program

SEPTEMBER 19-22, 2012
MÖVENPICK CONFERENCE CENTER
AMSTERDAM

7TH INTERNATIONAL SYMPOSIUM

on objective measures in auditory implants
welcome to OM2012
Dear colleagues,

It is a great pleasure to welcome you to the 7th International Symposium on Objective Measures in Auditory Implants, to be held in Amsterdam from September the 19th to September the 22nd. We are delighted and honored that colleagues and delegates from all over the world will contribute to this symposium.

We express our gratitude for the members of the scientific committee and the local faculty for their assessment of the submitted abstracts. In our endeavour to ensure sufficient time for each presentation and discussion, we hope to have composed a program with an optimal balance in high quality oral presentations as well as posters.

The support we received from you as participants and from the sponsors was indispensible. We like to thank all those who have committed themselves to make this symposium a success. We live in an exciting era, in which developments in medical technology have become/are the pivot in diagnostics in hearing loss, and the support and recreation of the function of our auditory organ. We hope this symposium will fulfill your expectations and inspire you for new research.

It has been our ambition to organize a symposium with a high quality scientific program, appealing to all otologists, audiologists and other professionals engaged in cochlear implantation and the application of other implantable hearing aids. Our focus has been most recent developments in objective measurements, imaging techniques and developments in molecular biology, we all witness in this field.
On behalf of the Departments of Otorhinolaryngology of the Radboud University Nijmegen Medical Centre and the Leiden University Medical Center.

Dr. Emmanuel A.M. Mylanus, MD PhD
University Medical Centre St Radboud
Nijmegen, The Netherlands

Prof. Johan H.M. Frijns, MD PhD
Leiden University Medical Centre
Leiden, The Netherlands

Dr. Andy J. Beynon, PhD
University Medical Centre St Radboud
Nijmegen, The Netherlands

Dr. Jeroen J. Briaire, PhD
Leiden University Medical Centre
Leiden, The Netherlands
OBJECTIVE MEASURES IN AUDITORY IMPLANTS

previous organizers

1999  Nottingham  
Steve Mason & Gerard O’Donoghue

2001  Lyon  
Lionel Collet & Eric Truy

2003  Ann Arbor  
Paul Kileny & Teresa Zwolan

2005  Hannover  
Thomas Lenarz & Rolf-Dieter Battmer

2007  Varese  
Sandro Burdo & Sergio Razza

2010  St Louis  
Jill Firszt & Richard Chole

Organising committee
UMC St Radboud, Nijmegen, The Netherlands  
Emmanuel Mylanus  
Andy Beynon

Leiden UMC, The Netherlands  
Johan Frijns  
Jeroen Briaire

Scientific faculty
Pim van Dijk, UMC Groningen, The Netherlands  
John van Opstal, RU Nijmegen, The Netherlands  
Olivier Macherey, MRC CBU Cambridge, UK  
Berit Verbist, Leiden UMC, The Netherlands  
Jan Wouters, KU Leuven, Belgium  
Bert van Zanten, UMC Utrecht, The Netherlands  
Andrzej Zarowski, St Augustinus, Belgium

Regional faculty
UMC St Radboud, Nijmegen, The Netherlands  
Lucas Mens  
Jef Mulder  
Ad Snik

Leiden UMC, The Netherlands  
Peter Paul Boermans  
Liselotte Rotteveel  
Wim Soede

International Advisory Board
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Paul Kileny (Michigan, US)  
Thomas Lenarz (Hannover, Germany)  
Steve Mason (Nottingham, UK)  
Angel Ramos (Las Palmas de Gran Canaria, Spain)
wednesday september 19th 2012

OPENING REGISTRATION DESK: 9.30

LOCATION: ZURICH I + II

10.30 - 11.45  satellite symposium Cochlear

Chair Norbert Dillier

- Welcome and Introduction
  Richard Brook (Switzerland)
- Where to go with NRT
  Norbert Dillier (Switzerland)
- State of the Art: NRT in clinical practice today
  Joachim Müller-Deile (Germany)
- New approach to intra- and postoperative clinical care
  George Tavartkiladze (Russia)
- From NRT to ICT?
  Andy Beynon (The Netherlands)
- Close
  Richard Brook (Switzerland)

