



13th International Conference on
Cochlear Implants
and Other Implantable Auditory Technologies

Munich, Germany
June 18–21, 2014

Congress Chair
Congress Secretary

Joachim Müller
John-Martin Hempel

Final Program

 www.ci2014muc.com



13TH INTERNATIONAL CONFERENCE ON COCHLEAR IMPLANTS AND OTHER IMPLANTABLE AUDITORY TECHNOLOGIES



Dear Colleagues,

A very warm welcome to Munich!

It is a real honour and great pleasure for us to host the 13th *International Conference on Cochlear Implants and Other Implantable Auditory Technologies* in Munich. The CI 2014 conference will continue the long tradition of the previous international meetings, and focus on a multitude of topics related to cochlear implants and implantable hearing devices. The theme for 2014 is 'cochlear implants around the world'. We hope to give an overview of what is going on in our rapidly growing field.



Recently, our fascinating, interdisciplinary field received widespread public recognition when the Lasker-DeBakey Clinical Medical Research Award was given to Graeme Clark, Ingeborg Hochmair, and Blake Wilson for the development of the modern cochlear implant. We are fortunate that all three Lasker Award winners have agreed to contribute to our program with their keynote sessions. Enriching our scientific program further are keynote sessions on binaural hearing, middle ear mechanics related to hearing implants, and the upcoming vestibular implant. Round table discussions, invited lectures, and the 'Bernstein Sparks Workshop on Modelling Cochlear Implants' (organized by B. Seeber and W. Hemmert) complete our exciting line-up.

Managing the large number of submitted abstracts was a real challenge. We are immensely grateful to the scientific committee, who organized the systematic and anonymous abstract review process. Abstracts were ranked by two or three reviewers, which allowed us to differentiate between poster, talk, and 'snapshot presentation'. The latter is a new format which allows a key message to be presented in a short oral talk, combined with an ePoster containing more detailed information.

Munich, the capital of Bavaria, is one of Germany's most popular destinations and has much to offer: an inspiring mix of historic buildings, museums, arts, sights, churches, and more. Visitors from all over the world love the unique flair of the city. Enjoy the Bavarian hospitality and be inspired! The unique, relaxed, and creative atmosphere of the city provides the perfect backdrop for you to share and exchange knowledge in all fields related to cochlear implants and hearing implant technology.

With eager anticipation we await a meeting that not only addresses the latest developments in all fields of implantable technologies for the restoration of hearing, but also one that fosters interdisciplinary exchange and open discussion between specialists.

We are looking forward to seeing you here in Munich!


Joachim Müller
Congress Chair


John-Martin Hempel
Congress Secretary



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Conference History

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Bernstein Sparks Workshop

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KEYNOTE SPEAKERS

KEYNOTE SESSION 1, THURSDAY, JUNE 19
08:30–10:00, PHILHARMONIE

For the development of the modern cochlear implant: Lasker-DeBaakey Clinical Medical Research Award Winner Session

Professor Dr. Graeme Clark



Graeme Clark led the research that resulted in the first clinically approved multiple-channel cochlear implant, providing speech understanding in profoundly deaf people. His basic research was also crucial in establishing this could be achieved safely, including a minimal risk of meningitis. It thus became the first sensory-neural prosthesis to effectively bring electronic technology into functional relationship with the central nervous system and human consciousness. His research also established that the multiple-channel implant provided effective speech perception and language in profoundly deaf children, and it was thus the first major advance in helping these children communicate in the last 250 years. For his research, Graeme Clark has received numerous national and international awards and honours, including the Prime Minister's Prize for Science and Fellow of the Australian Academy of Science, Fellow of the Royal Society, London, an Honorary Fellow of The Royal Society of Medicine, and an Honorary Fellow of The Royal College of Surgeons. In 2007, he was awarded the Zülch Prize from the Max Planck Society, Germany's highest award in neuroscience, in 2010 he was awarded the Lister Medal, the most prestigious prize in the world for surgical science, and in 2011 the Zotterman medal from Nobel Institute for Neurophysiology, Karolinska Institute, Stockholm, and the CSL Howard Florey medal, Australia's top award in medical science. In 2013 he was a co-recipient of the Lasker-DeBaakey Award for Clinical Medical Research (referred to as the American Nobel).

Professor Dr. Ingeborg Hochmair



Ingeborg J. Hochmair-Desoyer holds a PhD in electrical engineering from the Technical University of Vienna, where she started her career in 1976 as a research assistant. Together with Erwin Hochmair, she developed the very first microelectronic multichannel cochlear implant, implanted in December 1977 in Vienna. After a research stay at the Institute for Electronics in Medicine, Stanford University, USA, and numerous publications and patents, Dr. Hochmair worked as a Consultant for the 3M company, St. Paul, USA, on neuroprostheses. From 1982 to 1989 she worked as a postdoctoral research scientist at the Institute of Applied Physics at the University of Innsbruck, Austria, and earned a *venia legendi* for medical technology at the faculty of Electrical Engineering, Technical University, Vienna, Austria. Since 1990, Dr. Hochmair built up the company MED-EL as CEO and CTO which she had founded together with Dr. Erwin Hochmair. Dr Ingeborg Hochmair is the author or co-author of more than 100 papers and the inventor or co-inventor of over 40 patents. She has been awarded a number of prizes for her scientific achievements, such as the Holzer Award (1979), the Leonardo da Vinci Award (1980) and the Sandoz Award (1984). In 1995, she won the Business Woman of the Year Award (Prix Veuve Clicquot) and, the following year, was awarded the Wilhelm Exner Medal. She was granted honorary doctorates by the faculty of medicine at the Munich University of Technology (2004) and by the Innsbruck University of Medicine (2010). She has been honored as a pioneer of the modern CI by receiving the Lasker-DeBaakey Clinical Medical Research Award 2013 together with Graeme Clark and Blake Wilson.

