver Ad unk1, Kanth Koka2
      1Ohio State University Wexner Medical Center, Department of Otolaryngology – Head and Neck Surgery
      2Advanced BionicsLLC – Research and Technology

09:20  Extra- and intracochlear electrophysiological recordings during cochlear implantation
      S. Haumann1,2, V. Helmstaedter1,2, H. Maier1,2, Th. Lenarz1,2
      1ENT Department, Medical School Hannover
      2Cluster of Excellence Hearing4All
09:30 A novel intra-operative ECAP recording paradigm using continuous interleaved stimulation
Sumit Agrawal

09:45 BREAK

10:15 KEYNOTE SPEAKER 2.
Fine-Grain ART study
Lutz Gärtner
Hannover Medical School, Department Of Otolaryngology, Hannover, Germany

10:40 - 12:00 INTRAOPERATIVE MONITORING II.
(Free paper section I. B)

10:40 Monitoring Cochlear Physiology Using Extracochlear Electrocochleography during Implant Insertion
Douglas C Fitzpatrick¹, Chris Giardina¹, Tatyana Fontenot¹, Oliver F Adunka², Craig A Buchman³, Harold C. Pillsbury¹, Kevin D. Brown¹
¹Dept. of Otolaryngology and Head and Neck Surgery, University of North Carolina, Chapel Hill NC, 27514 USA
²Dept. of Otolaryngology-Head and Neck Surgery, The Ohio State University, Columbus OH, 43212 USA
³Dept. of Otolaryngology-Head and Neck Surgery, Washington University School of Medicine, St. Louis, MO 63110 USA

10:50 Electrocochleographyto Monitor Cochlear Function During Cochlear Implantation
Huber A, Dalbert A, Pfiffner F, Veraguth D, Roosli C,
University of Zurich, Switzerland, Department of Otorhinolaryngology – Head and Neck Surgery

11:00 Optimizing electrode array position of the Cochlear CI532 Slim Modiolar electrode array with per-operative fluoroscopy and Evoked Compound Action Potentials
Ralf Greisiger¹, Hilde Korslund², Marie Bunne³, Greg Eigner Jablonski¹, Per Kristian Hol²
¹Department of Otolaryngology, Oslo University Hospital, Norway
²Intervention Centre, Oslo University Hospital, Norway

11:10 Electrically evoked potentials of the apical and medial region of the cochlea in children implanted with deep insertion electrodes
Raquel Lopes-Fontanelli, Ana Adelina Della Torre, M. Valéria Schmidt Goffi-Gomez, Roberto Beck, Liliane Ikari, Robinson Koji Tsuji, Rubens Brito Neto, Ricardo Ferreira Bento Otorhinolaryngology Division of Clinical Hospital of the Faculty of Medicine from the University of São Paulo

11:20 Electrocochleography for Monitoring of Residual Hearing during and after Cochlear Implantation
Andreas Buechner, Sabine Haumann, Benjamin Krueger, Kanthaiah Koka, Gunnar Geissler, Thomas Lenarz

11:30 Intraoperative testing of Cochlear Nucleus electrodes – CI512 vs. CI532
Adam Perenyi, Ferenc Toth, Balazs Dimak, Greta Csonra, Balint Posta, Alice Szamoskozi, Jozsef Jori, Jozsef Geza Kiss, Laszlo Rovo
Department of Otorhinolaryngology, Head and Neck Surgery, University of Szeged, Hungary
11:40 Attenuation of noise induced hearing loss by near-infrared-light pre-treatment
D. Basta1, I. Strübing1, M. Gröschel1, D. Jiang2, P. Boyle3, A. Ernst1
1Dept. of Otolaryngology at UKB, University of Berlin, Germany,
2Dept. of Otolaryngology at St Thomas' hospital, University of London, UK
3Advanced Bionics European Research Center, Hanover, Germany

11:50 Chronic animal model of cochlear implantation in guinea pigs: interests and applications for comparison of loudness coding using pulse amplitude or pulse duration
Dan Gnansia1, Victor Adenis2, Boris Gourévitch2, Matthieu Recugnat1, Pierre Stahl1, Elisabeth Mammelle2, Yann Nguyen1, Jean-Marc Edeline2
1Oticon Medical CI Scientific Research, Vallauris France
2NeuroPSI UMR CNRS9197, Paris-Sud Univ., Orsay, France
3UMR-S 1159 INSERM/UPMC Paris 6 Univ., Pitié Salpêtrière Hospital, Paris, France

12:00 LUNCH

13:00 INDUSTRY SYMPOSIUM

14:00 KEYNOTE SPEAKER 3.
Imaging to avoid trauma
J.H.M. Frijs
ENT-department, Leiden University Medical Center, Leiden, The Netherlands

14:25 - 15:30 IMAGINE TECHNIQUES
(Structured section II. C)

14:25 Audiovisual speech recognition in cochlear implant users measured with functional near-infrared spectroscopy
M.M. van Wanrooij1, L.P.H. van de Rijt2, A. Roye1, E.A.M Mylanus2, A.F.M. Snik2, A.J. van Opstal1
1Department of Biophysics, Donders Institute for Brain, Cognition, and Behaviour, Radboud University, Nijmegen, Netherlands
2Department of Otorhinolaryngology, Donders Institute for Brain, Cognition, and Behaviour, Radboudumc, Nijmegen, Netherlands

14:35 Electrophysiologic detection of scalar changing perimodiolar cochlea electrode arrays: a follow-up study
P. Mittmann, A. Ernst, G. Rademacher, S. Mutze, S. Lang, D. Arweiler-Harbeck, F. Christov, I. Todt
Department of Otolaryngology, Head and Neck Surgery, Unfallkrankenhaus Berlin, Germany

14:45 Predicting the degree of difficulty in cochlear implant surgery – the use of an objectively structured imaging based grading system
Ameet Kishore1, Ashwani Kumar1, Neevita Narayan2
1Indraprastha Apollo Hospital, New Delhi, India
2SpHear Speech & Hearing Clinic, New Delhi, India

14:55 MRI based estimation of scalar cochlear implant electrode position
I. Todt1, A. Stratmann1, G. Rademacher2, P. Mittmann1, G. Grupe1, S. Hofmann1, S. Mutze2, A. Ernst1
1Unfallkrankenhaus Berlin, Germany, Department of Otolaryngology, Head and Neck Surgery,
2Unfallkrankenhaus Berlin, Germany, Department of Radiology
15:05  Deconvolution of Spread of Excitation Curves: Towards Identification of the Excitation Area  
J.D. Biesheuvel, J.J. Briaire and J.H.M. Frijns  
ENT-department, Leiden University Medical Center, Leiden, The Netherlands