12.00 - 13.30  satellite symposium Neurelec

Chair Andy Beynon

- Welcome and Introduction
  C. Briand (Neurelec, France)
- Neurelec product lines updates
  D. Piana (Neurelec, France)
- Theoretical and measured audiological performance outcomes for bilateral / binaural cochlear implants
  B. Backus (Neurelec, United Kingdom)
- Speech performance and sound localization abilities in Neurelec Digisonic® SP Binaural cochlear implant users
  Dr. N. Verhaert (Leuven, Belgium)
- Surgical and audiological outcomes in Digisonic® SP Binaural users
  Dr. T. Zehlicke (Hamburg, Germany)
- Impact of pulse width on intracochlear electrically evoked auditory brainstem response at different sites
  Dr. N.X. Bonne (Lille, France)
- Introducing the “Smart Start” fast and efficient fitting method for Neurelec cochlear implants
  Dr. G. De Ceulaer (Antwerp, Belgium)

13.30 - 14.00 Lunch – we thank Advanced Bionics and Cochlear for the support of the lunch
14.00 - 15.30  satellite symposium
Advanced Bionics
Chair  Johan Frijns
• Welcome
  Johan Frijns
• AB welcome and update
  Hansjuerg Emch
• Population-based prediction of fitting levels for individual cochlear implant recipients
  Feddo van der Beek, Jeroen Briaire & Johan Frijns
• Insights into the long term effects of electrical stimulation
  Dietmar Basta, Ingo Todt & Arne Ernst
• Latest developments in RSPOM
  Philip Dykmans & Alexandre Gault
• Measurement of the spread of excitation and insights into performance
  Lutz Gärtner, Andreas Büchner & Thomas Lenarz
• The usefulness of various objective metrics to assist in fitting
  Thierry van den Abbeele
• Summary
  Volkmar Hamacher

15.45 - 17.15  satellite symposium Med-El:
‘Spreading the excitation’
Chair  Peter Nopp
• Welcome
  Ingeborg Hochmair
• Introducing the OPUS 2XS
  Gregor Dittrich
• Introducing the Bonebridge
  Severin Fuerhapter
• Experiences with the Bonebridge
  Oliviere Deguine
• HP and Electrodes
  Roland Hessler
• Introducing the MAESTRO 4.1
  Stephanie Dudek, Philippe Spitzer
• Electrically evoked compound action potentials in patients using MED-EL CIs
  Mattheus Vischer
• The Coding of Fine Structure with FineHearing Technology
  Peter Nopp
• Closing words
  Peter Nopp

18.00 - 19.30  Welcome reception at the terrace of 'Muziekgebouw aan ‘t IJ’
thursday september 20th 2012

LOCATION: MAINDECK PTA (PASSENGER TERMINAL AMSTERDAM) AND ZURICH I + II

08.00 Opening of the symposium Maindeck PTA

08.20 - 08.50 keynote speaker: Jay Rubinstein
Past, present and future of objective measures

08.50 - 10.00 plenary session 1
eCAP and cochlear potentials I
location Maindeck PTA
moderators Jill Firszt and Johan Frijns

- Recordings to Acoustic stimuli from the round window in cochlear implant patients – Douglas Fitzpatrick, Chapel Hill (Thu001)
- The effect of transition in pulse shape and polarity on psychoelectric and ECAP responses – Andreas Bahmer, Frankfurt (Thu002)
- A convolutive ECAP Model to assess the firing properties of the auditory nerve – Stefan Strahl, Innsbruck (Thu003)
- Expanded objective measures in Auditory Neuropathy Spectrum Disorder – Christina Runge, Milwauki (Thu004)
- Auditory neuropathy spectrum disorder is a misnomer – William Gibson, Birchgrove (Thu005)

10.00 - 10.30 parallel session 1a
eCAP and cochlear potentials II
location Maindeck PTA
moderators Paul Abbas and Jeroen Briaire

- Time dependent behaviour of the TECAP threshold post reimplantation – Joachim Müller-Deile, Kiel (Thu006)
- Functional and histological characterization of the degenerating auditory nerve in deaf guinea pigs – Dyan Ramekers, Utrecht (Thu007)
- Electrically Evoked Compound Action Potentials in patients supplied with a cochlear implant – Mattheus Vischer, Bern (Thu008)
- Objective measures for vestibular dysfunctions after cochlear implantation – Dietmar Basta, Berlin (Thu009)
- Spread-of-excitation measurements using masker and probe electrodes which are both current steered – Lutz Gärtner, Hannover (Thu010)
- The diagonal elements of the cochlear implant impedance matrix – Randy Kalkman, Leiden (Thu011)