Professor Blake S. Wilson



Prof. Wilson was initially trained as an electrical engineer but also became a hearing scientist in the ensuing years. He has a BSEE degree from Duke University and a DSc degree from the University of Warwick. He has led or co-led many multidisciplinary teams during the past three decades. He began his career at the Research Triangle Institute (RTI) in the Research Triangle Park (RTP), NC, USA. His positions there included Research Engineer (1974–78); Senior Research Engineer (1978–83); Head of the Neuroscience Program (1983–94); Director of the Center for Auditory Prosthesis Research (1994–2002); and Senior Fellow (2002–07). He with others created the Neuroscience Program and the Center for Auditory Prosthesis Research. After retiring from the RTI, Prof. Wilson continued his positions as an Adjunct Professor in the Department of Surgery at the Duke University Medical Center (DUMC) and as The Overseas Expert for a large project at five centers in Europe funded by the EC and aimed at the remediation of hearing loss. Prof. Wilson is the inventor of many of the speech processing strategies used with the present-day cochlear implants, including the continuous interleaved sampling (CIS), spectral peak picking (e.g., “n-ofm”), and virtual channel strategies, among others. One of his papers, in the journal *Nature*, is the most highly cited publication by far in the specific field of cochlear implants. Prof. Wilson – or he and his teams or colleagues – have received a high number of highly prestigious awards and honors, including for three examples among many the 2013 Lasker-DeBaakey Clinical Medical Research Award, “for the development of the modern cochlear implant” (to Wilson, Graeme M. Clark, and Ingeborg J. Hochmair); the American Otological Society President's Citation in 1997, for “Major contributions to the restoration of hearing in profoundly deaf persons” (to Wilson, Dewey T. Lawson, Charles C. Finley, and Mariangeli Zerbi); and the 1996 Discover Award for Technological Innovation in the category of “sound” (to Wilson). In addition, Prof. Wilson has been the Guest of Honor (GOH) at 13 international conferences and at three national conferences to date.

KEYNOTE SPEAKERS

KEYNOTE SESSION 2, THURSDAY, JUNE 19
10:30–12:30, VORTRAGSSAAL DER BIBLIOTHEK

Middle Ear Implants**Dr.-Ing. Albrecht Eiber**

Academical Director at the Institute of Engineering and Computational Mechanics, University Stuttgart, Germany. Teaching and research: Modeling of dynamical systems (robots, vehicles, mechanisms and machines); Dynamics of Multibody systems; Mechatronical systems; Biomechanics. Since 1989 working in the field Mechanics of Hearing: Description of human middle and inner ear with mathematical models based on mechanical approaches using Multibody- and Finite Element systems techniques; determination of parameters from clinical measurements and from laboratory experiments; extensive use of Laser Doppler Vibrometry; investigations and numerical simulation of dynamical behavior of natural and diseased ears; transfer behavior of reconstructed ears using passive and active mechanical implants in the middle and in the inner ear; development of passive and actively driven implants. Supervising project- and diploma theses and doctoral dissertations. Chair of EUROMECH Colloquium “Biomechanics of Hearing”, Stuttgart 1997 and “4th International Symposium on Middle Ear Mechanics in Research and Otology” in Zurich 2006.

KEYNOTE SESSION 3, FRIDAY, JUNE 20
08:30–10:00, PHILHARMONIE

Binaural Hearing**Professor Dr. Dr. Andrej Kral**

Andrej Kral was born in Bratislava, studied general medicine at the Comenius University (MD 1993). He joined the Institute of Pathological Physiology (1992–95), in collaboration with the Mathematical Institute (Prof. V. Majernik) worked on models of neuronal networks. In 1995, he moved to the Institute of Sensory Physiology, J. W. Goethe University, Frankfurt am Main (Head: Prof. R. Klinke) to focus on cochlear implants. He was appointed associate professor of physiology (“Priv.-Doz.”) at J. W. Goethe University in 2002. In 2004 he moved to Hamburg to become a professor of neurophysiology at the Institute of Neurophysiology, University of Hamburg. In 2009 he was appointed chair and professor of auditory neurophysiology at the Medical University Hanover. He is currently the director of research of the ENT clinics, the director of the Dept. of Experimental Otology and Institute of AudioNeuroTechnology. Since 2004 he has been adjunct professor of neuroscience and cognition at The University of Texas at Dallas, USA. His articles appeared in *New Engl J Med*, *Science*, *Nature Neuroscience*, *Trends Neurosci*, *Brain*, *J Neurosci* and *Cereb Cortex*.

KEYNOTE SPEAKERS

KEYNOTE SESSION 3, FRIDAY, JUNE 20
08:30–10:00, PHILHARMONIE

Binaural Hearing

Professor Dr.-Ing. Dr. Jens Blauert

Photo: W. Köhnen



Jens Blauert studied communication engineering at the RWTH Aachen University, where he received a Doctor-of-Engineering degree in 1969. In 1973, he delivered an inaugural dissertation to the Technical University of Berlin (habilitation), and in 1994

he was awarded an honorary degree (Dr. Tech.) by the University of Aalborg, Denmark. In 1974 he became chair professor at the Ruhr-University of Bochum, where he founded the Institute of Communication Acoustics, IKA, and headed it for 29 years. Subsequently, he was assigned emeritus professor. He has been visiting professor in various countries worldwide. Currently he is active as distinguished visiting professor of Rensselaer Polytechnic Institute, Troy NY, – adjunct to its program on architectural acoustics. He was a professional acoustical consultant for more than 40 years, chartered in the state of North-Rhine Westphalia.

Prof. Blauert is the author/co-author of more than 170 papers and monographs, supervisor of 52 successful PhD projects and has been awarded several patents. He has received numerous reputable scientific medals and awards – recently the EAA award for lifetime achievements in acoustics. His major scientific fields of interest are spatial hearing, binaural technology, aural architecture, perceptual quality, speech technology, virtual environments, telepresence and quality of experience. Currently he is particularly interested in modelling active binaural listening.