15:15  Effects of unilateral hearing loss on speech in noise comprehension measured with functional imaging  
Jill B Firszt¹, Harold Burton²,³, Alvin Algato², Tim Holden¹, Ruth M Reeder⁴  
¹Washington University School of Medicine, Department of Otolaryngology  
²Washington University School of Medicine, Neuroscience  
³Washington University School of Medicine, Radiology

15:30  BREAK

16:00 - 18:10  ECAP DETECTION I.  
(Free paper section II. D)

16:00  Non-linear behavior of the amplitude growth functions of electrically evoked compound action potentials at higher stimulation levels  
Carolin Frohne-Buechner¹, Matthias Hey², Britta Boehnke², Lutz Gaertner⁴, Stefan Fredelake¹, Idrick Akhoun¹, Joachim Mueller-Deile¹, Andreas Buechner⁴  
¹Advanced Bionics GmbH, European Research Center, Hannover  
²Klinik für Hals-, Nasen-, Ohrenheilkunde, Kopf- und Halschirurgie, Universitätsklinikum Schleswig-Holstein  
³Audiology Consultant, Kiel  
⁴Klinik und Poliklinik für Hals-Nasen-Ohrenheilkunde, Medizinische Hochschule Hannover

16:10  Evaluation of eCAP Thresholds Derived from Amplitude Growth Functions  
J.H.M. Frijns, J.D. Biesheuvel and J.J. Briaire  
ENT-department, Leiden University Medical Center, Leiden, The Netherlands

16:20  The Accuracy of Electrically Evoked Compound Action Potential Threshold Measurements  
J.J. de Vos, P.S. Boot, J.J. Briaire and J.H.M. Frijns  
ENT-department, Leiden University Medical Center, Leiden, The Netherlands

16:30  Behavioural and ECAP measures of temporal processing in cochlear implant listeners at switch-on and 2 months later  
J.M. Deeks¹, A.J. Billig¹, F. Guérin¹, Y. Tam², R.P. Carlyon¹.  
¹MRC Cognition and Brain Sciences Unit, Cambridge, UK.  
²Addenbrooke’s NHS Trust, Cambridge, UK.

16:40  ECAP Characteristics and Artifacts for Diverse Recording Electrodes  
Konrad E. Schwarz¹, Stefan B. Strahlf¹, Philipp Spitzer¹, Angelika Dierker¹, Florian Schwarze¹, Santiago L. Arauz², Marcus Atlas², Wolf-Dieter Baumgartner², Marco Caversaccio², Han DeMin², Javier Gavilán², Benoit Godey², Joachim Müller², Lorne Parnes², Christopher H. Raine², Gunesh Rajan², José Antonio Rivas², Henryk Skarzynski², Yuri Yanov², Patrick Zorowka², Paul van de Heyning²  
¹MED-EL HQ, Innsbruck, Austria;  
²Members of HEARRING, Network of Comprehensive Hearing Implant Centers
16:50 Characterization of Electrically Evoked Compound Action Potentials in Patients with a Hybrid Cochlear-Vestibular Implant
T.A.K. Nguyen¹, K. Schwarz², S. Cavuscens³, M. Ranieri³, S. Micera¹, A. Perez-Fornos³
¹Bertarelli Foundation Chair in Translational Neural Engineering, Center for Neuroprosthetics, EPF Lausanne, Switzerland
²MED-EL, Innsbruck, Austria
³Cochlear Implant Center for French Speaking Switzerland, Service of Otolaryngology-Head & Neck Surgery, Geneva University Hospitals, Rue Gabrielle-Perré-Perret-Gentil 4, 1211 Geneva, Switzerland
⁴BioRobotics-Institute, Scuola Superiore Sant’Anna, P.za Martiri della Liberta’ 33, 56127 Pisa, Italy

17:00 Amplitudes of Electrically Evoked Compound Action Potentials in Children and Adults
Ulrich Hoppe, Thomas Hocke, Tim Liebscher, Frank Digeser
Cochlear Implant Centrum CICERO, Department of Audiology, ENT-clinic, University of Erlangen-Nuremberg, Germany

17:10 Recordings of acoustic evoked potentials directly from the different places of cochlea via intracochlear electrodes in cochlear implantees
A. Walkowiak¹, A. Lorens¹, M. Polak², H. Skarzyński¹
¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/Warsaw, Poland
²Med-El, Innsbruck, Austria

17:20 Assessing the firing properties of the electrically stimulated auditory nerve using a convolution model
Dyan Ramekers¹,², Stefan B. Strahl³, Marjolijn M.B. Nagelkerke¹, Konrad E. Schwarz³, Philipp Spitzer³, Sjaak F.L. Klis¹,², Huib Versnel¹,²
¹Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht, Utrecht, the Netherlands;
²Brain Center Rudolf Magnus, Utrecht, the Netherlands;
³R&D MED-EL GmbH, Innsbruck, Austria

17:30 Cochlea Health Measurements To Show The Efficiency Of Steroid Treatment During Cochlear Implantation Using A Cochlear Catheter
Lutz Gärtner, Athanasia Warnecke, Ariane Römer, Verena Scheper, Thomas Lenarz
Hannover Medical School, Department Of Otolaryngology, Hannover, Germany

17:40 Myographic Recordings of the Electrically and Acoustically Elicited Stapedial Reflex with a Chronically Implanted Recording Electrode
M. Gröschel¹, D. Basta¹, R.-D. Battmer¹, P. Boyle², A. Ernst¹
¹Dept. of Otolaryngology at UKB, University of Berlin, Germany,
²Advanced Bionics European Research Center, Hanover, Germany

17:50 Changes in the temporal response of the auditory nerve over time: Recovery function after 12 months of cochlear implant use
Cintia Tizue Yamaguchi (Yamaguchi CT)¹, Maria Valéria Schmidt Goffi-Gomez (Goffi-Gomez MVS)², Manoel da Silva Filho (da Silva Filho M)²
¹Neuroengineering Laboratory of the Federal University of Pará-Brazi
²Otorhinolaryngology Division of Clinical Hospital of the Faculty of Medicine from the University of São Paulo

18:00 Comparison of interaural electrode pairing methods for bilateral cochlear implantation
Mathias Dietz

20:00 OPTIONAL SOCIAL PROGRAMS
Session B

10:40 - 12:00 DIAGNOSTIC, BONE CONDUCTION
(Free paper section I. BB)

10:40 Wave propagation on the surface of the skull in bone conduction stimulation
Röösli C1, Dobrev I1, Sim JH1, Pfiffner F1, Dalbert A1, Stenfelt S2, Huber AM1
1University Hospital Zurich
2Linköping University