10.30 - 12.00 Coffee break & poster session group 1
10.30 - 12.00  parallel session 1b  Plasticity
location  Zurich I + II
moderators  Andrej Kral and Jos Eggermont

- Simultaneous bilateral cochlear implantation protects auditory pathways in children who are deaf – Karen Gordon, Toronto (Thu012)
- Does assessment of brain visual speech circuits in profound acquired deafness support the hypothesis of latent multimodal connectivity? – Eric Truy, Lyon (Thu013)
- Bilateral reorganization of posterior temporal cortices in post-lingual deaf subjects – Diane Lazard, Paris (Thu014)
- Improved detection of ASSRs with electrical stimuli in cochlear implant users – Michael Hofmann, Leuven (Thu015)
- The Listening Brain – Miriam Geal-Dor, Jerusalem (Thu016)

12.00 - 13.30  Lunch & poster session group 1

13.30 - 14.00  keynote speaker: Andrej Kral  Cell biology and cochlear implants: a happy marriage?

14.00 - 15.30  plenary session 2  Objective evaluations
location  Maindeck PTA
moderators  Carolyn Brown and Andy Beynon

- Comparison of peripheral and central physiological responses in cochlear implant users – Paul Abbas, Iowa City (Thu018)
- Cortical evoked potentials: comparisons between NH listeners, HA and CI users – Carolyn Brown, Iowa (Thu019)
- Intracorporeal Cortical Telemetry (ICT): capturing EEG with a CI – Andy Beynon, Nijmegen (Thu020)
- Electrophysiological and behavioral manifestations of binaural processing in bilateral CI users – Yael Henkin, Tel Aviv (Thu021)
- Obligatory auditory evoked potentials in implanted children with ANSD – Ayca Ciprut, Istanbul (Thu022)
- Cortical Activity in Bilateral Cochlear Implant Users – Katarzyna Ciesla, Warsaw (Thu023)

15.30 - 16.30  Tea break & poster session group 1
parallel session 2a
Binaural/Bilateral

16.30 - 17.30

location
Maindeck PTA

moderators
Ulrich Hoppe and Cas Smits

• PET study of word recognition in binaurally implanted post-lingually deaf patients – *Pascal Barone, Toulouse* (Thu024)
• Objectifying measures with young children who are fitted with bilateral cochlear implants – *Ruth Litovsky, Madison* (Thu025)
• Binaural benefit and cortical effort in bilateral CI and bilateral bimodal CI simulations – *Kristi Buckley, Buffalo* (Thu026)
• Preserving binaural cues for bilateral cochlear implants – *Zachary Smith, Centennial* (Thu027)
• Use of NRT to balance bilateral sequential implants – *Fiona Vickers, London* (Thu028)

parallel session 2b
Miscellaneous

16.30 - 17.30

location
Zurich I + II

moderators
Bert Maat and John van Opstal

• Impedance changes in paediatric cochlear implant re-implantations – *Catherine Birman, Gladesville* (Thu029)
• CI suitability in ANSD: imaging and objective testing in cochlear implant candidacy – *Jane Brew, Sidney* (Thu030)
• Cochlear implantation in children: do the right choice – *Michel Mazzuca, Lyon* (Thu031)
• Cochlear implant mapping through Electrical Cochlear Response (ECR) – *Juan Manuel Cornejo Cruz, Mexico* (Thu032)
• Neural adaptation effects for high rates – *Matthias Hey, Kiel* (Thu033)
17.45 - 18.45 parallel session 3a  
Imaging  
location Maindeck PTA  
moderators Joachim Müller and Berit Verbist

- Preoperative imaging for patient-tailored surgical planning – *Berit Verbist, Leiden and Nijmegen* (Thu034)
- Intraoperative CT scanning and image guided navigation to support cochlear implant surgery – *Klaus Stelter, Munich* (Thu035)
- “Imaging” electrode placement by analysis of the intracochlear electrical potentials – *Filiep Vanpoucke, Mechelen* (Thu036)
- Cone-beam versus multi-slice CT for post-operative imaging after cochlear implantation – *Erik Theunisse, Nijmegen* (Thu037)
- Electrode migration in patients with a cochlear implant – *Kim van der Marel, Leiden* (Thu038)