He has provided services to the science community in positions such as chairman of the ITG committee on electroacoustics, dean of the Faculty of Electrical Engineering & Information Technologies and senator of the Ruhr-University of Bochum, cofounder and chairman of the board of the European Acoustics Association, EAA, president and vice president of the German Acoustical Society, DEGA, associate board member of the International Commission for Acoustics, ICA, member of the Environmental-Protection Council of the State of North-Rhine Westphalia, cofounder and board member of the European Speech-Communication Association, now ISCA, and cofounder and board member of the section on noise and vibration, NALS, of the German Standard Association, DIN.

Professor Blauert was elected fellow of the Acoustical Society of America, ASA, the Institute of Electrical & Electronic Engineering, IEEE, the Inst. of Acoustics, IoA, and the Audio Engineering Society, AES. He is an honorary member of the German society of audiology, DGA, and the Polish acoustical society, PAS.

Professor Dr. Benedikt Grothe



Benedikt Grothe has studied Biology and Psychology at the Ludwig-Maximilians-Universität München (LMU). He earned his doctor's degree in a study with focus on neurophysiology in 1991. After doing research at the University of Texas

and New York University, he moved back to Germany to work as an assistant and later on as senior assistant at the LMU. In 1996 he qualified as professor in zoology. From 1999–2003 he worked as a senior researcher at the Max Planck Institute for Neurobiology in Martinsried. In 2003 he was appointed to the chair in neurobiology at the LMU. Since 2004 he is director of the neurobiology department and since 2006 spokesman of Munich Center for Neurosciences – Brain and Mind (MCN LMU). He was significantly involved in bringing the Bernstein Center for Computational Neuroscience to Munich. In 2006 he became coordinator of the newly established elite course “Master of Neuroscience” and “Graduate School of Systemic Neuroscience (GSN LMU)”. Since 2007 he belongs to the Bavarian Academy of Science.

Dr. Michael Jan Pecka



Dr. Pecka currently holds the position of a “Akademischer Rat a.Z.” at the LMU, section of Neurobiology (chaired by Prof. Grothe). His research concentrates on neuronal mechanisms of context-dependent processing of sensory information in the auditory

system. Dr. Pecka received a Dr. rer. nat. degree from the LMU (2008), where he worked on mechanisms of synaptic inhibition for temporal processing in the auditory brainstem. During his post-doc with Prof. Mrsic-Flogel at the UCL in London (2009 to 2011), he transitioned to studying context-dependent coding of natural stimuli in the visual cortex, before returning to Munich as a “Wissenschaftlicher Assistent” to Prof. Grothe in 2011. Dr. Pecka has received a Feodor-Lynen Stipend of the Alexander-von-Humboldt Foundation for his post-doctorate work and is currently a member of the “Junge Kolleg” (Young Scholars Program) of the Bavarian Academy of Science.

KEYNOTE SPEAKERS

KEYNOTE SESSION 4, SATURDAY, JUNE 21
08:30–09:30, PHILHARMONIE

Vestibular Implant

Professor Dr. Charles C. Della Santina



Charles C. Della Santina, PhD MD is a Professor of Otolaryngology – Head & Neck Surgery and Biomedical Engineering at the Johns Hopkins University School of Medicine, where he directs the Johns Hopkins Vestibular NeuroEngineering Lab. He received

his PhD in BioEngineering from the University of California at Berkeley, where his work focused on development of silicon devices for interfacing to the auditory/vestibular nerve. Since completing his medical degree at the University of California at San Francisco and residency at Johns Hopkins, he has been a clinician-scientist at Johns Hopkins.

As a practicing surgeon, Dr. Della Santina specializes in treatment of inner ear disorders. His clinical interests include restoration of hearing via cochlear implantation and management of patients who suffer from vestibular disorders. His lab's research centers on development of a multichannel vestibular implant intended to restore inner ear sensation of head movement. In addition to that work, his >80 publications include studies characterizing inner ear physiology and anatomy; developing novel clinical tests of vestibular function; and clarifying the effects of cochlear implantation, superior canal dehiscence syndrome, and intratympanic gentamicin therapy on the vestibular labyrinth. Dr. Della Santina is also the founder and CEO/Chief Scientific Officer of Labyrinth Devices LLC, a company dedicated to bringing novel vestibular testing and implant technology into routine clinical care. His notable honors include the Robert Bárány Society Young Scientist of the Year Award, American Neurotology Society Frank M. Nizer Lectureship, ENTER Foundation Award for Innovation in Otolaryngology and ENT-UK Gordon Smyth Lectureship.

Professor Dr. Robert Stokroos



Robert Stokroos (1967) has been appointed as a full professor of otolaryngology – head and neck surgery at Maastricht University Medical Center (Maastricht, The Netherlands). His clinical focus is on otology and neurotology. He chairs

multidisciplinary teams working on cochlea and auditory brainstem implants and on skull base surgery. His research efforts focus on the development and improvement of sensory substitution and repair devices. Fundamental research tries to elucidate central auditory mechanisms involved in tinnitus generation, and their reaction to the -limited- therapeutic options we have. Applied research led to the first vestibulocochlear implants, placed in 2012, substituting the organs of hearing and balance, and in 2013, to an implantable tinnitus suppressing device.

Dr. Angelica Pérez Fornos



Angélica Pérez Fornos was born in Mexico City, Mexico. She received the M.S. degree in biomedical engineering from the Universidad Iberoamericana, Mexico City, Mexico, and the PhD. degree in neuroscience from the University of Geneva,

Geneva, Switzerland, in 1999 and 2006, respectively. The focus of her research is sensory perception evoked by electrical neuroprostheses (retinal implants, cochlear implants, and vestibular implants). Currently, she is the Scientific Director of the Cochlear Implant Center for French Speaking Switzerland (Centre Romand d'Implants Cochléaires, Geneva, Switzerland). Her main research project investigates the effects of electrical stimulation of vestibular nerve afferents in human subjects and the clinical significance of the rehabilitation that a vestibular implant could provide to patients suffering from a bilateral vestibular loss.