10:50 Intracochlear Sound Pressure Measurements with a Newly Developed MEMS Condenser-Microphone-Based Sensor
Flurin Pfiffner1, Lukas Prochazka2,3, Dominik Péus1, Ivo Dobrev1, Adrian Dalbert1, JaeHoon Sim1, Dominik Obrist1, Joris Walraevens5, Francesca Harris3, Christof Röösli1, Alexander Huber1
1University of Zurich, University Hospital Zurich, Dept. Otorhinolaryngology, Head and Neck Surgery, Zürich, Switzerland
2Institute of Fluid dynamics, Swiss Federal Institute of Technology (ETHZ), Zurich, Switzerland
3Streamwise GmbH, Technoparkstrasse 1, 8005 Zürich, Switzerland
4ARTORG Center, University of Bern, Switzerland
5Cochlear Technology Centre Belgium

11:00 Nasal sound pressure as verification of a Bone Conduction Implant
Sabine Reinfeldt1, Bo Håkansson1, Karl-Johan Fredén Jansson1, Cristina Rigato1, Måns Eeg-Olofsson2
1Dept of Signals and Systems, Chalmers University of Technology, Gothenburg, Sweden
2Dept of Otorhinolaryngology, Head and Neck Surgery, Sahlgrenska University Hospital, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

11:10 Promontory electrically auditory brainstem response recording with MED-EL clinical system
Giacomo Mandruzzato1, Marek Polak1
1R&D, MED-EL GmbH, Innsbruck, Austria

11:20 Use of aided cortical assessment in cochlear implant candidacy evaluation
Laurie Behar, Muamner Gulekin, Julie Kosaner
Meders speech and Hearing Clinic, Kadıkoy, Istanbul, Turkey

11:30 How steady is the auditory steady-state response?
ExpORL, Dept. Neurosciences, KU Leuven, Belgium

11:40 Pre-operative measurement of auditory evoked cortical responses in adult cochlear implant candidates
R.G. Mathew1, J. Undurraga1,2, G. Li3, D.Vickers1
1UCL Ear Institute, 332 GraysInn Road, London, WC1X 8EE, UK
2Department of Linguistics, The Australian Hearing Hub, 16 University Avenue, Macquarie University, NSW 2109, Australia

11:50 New Finding ABR’s Character as a Tool in children with Speech Delay with Unknown Cause
Susan Abd

12:00 LUNCH

13:00 BREAK
16:00 - 18:20 EXAMINATION OF THE CORTICAL FUNCTION I.
(Free paper & poster section II. DD)

16:00 The acoustic change complex and its relation to speech perception in noise in sensorineural hearing impairment
B. M. D. Vonck¹, M. J. W. Lammers¹, W. A. A. Schaake¹, G. A. van Zanten¹, H. Versnel¹, W. Grolman¹
¹Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht

16:10 Auditory evoked responses to pitch matched stimuli in unilateral cochlear implant users with residual hearing in the non-implanted ear
Chin-Tuan Tan¹, Brett Martin², and Mario Svirsky¹
¹Department of Otolaryngology, NYU School of Medicine
²Speech and Hearing Sciences, CUNY

16:20 Working memory capacity and its influence on hearing in cochlear implant users
Hanna Bönitz¹, Andreas Büchner¹,², Bruno Kopp³, Mareike Finke¹,²
¹Department of Otolaryngology, Hannover Medical School, Germany
²Cluster of Excellence "Hearing4all"
³Department of Neurology, Hannover Medical School, Germany

16:30 Auditory and Audio-visual Processing in Individuals with Auditory Implants: Electrophysiological Findings in Cochlear, Auditory Brainstem and Auditory Midbrain Implant Patients
Irina Schierholz¹,², Mareike Finke¹,², Andrej Kral¹,³, Thomas Lenarz¹,³, Reinhard Dengler¹,², Sabine Haumann¹,³, Pascale Sandmann¹,²,⁵
¹Cluster of Excellence „ Hearing4all „, Germany
²Department of Neurology, Hannover Medical School, Germany
³Department of Otolaryngology, Hannover Medical School, Germany
⁴Institute of Audioneurotechnology, Hannover Medical School, Germany
⁵Department of Otorhinolaryngology, University of Cologne, Germany

16:40 Bimodal processing with AEP recordings, part I: evidence from the cognitive P300 auditory Event-Related Potential
Van Yper L. N.¹,², Dhooge I. J. M.¹,², Vermeire K.³, De Vel E. F. J.², Beynon A. J.⁴
¹Department of Otorhinolaryngology, Ghent University, De Pintelaan 185, 1P1, B-9000 Ghent, Belgium
²Department of Otorhinolaryngology, Ghent University Hospital, De Pintelaan 185, 1P1, B-9000 Ghent, Belgium
³Long Island Jewish Hospital, 430 Lakeville Road, New Hyde Park, New York 11040, USA
⁴Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behaviour Centre for Neuroscience, Department of Otorhinolaryngology, Head and Neck Surgery, Philips van Leijdenlaan 15, 6525 EX Nijmegen, The Netherlands

16:50 Electrophysiological Measurement of Pitch Perception in Cochlear Implant (CI) users
Luise Wagner, Stefan Plontke, Torsten Rahne
University Hospital Halle (Saale), Department of Otorhinolaryngology, Halle Hearing and Implant Center, Halle (Saale), Germany

17:00 Cortical Auditory Evoked Potentials in CI users
Madalina Georgescu, Magdalena Cernea
Institute of Phono-Audiology and E.N.T. Functional Surgery, OTOMED Medical Center, Romania
17:10 **Measuring benefits from transformation of lost segregation cues in hearing devices with Acoustical Change Complex**
Marianna Vatti\(^1\), Niels Henrik Pontoppidan\(^1\), Filip Marchman Rønne\(^1\), Abin Kuruvilla Mathew\(^2\), Suzanne Purdue\(^2\)
\(^1\)Eriksholm Research Centre, Oticon A/S, Denmark
\(^2\)School of Psychology, University of Auckland, New Zealand

17:20 **The time course of top-down processing during speech perception by normal hearing and CI users**
Anita Wagner\(^1,2\), Deniz Başkent\(^1,2\)
\(^1\)University of Groningen, University Medical Centre Groningen Department of Otorhinolaryngology/Head and Neck Surgery Groningen, The Netherlands
\(^2\)Graduate School of Medical Sciences, School of Behavioral and Cognitive Neuroscience, University of Groningen