17.45 - 18.45 parallel session 3b  
Fundamental  
location Zurich I + II  
moderators Olivier Macherey and Sjaak Klis

- Polarity sensitivity of the electrically stimulated human auditory nerve measured at central levels – *Jaime Underraga, Leuven* (Thu039)
- Centrally mediated masking release in electric hearing – *Stefan Zirn, Munich* (Thu040)
- Polyphonic pitch perception in CI. How to minimize the error with direct electrical stimulation – *R. Penningen, Gent* (Thu041)
- 8th nerve correlates of intensity dl and MDT functions of stimulus pulse-rate and amplitude – *Mark White, Cary* (Thu042)
- A dual-task paradigm as an objective measure of listening effort with cochlear implant simulations – *Carina Pals, Groningen* (Thu043)
Friday September 21st 2012

Location: Maindeck PTA (Passenger Terminal Amsterdam) and Zurich I + II

08.00 - 08.30  keynote speaker: John Middlebrooks
               Is there a future for direct neuronal stimulation?
               location Maindeck PTA
moderators

08.30 - 10.00  plenary session 3
               Speech processing
               location Maindeck PTA
moderators Andreas Büchner and Deniz Başkent

10.00 - 10.30  Coffee break and poster session group 2
10.30 - 11.50  parallel session 4a
               Middle ear implants
               location Maindeck PTA
moderators Bob Shannon and Andrzej Zarowski

- The capacity of new auditory implants for sensorineural and conductive hearing loss
  – Ad Snik, Nijmegen (Fri007)
- Preliminary results on ASSR measurements in Codacs patients.
  – Nicolas Verhaert, Leuven (Fri008)
- Effect of round window stimulation on intracochlear pressure for superior canal dehiscence – Marlien Niesten, Eindhoven (Fri009)
- Intra-operative measurement of a Floating Mass Transducer at the round window
  – Jérémie Guignard, Bern (Fri010)
- Can we predict the influence of an ossicular sensor on the mobility of the ossicular chain? – Jean-Marc Gerard, Brussels (Fri011)

- Improved coding strategies based on electrophysiological measurements and models
  – Norbert Dillier, Zürich (Fri001)
- Age-related effects with stimulation pulse rate on speech understanding and CAEPs in CI listeners – Lendra Friesen, Toronto (Fri002)
- Conveying low frequency information through electrical stimulation
  – Waldo Nogueira, Barcelona (Fri003)
- Plasticity and perception in the human brain – investigating speech with functional imaging – Sophie Scott, U.K. (Fri004)
- Spread of excitation in single and dual electrode cochlear implant stimulation
  – Jorien Snel-Bongers, Leiden (Fri005)
- Event-related potential evidence for the perception of emotional prosody through cochlear implants – Andreas Büchner (Fri006)
10.30 - 11.50 parallel session 4b
Implant biology
location Zurich I + II
moderators Stephen O’Leary and Emmanuel Mylanus

- Reduced impedances and fibrous tissue growth using dexamethasone eluting cochlear implants in vivo – Verena Scheper, Hannover (Fri012)
- Hearing measurement during and after cochlear implantation – experimental and human studies – Douglas Fitzpatrick, Chapel Hill (Fri013)
- The peripheral processes of spiral ganglion cells in guinea pigs: deafening and neurotrophic factors – Sjaak Klis, Utrecht (Fri014)
- Systemic is more effective than local administration of dexamethasone for reducing the tissue response to cochlear implantation – Stephan O’Leary, Melbourne (Fri015)

12.00 - 13.30 Lunch & posters session group 2

13.30 - 14.00 keynote speaker: Kevin Green
Functional imaging in the age of cochlear implantation
location Maindeck PTA

14.00 - 15.00 plenary session 4
Functional imaging
location Maindeck PTA
moderators Yael Henkin and Pim van Dijk

- Visual cross-modal reorganization of phonological pathways in post-lingual deaf subjects – Diane Lazard, Paris (Fri017)
- Comparison of resting state activity in individuals with unilateral hearing loss and normal hearing – Jill Firszt, Washington (Fri018)
- New insights on the tonotopy of the human auditory cortex – Pim van Dijk, Groningen (Fri019)
- Electrophysiological signatures of cortical plasticity in cochlear-implant users – Pascale Sandman, Oldenburg (Fri020)
- Functional Near Infrared Spectroscopy: a novel imaging technique for cochlear implants – Paul Kileny, Ann Arbor (Fri021)