BERNSTEIN SPARKS WORKSHOP



Cochlear implants are to date probably the most successful “spin off” from bridging clinical sciences and neuroscience research on the electrical stimulation of (auditory) neurons. Further advances are expected to come from a detailed understanding of the auditory system where computational models describing the neuronal and perceptual responses to electric stimulation will be used to develop novel algorithms. Due to the multi-disciplinarity of the field these advances will rely on neuroscientists, computational modelers, psychophysicists, engineers and clinicians working together. The Bernstein Sparks Workshop will bring together leading scientists involved in modeling and developing algorithms for auditory implants and we explicitly invite clinicians to join in to raise the mutual awareness of the issues involved in CIs and their implantation. The Bernstein Sparks Workshop on Modelling and Signal Processing for Auditory Implants is organized by Professor Seeber, the Bernstein Center for Computational Neuroscience Munich and the Bernstein Coordination Site.

BERNSTEIN SPARKS WORKSHOP 1, FRIDAY, JUNE 20
10:30–12:30, VORTRAGSSAAL DER BIBLIOTHEK

Peripheral models and their use in developing coding strategies

Professor Dr. Ian C. Bruce



Dr. Ian C. Bruce received the B.E. (electrical and electronic) degree at The University of Melbourne, Melbourne, Australia, in 1991. From 1993–94, he was a research and teaching assistant in the department of bioelectricity and magnetism, Vienna University of Technology, Vienna, Austria. In 1998, he received the PhD degree from the Department of Otolaryngology, The University of Melbourne. Dr. Bruce was a postdoctoral research fellow in the department of biomedical engineering at Johns Hopkins University, Baltimore, MD, from 1998 to 2001. Since 2002, he has been in the department of electrical and computer engineering at McMaster University, Hamilton, ON, Canada, now at the rank of associate professor. Dr. Bruce is a member of the Acoustical Society of America and the Association for Research in Otolaryngology, is a registered professional engineer in Ontario, and is an associate editor of the Journal of the Acoustical Society of America.

Colin Horne, MA



Colin Horne received his degree in computing science from the University of Glasgow in 2009. After graduating, he designed and implemented spatial search algorithms at a start-up company in London. Since 2011, he has been investigating the phenomenological modelling of the electrically stimulated auditory nerve fibres during his PhD. at the MRC Institute of Hearing Research, Nottingham. His research interests include the phenomenological and biophysical modelling of the neuron.

Dipl.-Ing. Tamas Harczos



Tamas Harczos studied information technology at the University of Veszprém in Hungary from 1998 to 2004 and finished with a diploma (master's degree) in computer science. During his thesis, Harczos developed a novel low bit-rate low-complexity speech compression algorithm. After his graduation he worked as Embedded Programmer for the automotive industry before joining the Pázmány Péter Catholic University in Budapest where he studied neurobiology, neurophysiology and cellular-neural-networks. In 2006, Harczos moved to Ilmenau, Germany, and joined the Bio-inspired Computing group (BIC) of the Fraunhofer Institute for Digital Media Technology, IDMT. His responsibilities at BIC include research, development and management in projects related to implantable auditory prostheses and models of the auditory system. He is also a PhD candidate at the Ilmenau University of Technology. His current research interests focus on the use of auditory models in cochlear implants (CI), and the algorithmic aspects of CI speech processors and that of sound source localization with bilateral CI systems.

BERNSTEIN SPARKS WORKSHOP

BERNSTEIN SPARKS WORKSHOP 2, FRIDAY, JUNE 20
13:30–15:00, VORTRAGSSAAL DER BIBLIOTHEK

Peripheral models and their use in developing coding strategies (continued)

Professor Dr. Norbert Dillier



Training as Electrical Engineer, PhD thesis on electrical stimulation of the auditory nerve at the Institute of Biomedical Engineering at the ETH and University of Zurich. Lecturer (1996) and Professor of Experimental Audiology (2002) at the University of Zurich, head of the Laboratory of Experimental Audiology at the ENT Department since 1978. Past president of the German Society of Audiology and former board member of the European Federation of Audiology Societies (EFAS). Main research interests: better understand and improve the function of auditory prostheses such as cochlear implants, auditory brainstem implants as well as conventional and implantable hearing aids. Enhance the speech discrimination performance, especially in noisy environments and improve the sound quality for music perception with these devices. Investigate new methods for programming and speech processor fitting especially for the very young children using objective electrophysiological measurement procedures.

Professor Dr. Jan Wouters

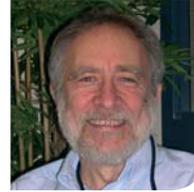


Jan Wouters, born 1960, obtained a Master and PhD in physics from the University of Leuven, KU Leuven, Belgium, in 1982 and 1989, respectively, with intermission for officer military service. From 1989 till 1992 he was a Postdoc Research Fellow with the National Fund for Scientific Research (FWO) at the Institute of Nuclear Physics (UCL Louvain-la-Neuve) and at NASA Goddard Space Flight Center (USA). Since 1993 he is a Professor at the Dept. of Neurosciences of the KU Leuven (Full Professor since 2005) where he teaches 5 physics and audiology courses. His research focuses on audiology, the auditory system and auditory prostheses. He is author of about 240 articles in international peer-reviewed journals, associate editor of 3 international journals, president of the European Federation of Audiology Societies, and president of the Belgian Audiology Society B-Audio.

BERNSTEIN SPARKS WORKSHOP 3, FRIDAY, JUNE 20
15:00–16:30, VORTRAGSSAAL DER BIBLIOTHEK

Binaural hearing with electric stimulation

Professor H. Steven Colburn



Steve Colburn studied Electrical Engineering at the Massachusetts Institute of Technology, where he received his bachelor's, master's, and doctor's degrees in the 1960s and was on the faculty in the 1970s. He is now Professor of Biomedical Engineering at Boston University, where he has taught since 1980. He was the chair of that department through the 1980s. He is currently the Director of the Boston University Hearing Research Center, which promotes collaborative research and teaching across the units of the university. Dr. Colburn's primary research involves the application of signal processing, statistical communication theory, and computational modelling to the study of hearing and hearing impairments. He is particularly interested in the measurement and modelling of binaural hearing performance. Specific current topics include modelling the activity of auditory brainstem neurons and measurement and modelling of spatial attributes of sound perception, speech intelligibility in complex sound environments and the effects of hearing impairments on binaural abilities.