17:25 **Electrically evoked auditory brainstem responses and acoustic change complexes in adolescents with sequential bilateral cochlear implants**
B.M.D. Vonck\(^1\), M.J.W. Lammers\(^1\), G.J.J. Ramakers\(^1\), G.A. van Zanten\(^1\), H. Versnel\(^1\), W. Groolan\(^1\)
\(^1\)Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht

17:30 **Determining free field detection thresholds in cochlear implant users using a clinical single-channel cortical auditory evoked potential recording device**
Bram Van Dun\(^1,2\), Nicky Chong-White\(^1,2\), Robert Cowan\(^1,3\)
\(^1\)The HEARing Cooperative Research Centre, Melbourne
\(^2\)The National Acoustic Laboratories, Sydney
\(^3\)The University of Melbourne, Melbourne

17:35 **Cochlear implant in prelingually deafened adolescents: road blocks**
Chandrakant Vishwakarma\(^1\), Rupali Mathur\(^1\), Dr. Rajesh Vishwakarma\(^2\)
\(^1\)Audiologist & Speech Language Pathologist at Shabda-Brahma Speech & Hearing Clinic, Ahmedabad, INDIA
\(^2\)Prof & Head of E.N.T at B.J. Medical College & Civil Hospital, Ahmedabad

17:40 **Decoding Speech Sound Source Direction from Electroencephalography Data using Cochlear Implant VoCoder Simulations**
W. Nogueira\(^1\), I. Schieholz\(^2\), C. Kantzke\(^2\)
\(^1\)Hearing4all, Dept. of Otolaryngology, Hannover Medical University, Hannover, Germany
\(^2\)Hearing4all, Dept. of Neurology, Hannover Medical University, Hannover, Germany

17:45 **Early hearing loss diagnosis based on consanguineous marriages and methods of rehabilitation of patients**
D.I. Kholmatov, T.R. Halimova
Department of Otorhinolaryngology, Avicenna Tajik State Medical University, Tajikistan
17:50 Measurement of Residual Cochlear Physiology Using Electrocochleography: Correlations with Speech Perception Outcomes in Adults and Children
Douglas C Fitzpatrick1, Tatyana Fontenot1, Margaret Dillon1, Meredith Anderson1, Holly Teagle1, Lisa Park1, Oliver F Adunka2, Craig A Buchman3, Harold C. Pillsbury1, Kevin Brown1
1Dept. of Otolaryngology and Head and Neck Surgery, University of North Carolina, Chapel Hill NC, 27514 USA
2Dept. of Otolaryngology-Head and Neck Surgery, The Ohio State University, Columbus OH, 43212 USA
3Dept. of Otolaryngology-Head and Neck Surgery, Washington University School of Medicine, St. Louis, MO 63110 USA

17:55 Use of aided cortical assessment to track auditory maturation of objectively programmed, paediatric, cochlear implant users
Julie Kosaner1, Ozgur Yigit2, Muammer Gultekin1, Svetlana Bayguzina1
1Meders speech and Hearing Clinic, Kadıkoy, İstanbul, Turkey
2Istanbul Training and Research Hospital, Samatya, İstanbul, Turkey

18:00 Speech performance of Greek children with intellectual disability after successful cochlear implantation
Kyriafinis G2, Geramas I1, Tsaligopoulos M.M2, Maragoudakis P.1, Nikolopoulos T.1
12nd Academic ENT Department, Athens University of Thessaloniki, Attikon Hospital, Athens, Greece
21st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

18:05 Comparing the development of linguistic abilities between children using cochlear implants with those using hearing aids.
Kyriafinis G2, Stagiopoulos P.1, Aidona S.2, Vital V.2, Tsaligopoulos M.2
1School Adviser for Primary Education at Department of Education, Central Macedonia, Greece
21st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

18:10 Benefits of unilateral cochlear implantation on Quality of Life of children and adults
Kyriafinis G., Aidona S., Stagiopoulos P., Vital V., Tsaligopoulos M.
1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

18:15 A simple stethoscope for cochlear implants users
Kyriafinis G., Stavrakas M., Tsaligopoulos M.
1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

20:00 OPTIONAL SOCIAL PROGRAMS
Friday, June 17

Session A

08:00  INDUSTRY SYMPOSIUM

09:00  KEYNOTE SPEAKER 4.

Imaging bilateral developmental plasticity: evidence from children with bilateral cochlear implants, bimodal devices, and normal hearing
Gordon, K.A., Polenenko, M., Easwar, V., Yamazaki, H., Papsin, B.C.

09:25 - 10:30  EXAMINATION OF THE CORTICAL FUNCTION II.

(Structured section III. E)

09:25  Artifact or entrainment? Coherence between brain activity and speech in EEG recordings with cochlear implant users
Anita Wagner 1,2, Natasha Maurits 2,3, Deniz Başkent 1,2
1University of Groningen, University Medical Centre Groningen Department of Otorhinolaryngology/Head and Neck Surgery Groningen, The Netherlands
2Graduate School of Medical Sciences, School of Behavioral and Cognitive Neuroscience, University of Groningen
3University of Groningen, University Medical Centre Groningen Department of Neurology, Groningen, The Netherlands

09:35  Cortical auditory evoked potentials in patients with cochlear implants
George Tavartkiladze, Vigen Bakhshinyan, Tatiana Chugunova, Marina Goykyburg, Bram Van Dun
1National Research Centre for Audiology and Hearing Rehabilitation, Moscow, Russia
2National Acoustical Laboratories, Sydney, Australia
3The HEARing CRC, Melbourne, Australia

09:45  Speech intelligibility and verbal abilities in cochlear implant users – what we can learn from objective measures
Mareike Finke 1,2, Pascale Sandmann 1,4,5, Hanna Böni 2, Esther Ruijendijk 1,3, Andreas Büchner 1,2
1Cluster of Excellence "Hearing4all"
2Department of Otolaryngology, Hannover Medical School, Germany
3Department of Dutch, University of Oldenburg, Germany
4Department of Neurology, Hannover Medical School, Germany
5Department of Otorhinolaryngology, University of Cologne, Germany

09:55  The acoustic change complex as an objective measure of electrode discrimination in adult cochlear implant users
R.G. Mathew 1, J. Undurraga 1,2, G. Li 1, P. Boyle 3, D.Vickers 1
1UCL Ear Institute, 332 Grays Inn Road, London, WC1X 8EE, UK
2Department of Linguistics, The Australian Hearing Hub, 16 University Avenue, Macquarie University, NSW 2109, Australia
3Advanced Bionics GmbH, European Research Centre, Feodor-Lynen Str. 35, 30625 Hannover, Germany