15.00 - 15.30 Tea break & poster session group 2
parallel session 5a
Functional imaging

location
Maindeck PTA

moderators
Wai Kong Lai and Robert Stokroos

- Neural correlates of tinnitus improvement by cochlear implant in patients with single-side deafness – J.J. Song, Edegem (Fri022)
- CT-analysis of intrascalar position of cochlear implants: Relation with clinical stimulation levels – Feddo van der Beek, Leiden (Fri023)
- Music perception by normal-hearing and cochlear implant children: a neuroelectrical imaging study – Pasquale Marsella, Rome (Fri024)
- The use of cone beam CT to determine electrode position in human temporal bones – Shakeel Saeed, London (Fri025)
- Automated registration and superimposition of multiple CBCT volumes of the temporal bone – Guido Dees, Maastricht (Fri026)

parallel session 5b
eSRT

location
Zurich I + II

moderators
Kurt Stephan and André Goedegebure

- Postoperative stapedius reflex tests for CI fitting in children with bilateral cochlear implants – Kurt Stephan, Innsbruck (Fri027)
- Fast fitting procedures for CI by electrical stapedius reflex thresholds (ESRT) – Victor Koci, Innsbruck (Fri028)
- Multimodal electrophysiological tests–A guideline to program ‘Difficult to MAP’ cochlear implantees – S. Raghunandhan, Chennai (Fri029)
- Objective registration of stapedial reflex during cochlear implantation by impedance technique – Serge Petrov, St. Petersburg (Fri030)
- A comparison of stapedial muscle activity during measurement of ECAP with two strategies – Madhuri Gore, Bangalore (Fri031)
16.45 - 17.45  parallel session 6a
Diagnostics
location Maindeck PTA
moderators Jan Wouters and Bert van Zanten
- Electrocochleography responses in infants with auditory neuropathy spectrum disorder (ANSD) – Kirsty Gardner-Berry, Rozelle (Fri032)
- Neural diagnostics using psychophysics, CT scans, and electro-anatomical modeling – Christopher Long, Centennial (Fri033)
- Neuropathy of the auditory system due to Infantile Thiamine Deficiency: Eight years of follow-up – Joseph Attias, Haifa (Fri034)
- Stimulus intensity influence on the characteristics of Speech Auditory Brainstem responses – Annie Moulin, Lyon (Fri035)
- Automated measurement of ECAP threshold using Smart-NRI: normative data – Dzemal Gazibegovic, Annaba (Fri036)

16.45 - 17.45  parallel session 6b
Middle ear implants
location Zurich I + II
moderators Thomas Lenarz and Hannes Maier
- Intra-cochlear pressures elicited by forward sound stimulation and reverse round-window stimulation – Hideko Nakajima, Boston (Fri037)
- Functional assessment of implantable hearing device using a Laser Doppler vibrometer – Jae Hoon Sim, Zurich (Fri038)
- Assessment of reconstructed hearing based on measurements – Albrecht Eiber, Stuttgart (Fri039)
- Ear-canal acoustic reflectance monitoring during middle ear implant surgery: a feasibility study – Stéphane Tringali, Pierre Benite (Fri040)

18.15  Departure boats to symposium dinner, at the pier of the Mövenpick hotel
20.15  Start dinner at West-Indisch Huis
keynote speaker: Paddy French
Next generation sensors and actuators in Medicine

Plenary session 5
Objective measures and future technologies

Advances in integrity testing for Nucleus implants – Britta Böhnke, Kiel (Sat001)
Intra-operative techniques for the measurement of residual hearing during cochlear implant surgery – Halit Sanli, New Port (Sat002)
Infrared stimulation of the cochlear nucleus: implications for the ABI – Rohit Verma, Boston (Sat003)
Estimating neural threshold without artefact subtraction from the linearity of the eCAP recording – Robert Morse, Birmingham (Sat004)
An additive instantaneously companding readout system for cochlear implants – Cees Jeroen Bes, Delft (Sat005)
Comparison of ECAP measurements using traditional and novel equipment – George Tavartkiladze, Moscow (Sat006)