Ken Hancock, PhD



Ken Hancock was born in Waterloo, Iowa in 1969. He received the B.S. (1991) and PhD (2001) degrees in biomedical engineering from Boston University. His doctoral work involved intracellular recording and labelling studies in dorsal cochlear nucleus and computational modelling of dorsal cochlear nucleus neural networks. He had a postdoctoral fellowship at the Eaton-Peabody Laboratories at the Massachusetts Eye & Ear Infirmary during which he studied interaural time difference coding in the inferior colliculus. He remains at the Eaton-Peabody Laboratories as a research associate, splitting his time between studying the neurophysiology of binaural hearing with cochlear implants and developing stimulus generation and data acquisition software.

BERNSTEIN SPARKS WORKSHOP

BERNSTEIN SPARKS WORKSHOP 3, FRIDAY, JUNE 20
15:00–16:30, VORTRAGSSAAL DER BIBLIOTHEK

Binaural hearing with electric stimulation

Professor Dr. Enrique A. Lopez-Poveda



Permanent Contrated Professor of Otorhinolaryngology at the University of Salamanca (Spain). Director of the Auditory Computation and Psychoacoustics Laboratory, Neuroscience Institute of Castilla y León. Director of the "Diploma Specialization in Audiology", University of Salamanca. Director of the Audiology Group, Salamanca Biomedical Research Institute. His research focuses on understanding and modelling human cochlear nonlinear signal processing and the role of the peripheral auditory system in normal and impaired auditory perception. He has been principal investigator in numerous scientific research projects funded by public and private national and international organizations. Has authored over 60 scientific papers and book chapters and has edited two international books on these and related topics. He regularly acts as ad hoc reviewer for international research journals, and as expert evaluator for national and international research funding organizations, including the European Commission. He is a member of the Association for Research in Otolaryngology, the Spanish Acoustical Society, the Spanish Audiology Association, and a Fellow of the Acoustical Society of America. He is Associate Editor of the Journal of the Acoustical Society of America.

BERNSTEIN SPARKS WORKSHOP 4, FRIDAY, JUNE 20
17:00–18:30, VORTRAGSSAAL DER BIBLIOTHEK

Improving speech perception with cochlear implants with model-based approaches

Professor Dr. Waldo Vazquez Nogueira



Waldo Nogueira received the telecommunication engineering degree from the Technical University of Catalonia (UPC) and his PhD degree in electrical engineering from the Leibniz University of Hanover (LUH) in 2003 and 2007 respectively. During his PhD he developed several strategies for cochlear implants; some of them have been commercialized like the MP3000 by Cochlear Ltd. In 2008 he joined the European R&D center of Advanced Bionics and in 2009 he became principal research engineer with emphasis in signal processing at the European center of the same company in Hanover (Germany). In September 2011 he joined the Music Technology Group (MTG) of the Universitat Pompeu Fabra (Spain) where he mainly conducted research on music perception and signal processing for cochlear implants. Since 2013 he leads the Auditory Prosthetic research group at the German Hearing Center of the Medical School Hanover (MHH) within the Hearin4all excellence cluster. His main research interests are related to the modeling of the electrode nerve interface of implantable auditory prosthesis and its application into signal processing methods and sound coding strategies.

Michele Nicoletti, MA



Michele Nicoletti was born in Nuremberg, Germany, in 1974. He received the B.E. (precision & micro engineering) degree at The Munich University of Applied Sciences, Munich, Germany, in 2005. In 2007, he received the Master (biomedical engineering) degree at The Technical University of Munich, Germany. From 2005–2006, he was a development engineer by the Max-Planck Institute of Biochemistry in the Nano Photonics-Group in Martinsried, Germany. 2007, he was a Research and Teaching Assistant in the Department of Micro Technology and Medical Device Technology, Technical University of Munich, Germany. From 2008–2014, he was a Research and Teaching Assistant in the Bio-Inspired Information Processing group, Technical University of Munich, Germany. Currently he is working toward the PhD degree at Technical University of Munich, where he developed mathematical models to investigate the coding of sound in the auditory nerve for cochlear implants. His research interests include neural coding of sound, mathematical modelling, cochlear implants, neurophysiology and psychophysics.

Professor Dr. rer. nat. Volker Hohmann



Volker Hohmann received the Physics degree (Dipl.-Phys.) and the doctorate degree in Physics (Dr. rer. nat.) from the University of Göttingen, Germany, in 1989 and 1993. He has been a faculty member of the Physics Institute, University of Oldenburg, Germany since 1993 and was appointed full professor in 2012. His research expertise is in acoustics and digital signal processing with applications to signal processing in speech processing devices, e.g., hearing aids. He is a consultant with the Hörzentrum Oldenburg GmbH. He was a Guest Researcher at Boston University, Boston, MA, (Prof. Dr. Colburn) in 2000 and at the Technical University of Catalonia, Barcelona, Spain in 2008. Prof. Hohmann received the Lothar-Cremer price of the German acoustical society (DEGA) in 2008 and the German President's Award for Technology and Innovation in 2012.

We thank for funding from the German Federal Ministry of Education and Research and from the Munich Center for Neurosciences and for funding and organizational help from the Bernstein Center for Computational Neuroscience Munich and the Bernstein Coordination Site.

SESSION TYPES

■ Keynote Sessions

These sessions are conducted by distinguished speakers who have been invited to cover important topics or developments on a specific field.

■ Tutorials

Tutorials are intended to train young residents and other professionals in the field, especially those who are new in this area. The tutorials aim to convey basic knowledge to the audience and should allow interactive discussions.

■ Round Table Sessions

Round table sessions aim to create discussions on developing new fields. Sessions are organized and lead by two session moderators who guide and direct all important aspects of the topic. Only short snapshot presentations will be presented by the participants to give plenty of room for questions and answers and enough time for discussion among the audience.