10:05  Comparison of BAHA sound processors with cortical evoked responses
József Géza Kiss, Ferenc Tóth, Orsolya Beöthy-Fehér, János Jarabin, Vera Matievics, Ádám Perényi, József Jóri, László Rovó
Department of Otorhinolaryngology and Head-Neck Surgery, University of Szeged, Hungary
10:15 Assessing spatial hearing by utilizing the mismatch negativity response
Katharina Vogt¹, Anja Roye¹ Luuk van de Rijt², Andy J Beynon²,³, Marc M van Wanrooij¹, Martijn JH Agterberg¹, Ad Snik²
¹Department of Biophysics, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, The Netherlands
²Hearing & Implants, Donders Institute for Brain, Cognition and Behaviour, Centre for Neuroscience Radboud University Medical Centre, Nijmegen, The Netherlands
³Vestibular & Auditory EP Lab, Dept Otorhinolaryngology, Radboud University Medical Centre, Nijmegen

10:30 BREAK

11:00 - 12:00 EXAMINATION OF THE CORTICAL FUNCTION III.
(Free paper section III. F)

11:00 Objective assessment of stream segregation abilities of CI users as a function of electrode separation
Andreu Paredes Gallardo, Sara Madsen, Torsten Dau and Jeremy Marozeau
Hearing Systems group, Department of Electrical Engineering, Technical University of Denmark, DK-2800, Kgs. Lyngby, Denmark

11:10 Can you hear the difference? EEG-Based Single-Trial Deviant Detection in Cochlear Implant Users
Martin Billinger¹,², Mareike Finke¹,², Andreas Büchner¹,²
¹Cluster of Excellence “Hearing4all”, Hannover, Germany
²Department of Otolaryngology, Hannover Medical School, Hannover, Germany

11:20 Representation of spatial cues processed with fine structure coding versus continuous interleaved sampling in cochlear implant users
Torsten Rahne, Nico Heidekrüger, Stefan Plontke, Luise Wagner
University Hospital Halle (Saale), Dept. of Otorhinolaryngology, Martin-Luther-University, Halle (Saale), Germany

11:30 Cortical evoked responses in patients with bilateral cochlear implants
Ferenc Tóth, Balázs Dimák, János Jarabin, Vera Matievičs, Adám Perényi, József Jóri, László Rovó, József Géza Kiss
Department of Otorhinolaryngology and Head-Neck Surgery, University of Szeged, Hungary

11:40 Cortical neural manifestations of binaural processing in children using a cochlear implant and a contralateral hearing aid and in children using bilateral hearing aids
Henkin Yaël¹,², Yaar-Soffer Yifat¹,², Katz-Abitbul Rinat¹,³, LesiriRavid¹, Hildesheimer Minka¹,², Kaplan-Neeman Ricky¹,²,³
¹Department of Communication Disorders, Sackler Faculty of Medicine, Tel-Aviv University, Tel Aviv
²Hearing, Speech, and Language Center, Sheba Medical Center, Tel Hashomer
³Shema Koleno, Jerusalem, Israel

11:50 Developing a new objective measure to quantify listening effort in cochlear implant users: a pilot study
H. Willis, S. Rosen, D. Vickers
University College London

12:00 LUNCH

13:00 INDUSTRY SYMPOSIUM

14:00 KEYNOTE SPEAKER 5.
Objective measures for device fitting and coding strategy optimization
Norbert Dillier, Wai Kong Lai
Laboratory of Experimental Audiology, ENT Department, University Hospital, Zurich, Switzerland

14:25 - 15:40 FITTING I. (Structured section IV. G)

14:25 Use of electrically elicited auditory brain stem responses, electrically elicited stapedial reflex thresholds and aided cortical assessment in programming of 2 paediatric auditory brainstem implant users
Julie Kosaner¹, Yildirim Bayazit², Ayca Ciprut³, Svetlana Bayguzina¹, Muammer Gultekin¹, Kerem Gonullu¹
¹Meders Hearing and Speech Center, Istanbul, Turkey
²Department of Otolaryngology, Faculty of Medicine, Medipol University, Istanbul, Turkey
³Marmara Univ. Hosp., Istanbul, Turkey

14:35 Recovery characteristics for ECAP measurement utilizing short pulse intervals
M. Hey¹; H. Hessel²; J. Müller-Deile³; M. Killian¹
¹ENT Clinic, UKSH Kiel, Germany
²CochlearDeutschland GmbH & Co. KG
³Audiology Consultant Kiel, Germany

14:45 Correlation between psychometric data and threshold obtained from auditory response telemetry
S. Hoth¹, P. Spitzer², M. Praetorius¹
¹Univ.-HNO-Klinik Heidelberg, Germany
²MED-EL Company Innsbruck, Austria

14:55 Clinical validation of a personalized model of the electrically stimulated auditory nerve
W. Nogueira¹, A. Büchner¹, I. Akhoun³, C. Frohne-Büchner³, G. Ashida²
¹Hearing4all, Dept. of Otolaryngology, Hannover Medical University, Hannover, Germany,
²Hearing4all, Dept. of Neuroscience, University of Oldenburg, Germany,
³Advanced Bionics European Research Center, Hannover, Germany,

15:05 An advanced method to determine C-levels via Stapedius reflex measurements
Sandro Burdo

15:15 Comparison of cochlear implant fitting procedures - Preliminary results of a multicenter study
J. Müller-Deile¹, A. Mewes², A. Büchner³, N. Dillier⁴, N. Neben⁵, F. Junge⁴, M. Hey²
¹Audiology consultant, Kiel
²Cochlear Implant Centrum Schleswig-Kiel, Kiel
³ENT Clinic, Medizinische Hochschule Hannover, Hannover
⁴Experimental Audiology, UniversitätsSpital Zürich, Zürich
⁵Cochlear Deutschland GmbH & Co. KG, Hannover

15:25 Pilot study with a new Electrode Voltage Telemetry tool for the Nucleus cochlear implant
M. Leblans¹, A. De Bolster², A. Plasmans², F. Vanpoucke², A. Zarowski¹
¹ENT Department, Sint-Augustinus Antwerp, European Institute For ORL, Belgium
²Cochlear Technology Center, Mechelen, Belgium

15:40 BREAK
16:00 - 18:10 FITTING II.