Coffee break & poster session group 2
Parallel session 7a
Objective evaluations

Detecting and avoiding cochlear implant artifacts in cortical auditory evoked potential recordings – Bram van Dun, Chatswood (Sat007)
Electrically-Evoked Auditory Change Complex in children with Auditory Neuropathy Spectrum Disorder – Shuman He, Chapel Hill (Sat008)
Application of ASSR for evaluating the hearing preservation in cochlear implantations – Sabine Haumann, Hannover (Sat009)
Cortical processing of changes in music and speech in children with cochlear implants; role of music – Riva Torppa, Helsinki (Sat010)
Cochlear implant artifact cancellation using a high bandwidth high sample rate approach – Myles Mc Laughlin, Irvine (Sat011)
parallel session 7b
Fitting

location Zurich I + II
moderators Waldo Nogueira and Lucas Mens

- ESR, ECAP and MCL: Their relation for charge-based fitting in implants with 31,5 mm electrode – Adam Walkowiak, Warsaw (Sat012)

- Fitting optimization through de-activation of electrodes based on NRI recordings – Elie Zir, Baabda (Sat013)

- Future fitting methods for clinicians with limited cochlear implant experience – Saji Maruthurkkara, Maquarie (Sat014)

- Comparison between objective and subjective methods of the Comfortable Balanced Profile (C-Profile) – Alessandra D’Elia, Bari (Sat 015)
parallel session 8a
Objective measures in bone conduction

location Maindeck PTA

moderators Paul Van De Heyning and Ad Snik

- A Novel Bone Conduction Implant (BCI) Device – Sabine Reinfeldt, Göteborg (Sat017)
- Clinical utility of Resonance Frequency Analysis (RFA) for bone conduction auditory implants – Mark Flynn, Mölnlycke (Sat018)
- Transcranial attenuation as a measure to predict the outcome of a BCD trial in SSD patients – Jolien Desmet, Antwerp (Sat019)
- Mechanical measurement of frequency response in Baha implants in the live skull – Noriko Nishizawa, Sapporo (Sat020)

parallel session 8b
Robotics, surgery, navigation

location Zurich I + II

moderators Olivier Sterkers and Wilko Grolman

- A self-developed and constructed robot system for cochlear implantation – Marco Caversaccio, Bern (Sat021)
- Measuring insertion forces for CI Implantation in cadaveric human temporal bones – Omid Majdani, Hannover (Sat022)
- Future impact of miniaturized approaches in cochlear implantation – S. Hansen, Düsseldorf (Sat023)
- Mechatronic Electrode Array Insertion: Experimental Results – Yann Nguyen, Paris (Sat024)

13.45 Closing ceremony Objective Measures 2012

location Maindeck PTA

- ANSD 2012 Award
- Poster Award Objective Measures 2012
Mövenpick
floorplan

FUNCTION ROOMS

1 Matterhorn I: exhibition, posters and catering
2 Matterhorn II: exhibition, posters and catering
3 Matterhorn III: exhibition, posters and catering
4 Basel: symposium secretariat OM2012
5 Luzern: hospitality suite Cochlear
6 Geneva: slide preview room
7 Lausanne: hospitality suite Neurelec
8 St. Gallen: hospitality suite Advanced Bionics
9 Winterthur: hospitality suite Med-El
10 Zürich II: satellite symposia and parallel sessions
11 Zürich I: satellite symposia and parallel sessions
12 Foyer I: exhibition, posters and catering
13 Foyer II
14 Atrium Foyer: exhibition, posters and catering
point of stay
Jay Rubinstein

Dr Rubinstein received ScB/ScM degrees in Engineering at Brown University in 1981/83. He received an MD and PhD in Bioengineering at the University of Washington in 1987/88. He completed postdoctoral research training and residency in Otolaryngology in 1994 at the Massachusetts Eye and Ear Infirmary. He completed a Neurotology fellowship at the University of Iowa in 1995 staying as Assistant then Associate Professor of Otolaryngology and Bioengineering. In 2003/04 he was the Boerhaave Professor at Leiden University, the Netherlands. He is currently Virginia Merrill Bloedel Professor of Otolaryngology and Bioengineering and Director, Bloedel Hearing Research Center, University of Washington. He is past-president of the American Auditory Society and President-elect of the Association for Research in Otolaryngology. He is a member of the Collegium Otorhinolaryngologicum as well as a Senior Member of the Institute for Electrical and Electronics Engineers. He has published over 100 peer-reviewed articles in both clinical and basic science journals and has mentored 18 predoctoral and postdoctoral trainees in basic and translational research, as well as providing clinical training to a large number of otolaryngology residents and fellows. His laboratory studies models of, signal processing in and perception with cochlear implants, and is collaborating in the development of a vestibular implant.