■ Scientific Sessions

These sessions intend to cover a topic with all associated aspects. Scientific sessions are jointly organized by session chairpersons who take care of all aspects and also moderate the session. Speakers will either give invited presentations or present topics chosen from abstracts by the scientific committee. It is the duty of moderating chairs to ensure that all aspects of the topics are addressed and covered. The remaining time at the end of each session remains for questions and answers.

■ Bernstein Sparks Workshop "Modeling and Signal Processing for Auditory Implants"

The workshop will cover the topic from modeling the auditory periphery to models of auditory perception, and discuss their application for designing new stimulation strategies. We will bring together leading scientists involved in the modeling and developing algorithms for auditory implants and we explicitly invite clinicians to join this workshop to raise the mutual awareness of the issues involved in cochlear implants and their implantation.

■ Temporal Bone Workshop

Cochlear implant surgery and surgeons require a profound knowledge of anatomy. The aim of this temporal bone dissection sessions is to initiate mandatory training. This course is intended for otolaryngologists and residents in training with a defined experience in temporal bone anatomy and management of the ear to get an introduction to apply cochlear implants and other hearing implants. Each course can take five surgeons and lasts 90 min. Instructors guide the preparations of high quality temporal bones, dissecting all important anatomical landmarks and finally inserting CI electrodes or placing active middle ear implants. Experienced cochlear implant surgeons are present to assist and share their knowledge. Registration is possible on-site only. Slots are scheduled on a first come-first serve basis.

■ Invited Lectures

Invited lectures involve presentations of recognized researchers or clinicians and address the latest developments associated to either aspects of cochlear implants, diagnostics, surgery, rehabilitation or any other topics which are listed in the section topics of the conference. Invited lectures are included in scientific sessions as an introduction or a conclusion of the session.

■ Oral Presentations

This type of lecture involves submitted applications for oral presentation related to any topic of the conference. Oral talks aim to address the latest developments of a specific field associated with either aspects of cochlear implants, diagnostics, surgery, rehabilitation or any other topic listed in the section "topics of the conference". Oral presentations are included in scientific sessions.

■ Snapshot Presentations

This is a new presentation format using advanced electronic posters and big screens which are based on PowerPoint files including videos or animations. The scientific paper includes both an electronic poster and a short condensed oral presentation of the key message (4 min). The ePoster part should be presented according to classic poster guidelines. Details should be included in the poster while the main learning message shall be presented during a 4 min oral presentation within the session. All snapshot presentations (posters part) are available throughout the poster terminals during the whole conference without the attendance of the speakers. Poster presentations will also be available for download on the website after the conference, if the authors agree. Snapshots are included in scientific sessions.

■ ePoster Presentations

Poster presentations will appear in a new presentation format which makes use of advanced electronic posters with big screens and an iPad controlled presentation and search system. The ePosters are based on PowerPoint files and may also include videos clips or animations.

■ Video Sessions

This is a new presentation format which also makes use of advanced electronic posters with big Full HD screens. The duration for a video presentation is 12 min and 3 min for discussion during the scheduled session. Video presentations are available throughout the presentation terminals during the whole conference without the attendance of speakers. Video presentations will also be available on the website after the conference, if the authors agree.

SCIENTIFIC PROGRAM

WEDNESDAY | JUNE 18, 2014

PROGRAM OVERVIEW

Philharmonie		
13:00	<p>Others</p> <p>13:00–13:20 Opening/welcome ▶ see page 18</p>	13:00
	<p>SAT1</p> <p>13:30–14:30 MED-EL: In sync with natural hearing ▶ see page 18</p>	14:00
15:00	<p>SAT2</p> <p>14:40–15:40 Advanced Bionics: Proven AB innovations ▶ see page 18</p>	15:00
16:00	<p>SAT3</p> <p>15:50–16:50 Oticon Medical: Together we are stronger – new advances in CI & BAHS ▶ see page 18</p>	16:00
17:00	<p>SAT4</p> <p>17:00–18:00 Cochlear ▶ see page 18</p>	17:00
18:00	<p>Others</p> <p>18:15–19:30 Opening ceremony ▶ see page 19</p>	18:00
19:00	<p>Others</p> <p>19:30–21:30 Welcome reception: meet the experts ▶ see page 19</p>	19:00
20:00		20:00
21:00		21:00

QUICK LINKS

ABSTRACTS



APP



WEBSITE



PROGRAM



WEDNESDAY | JUNE 18, 2014

DETAILED PROGRAM

	OTHERS	► Philharmonie	
13:00–13:20 Philharmonie	Opening/welcome		
	SAT1 SATELLITE SYMPOSIUM	► Philharmonie	
13:30–14:30 Philharmonie	MED-EL: In sync with natural hearing		
	SAT2 SATELLITE SYMPOSIUM	► Philharmonie	
14:40–15:40 Philharmonie	Advanced Bionics: Proven AB innovations		
	SAT3 SATELLITE SYMPOSIUM	► Philharmonie	
15:50–16:50 Philharmonie	Oticon Medical: Together we are stronger – new advances in CI & BAHS		
	<i>Chair: Thomas Lenarz (Hanover, Germany)</i>		
	SAT3-1 Together we are stronger – Oticon Medical and our dedication to hearing implant solutions <i>Jes Olsen (Copenhagen, Denmark)</i>		
	SAT3-2 Minimal invasive implant design and advanced sound processing technology in CI <i>Edward H. Overstreet (Nice, France)</i>		
	SAT3-3 Clinical outcomes with the latest CI technology <i>Dan Gnansia (Nice, France)</i>		
	SAT3-4 Hearing preservation and atraumatic insertion: rationale, technique and future prospects <i>Yann N. Guyen (Paris, France)</i>		
	SAT3-5 Ponto Plus – the gold standard in bone anchored hearing <i>Marcus Holmberg (Gothenburg, Sweden)</i>		
	SAT4 SATELLITE SYMPOSIUM	► Philharmonie	
17:00–18:00 Philharmonie	Cochlear		
	SAT4-1 Welcome & introduction <i>Richard Brook (Basel, Switzerland)</i>		
	SAT4-2 Nucleus 6 clinical benefits – living in the real world <i>Paul Govaerts (Antwerp-Deurne, Belgium)</i>		
	SAT4-3 Indications, clinical benefits and use of combined electro-acoustic hearing <i>Thomas Lenarz (Hanover, Germany)</i>		
	SAT4-4 Making informed clinical decisions with data logging <i>Clare Allen (Nottingham, United Kingdom)</i>		
	SAT4-5 Indications, use and outcomes of the transcutaneous Baha Attract <i>Robert Briggs (East Melbourne, Australia)</i>		
	SAT4-6 Summary & close		