(Free paper section IV. H)

16:00 The underlying mechanism of preventing facial nerve stimulation by triphasic pulse stimulation in cochlear implant users assessed with objective measure.
Andreas Bahmer1, Uwe Baumann2
1University of Würzburg, Clinic for Otolaryngology, Comprehensive Hearing Center, Würzburg
2University of Frankfurt Main, Clinic for Otolaryngology, Audiological Acoustics, Frankfurt

16:10 Electrically-evoked Compound Action Potentials Recorded Intra- or Post-Operatively in Adult Cochlear Implant Users: Correlations with Demographics, Performances and Estimation of Most Comfortable Level
CA Joly1, H. Thai-Van2, V. Péan3, E. Truy1
1Neuroscience Research Center of Lyon - Impact Team, CRNS - France;
2Edouard Herriot Hospital - Cochlear Implant Fitting Center
3Neuroscience Research Center of Lyon - Waking Team, CRNS - France;
Edouard Herriot Hospital - Audiology and Orofacial exploration
3Vibrant Med-El Hearing Technology - France

16:20 Use of Electrically Evoked Compound Action Potentials for Cochlear Implant fitting, a Systematic Review
J.J. Briaire1, J.J. de Vos1, J.D. Biesheuvel1, P.S. Boot1, M.J. van Gendt1, O.M. Dekkers2, J.H.M. Frijns1
1ENT department, Leiden University Medical Center, Leiden, The Netherlands
2Department of Clinical Epidemiology, Leiden University Medical Center, Leiden, The Netherlands

16:30 Electrocochleography using HiRes®90K® Cochlear Implant - A tool for Objective Estimation of Electro-Acoustic Interactions
Kanthaiah Koka, Leonid Litvak
Advanced Bionics Corporation

16:40 Wireless ABR measurements via mini Tek&Vibrant Soundbridge with Device optimized Chirp Stimulus
Mario Cebulla1, Samuel Blanc2, Ute Geiger1, Andreas Radeloff1
1Department of Otorhinolaryngology, Plastic, Aesthetic and Reconstructive Head and Neck Surgery, University of Würzburg, Germany
2MED-EL, Business Unit Vibrant, Innsbruck, Austria

16:50 Can square-wave modulated high-rate pulse trains be used to predict cochlear implant thresholds using eABR?
Olivier Macherey1, Pierre Stahl1, Bastien Intartaglia2, Daniele Schön2, Stéphane Roman2,3
1Laboratoire de Mécanique et d’Acoustique, CNRS UPR7051, Centrale Marseille, Aix-Marseille Univ., Marseille, France
2Institut de Neurosciences des systèmes, Inserm UMR1106, Aix-Marseille Univ., Marseille, France
3Dept. of Pediatric Otolaryngology and Neck Surgery, Aix-Marseille Univ., Marseille, France

17:00 Impedance measures for subject-specific optimization of spatial selectivity
Quentin Mesnildrey1, Olivier Macherey1, Philippe Herzog1, Frédéric Venail2
1Laboratoire de Mécanique et d’Acoustique, Marseille, France
2University Hospital, Gui de Chauliac, Montpellier, France
17:10 Predicting the nature of electrode using objective measures in children with Auditory Brainstem Implant
Rajeswaran, R.¹, Kameswaran, M.²
¹MERF Institute of Speech and Hearing, Chennai, India.
²Madras ENT Research Foundation (P) Ltd, Chennai, India.

17:20 Use of aided cortical assessment in programming of difficult to fit paediatric cochlear implant users
Svetlana Bayguzina, Julie Kosaner, Muammer Gultekin, Laurie Behar, Kerem Gonullu
Meders speech and Hearing Clinic, Kadıkoy, İstanbul, Turkey

17:30 Estimating Coupling Efficiency of VSB Middle Ear Implant System using ABR/ASSR methods
Ute Geiger, Mario Cebulla, Wafaa Shehata-Dieler, Rudolf Hagen, Andreas Radeloff
Department of Otorhinolaryngology, Plastic, Aesthetic and Reconstructive Head and Neck Surgery, University of Würzburg, Germany

17:40 Electrically evoked auditory steady-state responses to multiple sequential electrode stimulation in cochlear implant users
Robin Gransier¹, Michael Hofmann¹, Hanne Deprez¹,², Marc Moonen², Astrid van Wieringen¹, and Jan Wouters¹
¹KU Leuven, ExpORL, Department of Neurosciences, Herestraat 49 bus 721, 3000 Leuven, Belgium
²KU Leuven, STADIUS, Department of Electrical Engineering (ESAT), Kasteelpark Arenberg 10, 3001 Leuven, Belgium

17:50 Recording Auditory Steady State Responses in a patient implanted with the NeurelecDigisonic® SP/Saphyr® SP cochlear implant system
V. Attina¹,², F. Mina¹,², Y. Duroc², E. Veuillet¹,²,³, E. Truy¹,²,⁴, H. Thai-Van¹,²,³
¹Centre de Recherche en Neurosciences de Lyon, Inserm U1028 CNRS UMR5292 France
²Université Claude Bernard Lyon 1, France
³Service d’Audiologie & d’Explorations Orofaciales– Hospices civils de Lyon, France
⁴Service ORL - Hospices civils de Lyon, France

18:00 Objective Fitting in Children
Julie Kosaner
Meders speech and Hearing Clinic, Kadıkoy, İstanbul, Turkey

20:00 CLOSING DINNER
### Session B

**11:00-12:00 ECAP DETECTION II.** (Free paper section III. FF)

11:00 **Assessing the Firing Properties of the Electrically Stimulated Auditory Nerve Using a Convolution Model**
Huub Versnel  
*Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht, Utrecht, the Netherlands*

11:10 **The effect of preoperative steroids on ECAP and CI electrode impedance**
Jafri Kuthubutheen  
*Otology and Skull Base Surgery, Fiona Stanley Hospital, Perth, Western Australia*  
*Otology and Skull Base Surgery, Royal Perth Hospital, Perth, Western Australia*  
*Otology and Skull Base Surgery, Princess Margaret Hospital for Children, Perth, Western Australia*

11:20 **Long term evaluation of ECAP responses in the FLEX 28 dexamethasone eluting electrode in non-human primates**
Manuel Manrique

11:30 **ART study**
Sebastian Hoth  
*Univ.-HNO-Klinik Heidelberg, Germany*

11:40 **Are spread of excitation and neural response refractory time influenced by electrode array type?**
Maria Valéria Schmidt Goffi-Gomez; Ana Tereza Magalhães; Robinson Koji Tsuji; Rubens Vuono de Brito Neto; Ricardo Ferreira Bento  
*Hospital das Clínicas da Faculdade de Medicina da Universidade de São Paulo, Brazil*

11:50 **Modelling the physiology of Spiral Ganglion Neuron electro-stimulation**
Matthieu Recugnat¹, Jaime Undurraga¹, David McAlpine¹  
*Macquarie University, Sydney, NSW, Australia*