with pleasure we present our keynote speakers

Jay Rubinstein
Past, present and future of objective measures
THURSDAY
SEPTEMBER 20th
08.20 - 08.50
Andrej Kral

CV, Prof. Dr. Andrej Kral
Institute of Audioneurotechnology & Dept. of Experimental Otology
Hannover Medical School
Feodor-Lynnen-Str. 35, 30625 Hannover

Education & Appointments:
2009: Professor and Chair of Auditory Neuroscience, Medical University Hannover, Germany
2004: Adjunct Professor of Neuroscience, The University of Texas at Dallas, School of Behavioral and Brain Sciences, USA.
2004-2009: Professor of Neurophysiology, University of Hamburg School of Medicine, Germany
2002: Associate Professor ('Priv.-Doz.'), J.W. Goethe University School of Medicine, Frankfurt am Main, Germany
1998: Ph.D., Comenius University School of Medicine, Bratislava
1993: M.D., Comenius University School of Medicine, Bratislava, summis cum laudibus
1987-1993: School of Medicine, Comenius University, Slovakia

Address: Spitalska 24, SK-811 08 Bratislava, Slovak Republic; Student, human medicine

John Middlebrooks

John C. Middlebrooks joined the faculty of the University of California at Irvine in 2008. There, he is a Professor in the Departments of Otolaryngology – Head and Neck Surgery, Neurobiology & Behavior, Cognitive Sciences, and Biomedical Engineering. He was trained at the California Institute of Technology (B.S., 1976), UC San Francisco (Ph.D., 1982), and Stanford University (post-doc, 1985). Prior to UC Irvine, he has served on the faculties of the University of Florida (1985-1995) and University of Michigan (1995-2008). Dr. Middlebrooks uses neurophysiology and psychophysics to study the brain mechanisms of hearing. His NIH-supported research includes studies of cortical responses to cochlear implant stimulation, studies of cortical mechanisms of spatial hearing, and tests of the feasibility of an auditory nerve implant for auditory prosthesis. A major emphasis in the laboratory currently is to translate an auditory nerve implant toward human application. Dr. Middlebrooks is a Fellow of the Acoustical Society of America and recently has served as Associate Editor for the Journal of the Acoustical Society of America and the Journal of the Association for Research in Otolaryngology. He currently is the President of the Association for Research in Otolaryngology
Kevin Green

Kevin Green is a Consultant ENT Surgeon based in Manchester, UK. His main clinical interests are otology and, in particular, implantation otology. He is experienced in adult and paediatric cochlear implantation, hearing preservation cochlear implant surgery, bone anchored hearing aid surgery and middle ear implant surgery. He has active research interests in these areas and in the use of functional neuroimaging techniques in the investigation of patients prior to and after cochlear implantation. His thesis was on the use of Positron Emission Tomography (PET) in cochlear implant recipients for which he was awarded a MD by the University of Manchester. He has recently completed studies using functional Magnetic Resonance Imaging to investigate cross modal plasticity before cochlear implantation and a PET study of bilateral cochlear implant recipients.

Paddy French

Paddy French received his B.Sc. in mathematics and M.Sc. in electronics from Southampton University, UK, in 1981 and 1982, respectively. In 1986 he obtained his Ph.D., also from Southampton University, which was a study of the piezoresistive effect in polysilicon. After 18 months as a post doc at Delft University, The Netherlands, he moved to Japan in 1988. For 3 years he worked on sensors for automotives at the Central Engineering Laboratories of Nissan Motor Company. He returned to Delft University in May 1991 and is now a staff member of the Laboratory for Electronic Instrumentation. In 1999 he was awarded the Antoni van Leeuwenhoek chair and in June 2002 he became head of the Electronic Instrumentation Laboratory. He is Editor-in-chief of Sensors and Actuators A and General Editor of Sensors and Actuators A&B. His research interests are integrated sensor systems, micromachining, in particular for medical applications.
point of interest
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– Uses the new Vibrogram tool to test thresholds directly through the implant
– Provides fitting tools for the BONEBRIDGE™
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Scott Moulton
bilateral AB recipient (shown above)

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