	OTHERS	► Philharmonie	⋮
18:15–19:30 Philharmonie	Opening ceremony		
	0-1 Opening remarks/greetings <i>Joachim Müller (Munich, Germany)</i>		
	0-2 Ethics in medicine <i>Horst Luckhaupt (Dortmund, Germany)</i>		
	0-3 Music is my life – introduction to Bernd Glemser <i>Johanna Pätzold (Durham, United States)</i>		
	0-4 Concert <i>Bernd Glemser (Wuerzburg, Germany)</i>		
	0-5 Official opening		
	OTHERS	► Foyer	⋮
19:30–21:30 Foyer	Welcome reception: meet the experts		

SCIENTIFIC PROGRAM

THURSDAY | JUNE 19, 2014

PROGRAM OVERVIEW

	Philharmonie	Carl-Orff-Saal 	Black Box 	Chorprobensaal
08:00		T1 07:30–08:30 Who gets what? Thoughts from an audiology perspective ▶ see page 22	T2 07:30–08:30 Medical documentation ear and cochlea implant database – why the clinician needs a scientific database and the scientist needs a clinical database ▶ see page 22	T3 07:30–08:30 Electrophysiology and cochlear implants ▶ see page 22
09:00	KN1 08:30–10:00 The development of the modern cochlear implant: Lasker-DeBakey clinical medical research award winner session ▶ see page 23			
10:00	Coffee break			
11:00	RT1 10:30–12:30 Cochlear implants: a remarkable past and a brilliant future – the “past presidents panel” ▶ see page 24	S1 10:30–12:30 Development of rehabilitation concepts ▶ see page 24	S2 10:30–12:30 Intraoperative/objective measurements I ▶ see page 25	S3 10:30–12:30 Development of surgical techniques ▶ see page 26
12:00				
13:00	Lunch break			
14:00	RT3 13:30–15:00 Young children ▶ see page 30	S5 13:30–15:00 Electric-acoustic stimulation ▶ see page 30	S6 13:30–15:00 Music and CI I ▶ see page 31	S7 13:30–15:00 Language acquisition and speech production after CI ▶ see page 32
15:00	S10 15:00–16:30 CI in the elderly ▶ see page 36	S11 15:00–16:00 Malformed cochlea ▶ see page 37	S12 15:00–15:45 Drug delivery ▶ see page 38	S13 15:00–16:30 Development of implanted children incl. cognitive and social development & educational aspects ▶ see page 38
16:00		S15 16:00–16:30 Hearing and structure preservation ▶ see page 41	S16 15:45–16:30 Hearing implants in the military ▶ see page 41	
17:00	Coffee break			
18:00	RT5 17:00–18:45 The beauty of the cochlea ▶ see page 42	RT6 17:00–18:45 What can we learn from the experts ▶ see page 42	S17 17:00–18:45 Hearing and structure preservation ▶ see page 43	S18 17:00–18:45 Accompanying modalities: awareness, self helping rehabilitation, self helping groups to support performance, support & aftercare in assistive listening devices, growing populations ▶ see page 44



Vortragssaal der Bibliothek 	Kleiner Konzertsaal 	ePoster 1	ePoster 2	Temporal Bone Lab	
T4					
07:30–08:30 Quality standards for cochlear implants and hearing implants ▶ see page 23					08:00
					09:00
Coffee break					10:00
KN2	S4	P1-1	VS1	Hands-on Workshop I	
10:30–12:30 Middle ear implants ▶ see page 27	10:30–12:00 Implant hardware & new implant technology ▶ see page 28	10:30–11:45 Anatomy beauty of the cochlea ▶ see page 89	10:30–12:30 Video session (poster area 2nd floor) ▶ see page 88	10:30–12:00 Temporal bone ▶ see page 29	11:00
	RT2	P1-2			12:00
	12:00–12:30 Chinese-German friendship ▶ see page 29	11:45–12:30 Radiology ▶ see page 89			
Lunch break					13:00
S8	S9	P1-3	P2-1	Hands-on Workshop II	
13:30–15:00 New trends in electrode development & new technologies ▶ see page 33	13:30–15:00 Intraoperative/objective measurements II ▶ see page 34	13:30–15:00 Hearing & structure preservation I ▶ see page 90	13:30–14:30 Medical issues ▶ see page 91	13:30–15:00 Temporal bone ▶ see page 35	14:00
S14	RT4	P1-4	P2-2	Hands-on Workshop III	
15:00–16:30 Sound processing ▶ see page 39	15:00–16:30 Cholesteatoma, chronic otitis and CI ▶ see page 30	15:00–16:30 Hearing & structure preservation II ▶ see page 93	14:30–16:30 Middle ear implants ▶ see page 92	15:00–16:30 Temporal bone ▶ see page 40	15:00
Coffee break					16:00
S21	S22	P1-5	P2-3	Hands-on Workshop IV	
17:00–18:45 Speech coding ▶ see page 45	17:00–18:45 Difficult and atypical patients, challenging situations, borderline cases, CI for children in deaf families ▶ see page 46	17:00–18:45 Rehabilitation ▶ see page 94	17:00–18:45 Fitting ▶ see page 95	17:00–18:45 Temporal bone ▶ see page 47	17:00
					18:00