12:00 **LUNCH**

13:00 **BREAK**

### 16:00 - 17:15 POSTER SECTION
(Free paper section IV. HH)

16:00 **Quantification of the effect of physiological condition on the sound transmission via the malleus-incus complex**
Christof Röösli¹, Ivo Dovrev¹, Sebastian Ihrle², Rahel Gerig¹, Albrecht Eiber², Alexander M Huber¹, Jae Hoon Sim¹  
¹*University Hospital Zurich, University of Zurich, Zurich, Switzerland*  
²*University of Stuttgart, Stuttgart, Germany*

16:05 **Experiences with the NRT-ratio in slim straight Nucleus electrodes - a Multi-Center Study**
P. Mittmann, A. Ernst, G. Rademacher, S. Mutze, S. Lang, D. Arweiler-Harbeck, F. Christov, I. Todt  
*Department of Otolaryngology, Head and Neck Surgery, Unfallkrankenhaus Berlin, Germany*
16:10 Revision surgery in cochlear implant patients with electrode migration  
P. Mittmann, A. Ernst, I. Todt  
Department of Otolaryngology, Head and Neck Surgery, Unfallkrankenhaus Berlin, Germany

16:15 Across-channel variability assessed with electrically evoked auditory steady-state responses in adult cochlear implant users  
Robin Gransier, Robert Luke, Astrid van Wieringen, Jan Wouters  
KU Leuven, ExpORL, Department of Neurosciences, Herestraat 49 bus 721, 3000 Leuven, Belgium

16:20 Epidural Recordings in Cochlear Implant Users  
S. Haumann, G. Bauernfeind, M. Bleichner, M. Teschner, S. Debener, T. Lenarz  
1ENT Department, Medical School Hannover  
2Neuropsychology, Carl-von-Ossietzky-University of Oldenburg  
3Cluster of Excellence Hearing4All

16:25 Physiological and Psychometric Characterization of Ipsilateral Masking between Acoustic and Electric Stimulation through Cochlear Implants  
Waldo Nogueira, Benjamin Krüger, Kanthaiah Koka, Andreas Büchner  
1Medical University Hannover, Cluster of Excellence “Hearing4All”, Hannover, Germany  
2Advanced Bionics, LLC, Research & Technology, Valencia, CA USA

16:30 Investigation of the sheep middle ear transfer function and intracochlear pressure  
Pfiffner F, Péus D; Dobrev I; Prochazka L; Thoele K; Sim JH; Gering R; Dalbert A; Harris F; Walraevens J; Röösi C; Huber AM  
University Hospital Zurich, University of Zurich, Zurich, Switzerland

16:35 A comparison of EABR and NRI recordings in CI users  
George Tavartkiladze, Idrick Akhoun, Patrick Boyle, Vigen Bakhshinyan, Tatiana Chugunova, Oleg Belov  
1National Research Center for Audiology and Hearing Rehabilitation, Moscow, Russia  
2Advanced Bionics European Research Centre, Hanover, Germany

16:40 Age-related and noise-induced hearing loss in Bhmt null mice: electrophysiological, histological and gene expression longitudinal analysis  
Giacomo Mandruzzato, Silvia Murillo-Cuesta, Lourdes Rodríguez de la Rosa, Néstor Vallecillo, María Angeles Pajares, Steven Zeisel, Isabel Varela-Nieto  
1Research and Development, MED-EL GmbH, Innsbruck Austria  
2Institute for Biomedical Research “Alberto Sols” CSIC-UAM. Madrid, Spain  
3Centre for Biomedical Network Research on Rare Diseases (CIBERER). Institute of Health Carlos III (ISCIII). Madrid, Spain  
4Hospital La Paz Institute for Health Research (IdiPAZ). Madrid, Spain  
5Department of Nutrition, School of Public Health, University of North Carolina, Chapel Hill, North Carolina, USA.

16:45 Effect of different cochlea electrode types and postinsertional factors on the intracochlear pressure  
I Todt, M. Mittmann, A. Ernst, P. Mittmann  
Department of Otolaryngology, Head and Neck Surgery, Unfallkrankenhaus Berlin, Germany
16:50  Evaluation of the current distribution of the hybrid common ground stimulation in cochlear implants
Kai Dang¹ ², Pierre Stahl³, Clair Vandersteen³, Nicolas Guevara³, Dan Gnansia³, Maureen Clerc¹
¹ATHENA Project Team, INRIA Sophia Antipolis-Mediterranée Research Centre, Sophia Antipolis, France
²Oticon Medical CI Scientific Research, Vallauris, France
³Head and Neck Surgery University Institute, Nice University Hospital, Nice, France

16:55  An Objective estimation of air-bone-gap in Cochlear Implant Recipients with Residual hearing using Electrocochleography
Kanthaiah Koka¹, Joseph Attias¹ ², Aniket Saoji¹, Leonid Litvak¹
¹Advanced Bionics Corporation
²University of Haifa, Israel

17:00  Bimodal processing with AEP recordings, part I: evidence from the Auditory Brainstem Response
Van Yper L.N.¹ ², Dhooge I.J.M.¹ ², Vermeire K.³, De Vel E.F.J.², Beynon A.J.⁴
¹Department of Otorhinolaryngology, Ghent University, De Pintelaan 185, 1P1, B-9000 Ghent, Belgium
²Department of Otorhinolaryngology, Ghent University Hospital, De Pintelaan 185, 1P1, B-9000 Ghent, Belgium
³Long Island Jewish Hospital, 430 Lakeville Road, New Hyde Park, New York 11040, USA
⁴Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behaviour Centre for Neuroscience, Department of Otorhinolaryngology, Head and Neck Surgery, Philips van Leijdenlaan 15, 6525 EX Nijmegen, The Netherlands

17:05  Influence of Stimulation Intensity on Firing Properties of ECAP response assessed using a Fine-Grain Recording Paradigm and Convolution Model
Lutz Gärtner¹, Andreas Büchner¹, Thomas Lenarz¹, Stefan B. Strahl², Konrad E. Schwarz²
¹Hannover Medical School, Department Of Otolaryngology, Hannover, Germany
²R&D MED-EL GmbH, Innsbruck, Austria

17:10  First experience with the Cochlear CI532 Slim Modiolar electrode array and comparison to the Contour Advance in terms of electrode placement, objective measures and programming levels
Ralf Greisiger¹, Marie Bunne¹, Greg Eigner Jablonski¹
¹Department of Otolaryngology, Oslo University Hospital, Norway

20:00  CLOSING DINNER
Saturday, June 18

Session A

08:00  INDUSTRY SYMPOSIUM

09:00  KEYNOTE SPEAKER 6.
Temporary Neurotrophin Treatment Prevents Deafness-Induced Auditory Nerve Degeneration and Preserves Function
Dyan Ramekers
1Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht, Utrecht, the Netherlands;
2Brain Center Rudolf Magnus, Utrecht, the Netherlands;

09:25 - 10:10 DATA LOGING
(Structured section V. I)

09:25  The benefit of the DATA-Logging Function with modern CI processors
Andreas Brüchner

09:35  Objective assessment of CP910/CP920 sound processor usage for SSD CI recipients via datalogging
T. Wesarg, S. Brenne, A. Aschendorff, R. Laszig, S. Arndt
Department of Oto-Rhino-Laryngology, Medical Center - University of Freiburg, Germany

09:45  The need and feasibility of capturing datalogs at higher granularity
Saji Maruthurkkara
Cochlear Ltd, Sydney Australia

09:55  Coaching with Data Logging: empowering approach to clinical conversations with recipients and parents using hearing implant DATA Logging
Eulalia Juan (1,2), Clare Sheridan (1)

10:10  BREAK

10:40  KEYNOTE SPEAKER 7.
Simultaneous Recording of ECAPs and EABRs using the Advanced Bionics RspOM\textsuperscript{TM} and the Echodia Elios\textsuperscript{TM} system
Thierry Van-den-Abbeele\textsuperscript{1}, Idrick Akhoun\textsuperscript{2}, Florian Sadreux\textsuperscript{3}, Alexandre Gault\textsuperscript{3}, Thierry Hassoun\textsuperscript{4}

11:05-13:20  OUTCOMES AND PROBLEMS
(Free paper section V. J)

11:05  Vestibular assessment in CI: high-frequency head impulse recordings supersedes caloric irrigation?18
Andy J. Beynon
Radboud University Medical Centre, Donders Institute for Brain, Cognition and Behaviour Centre for Neuroscience, Department of Otorhinolaryngology, Head and Neck Surgery, Philips van Leidenlaan 15, 6525 EX Nijmegen, The Netherlands

11:15  The effect of cochlear implantation on tinnitus in adults with single-sided deafness: a systematic review
Aimée van Loo
Zuyd Hogeschool Speech Therapy, Zuyd Hogeschool, the Netherlands Clinical Health Sciences, Faculty of Medicine, University Utrecht, the Netherlands
11:25 Improvement in nerve synchronisation with electrical stimulation over time in patients with auditory nerve anomalies
Neevita Narayan¹, Prabhash Kumar², Ameet Kishore³
¹SpHear Speech & Hearing Clinic, New Delhi, India
²Indraprastha Apollo Hospital, New Delhi, India

11:35 Tone decay in cochlear implant recipients
R.H.M. van Eijl¹, J.W. Wasmann¹,², H. Versnel¹, G.A. van Zanten¹
¹Department of Otorhinolaryngology and Head & Neck Surgery, University Medical Center Utrecht, Utrecht, the Netherlands
²Department of Otorhinolaryngology, Head, and Neck Surgery, Radboud University Medical Center, Nijmegen, the Netherlands

11:45 Speech perception testing without the sound booth
Saji Maruthurkkara
Cochlear Ltd, Sydney Australia

11:55 Spatial Hearing by EAS-CI and Bilateral CI users
Sebastián Ausili¹, Martijn Agterberg², Stefan Brill², Emmanuel Mylanus², John van Opstal¹
¹Department of Biophysics, Donders Institute of Neuroscience, Radboud University Nijmegen
²Department of Otorhinolaryngology Head and Neck surgery, Radboudumc

12:05 ‘Power stapes’: surgical solution for moderate or severe mixed hearing loss with stapes fixation – first experiences at the Department of Otorhinolaryngology, University of Pécs
Tamás Tóth, András Burián, Imre Gerlinger
Department of Otorhinolaryngology, University of Pécs, Hungary

12:15 Spatial Hearing in EAS L19isteners
Snandan Sharma¹, Lucas H.M. Mens², Marc M. van Wanrooij³, Ad F.M. Snik², A. John van Opstal¹
¹Dept. of Biophysics, Radboud University, Donders Institute of Brain Cognition and Behaviour, Nijmegen, The Netherlands.
²Dept. of Otorhinolaryngology, RadboudUMC, Nijmegen, The Netherlands.

12:25 Objective functional peri-implant vascular analysis in Baha implantees
János Jarabin¹, Zsófia Bere¹, Ádám Perényi¹, Petra Hartmann², Ferenc Tóth¹, László Rovó¹, József Géza Kiss¹
¹Department of Otorhinolaryngology and Head-Neck Surgery, University of Szeged, Hungary
²Institute of Surgical Research, University of Szeged, Hungary

12:35 Objective vestibular assessment following cochlear implantation
János Jarabin, Ádám Perényi, Edit Kollár, László Rovó, József Géza Kiss
Department of Otorhinolaryngology and Head-Neck Surgery, University of Szeged, Hungary

12:45 Objective estimation of the bone conduction hearing threshold
Vera Matievics, Ferenc Tóth, Linda Szabó, Balázs Dimák, János Jarabin, Ádám Perényi, József Jóri, László Rovó, József Géza Kiss
Department of Otorhinolaryngology and Head-Neck Surgery, University of Szeged, Hungary
12:55  The use of medical image reconstruction in the preparation of the surgery of the ear – sparing the facial nerve  
Attila Nagy\textsuperscript{1,2}, Ádám Perényi\textsuperscript{1}, Ferenc Tóth\textsuperscript{1}, László Rovó\textsuperscript{1}, József Géza Kiss\textsuperscript{1}  
\textsuperscript{1}Department of Oto-Rhino-Laryngology and Head-, Neck Surgery, University of Szeged, Szeged, Hungary,  
\textsuperscript{2}Department of Medical Physics and Medical Informatics, University of Szeged, Szeged, Hungary  

13:05  Importance of intraoperative objective measurements and the CI422, CI522 and CI512 implants  
Ádám Enreiter\textsuperscript{1}, Gábor Répássy\textsuperscript{1}, Marianna Küstel\textsuperscript{1}, Ferenc Tóth\textsuperscript{2}, László Tamás\textsuperscript{1}  
\textsuperscript{1}Semmelweis University, Department of Otorhinolaryngology, Head and Neck Surgery, Budapest, Hungary  
\textsuperscript{2}University of Szeged, Department of Otolaryngology, Head and Neck Surgery, Szeged, Hungary  

13:30  CLOSING AND AWARD CEREMONY