T: TUTORIAL
KN: KEYNOTE LECTURE
S: SCIENTIFIC SESSION

VS: VIDEO SESSION
WS: BERNSTEIN SPARKS WORKSHOP
P: ePOSTER SESSION

SAT: SATELLITE SYMPOSIUM
RT: ROUND TABLE
OTHERS

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		T1	TUTORIAL	▶ Carl-Orff-Saal	
07:30–08:30 Carl-Orff-Saal			Who gets what? Thoughts from an audiology perspective <i>Supported by MED-EL</i>		
		Chair:	<i>Jennifer Robinson (Innsbruck, Austria)</i>		
		Tutors:	<i>Artur Lorens (Kajetany/Warsaw, Poland)</i> <i>Andreas Büchner (Hanover, Germany)</i>		
			Discussion		
		T2	TUTORIAL	▶ Black Box	
07:30–08:30 Black Box			Medical documentation: ear and cochlea implant database – why the clinician needs a scientific database and the scientist needs a clinical database <i>Supported by Innoforce</i>		
		Chair:	<i>Thomas Linder (Lucerne, Switzerland)</i> <i>Franz Schön (Wuerzburg, Germany)</i>		
07:30–07:35	T2-1	Introduction	<i>Joachim Müller (Munich, Germany)</i>		
07:35–07:45	T2-2	The Munich ^{LMU} Otologic Database – ENTstatistics, © by innoForce Est	<i>Ulrich Kisser (Munich, Germany)</i>		
07:45–08:15	T2-3	Ear and cochlea implant database – why the clinician needs a scientific database and the scientist needs a clinical database	<i>Thomas Linder (Lucerne, Switzerland)</i>		
08:15–08:30	T2-4	Discussion			
		T3	TUTORIAL	▶ Chorprobensaal	
07:30–08:30 Chorprobensaal			Electrophysiology and cochlear implants		
		Chair:	<i>Ranjith Rajeswaran (Chennai, India)</i> <i>Viktor Reiman (Munich, Germany)</i>		
07:30–07:50	T3-1	Electrophysiology for cochlear implants	<i>William Gibson (Gladesville, Australia)</i> <i>Halit Sanli (Gladesville, Australia)</i>		
07:50–08:10	T3-2	Acoustic neural response telemetry: the equipment and methodology needed to measure residual hearing	<i>Halit Sanli (Gladesville, Australia)</i>		
08:10–08:30	T3-3	Discussion			

		T4	TUTORIAL	► Vortragssaal der Bibliothek	
07:30–08:30	Vortragssaal der Bibliothek		Quality standards for cochlear implants and hearing implants <i>A contribution of the HEARRING Group</i>		
		Chair:	<i>Christopher Raine (Bradford, United Kingdom)</i> <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
07:30–07:42		T4-1	Quality standards for cochlear implants in adults and children <i>Christopher Raine (Bradford, United Kingdom)</i>		
07:42–07:54		T4-2	Quality standards for rehabilitation <i>Jane Martin (Bradford, United Kingdom)</i> <i>Helen Peebles (Bradford, United Kingdom)</i>		
07:54–08:30		T4-3	Round table: Quality standards for all hearing implants <i>Wolf-Dieter Baumgartner (Vienna, Austria)</i> <i>Marco Caversaccio (Bern, Switzerland)</i> <i>Han DeMin (Beijing, China)</i> <i>Benoit Godey (Rennes, France)</i> <i>Kevin Green (Manchester, United Kingdom)</i> <i>Mohan Kameswaran (Chennai, India)</i> <i>Joachim Müller (Munich, Germany)</i> <i>Helen Peebles (Bradford, United Kingdom)</i> <i>Gunesh Rajan (Fremantle, Australia)</i> <i>Henryk Skarzynski (Warsaw, Poland)</i> <i>Shin-Ichi Usami (Matsumoto, Japan)</i>		
		KN1	KEYNOTE SESSION	► Philharmonie	
08:30–10:00	Philharmonie		The development of the modern cochlear implant: Lasker-DeBaKey clinical medical research award winner session		
		Chair:	<i>Alexander Berghaus (Munich, Germany)</i> <i>Jan Helms (Tuebingen, Germany)</i> <i>Joachim Müller (Munich, Germany)</i>		
08:30–08:35		KN1-1	Introduction <i>Joachim Müller (Munich, Germany)</i>		
08:35–09:00		KN1-2	The multichannel cochlear implant for severe-to-profound hearing loss <i>Graeme Clark (Melbourne, Australia)</i>		
09:00–09:25		KN1-3	The modern cochlear implant: from invention and research to global use and current challenges <i>Ingeborg Hochmair (Innsbruck, Austria)</i>		
09:25–09:50		KN1-4	Toward better representations of sound with cochlear implants <i>Blake Wilson (Durham, United States)</i>		
09:50–10:00		KN1-5	Lasker award interviews 2013 video presentation		
10:00–10:30			Coffee break		

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	RT1	ROUND TABLE	► Philharmonie	
10:30–12:30		Cochlear implants: a remarkable past and a brilliant future – the “past presidents panel”		
		<i>Chair & Moderation:</i> Jan Helms (Tuebingen, Germany) Blake Wilson (Durham, United States)		
10:30–10:45	RT1-1	Cochlear implants – a comprehensive view on current indications and a glimpse into the future Joachim Müller (Munich, Germany)		
10:45–11:00	RT1-2	Cochlear implant: considerations when and now Erwin Hochmair (Innsbruck, Austria)		
11:00–11:15	RT1-3	Cochlear implantation in infants below 12 months of age Richard Miyamoto (Indianapolis, United States)		
11:15–11:30	RT1-4	Infants receiving a cochlear implant before nine months of age have no language delay Eva Karltorp (Stockholm, Sweden)		
11:30–11:45	RT1-5	Evidence for the expansion of pediatric cochlear implant candidacy David S. Haynes (Nashville, United States)		
11:45–12:00	RT1-6	Hybrid cochlear implants: acoustic hearing stability and long-term results Bruce Gantz (Iowa City, United States)		
12:00–12:15	RT1-7	Hearing implants for substantial (residual) hearing Wolf-Dieter Baumgartner (Vienna, Austria)		
12:15–12:30	RT1-8	TBA Julian M. Nedzelski (Toronto, Canada)		
	S1	SCIENTIFIC SESSION	► Carl-Orff-Saal	
10:30–12:30		Development of rehabilitation concepts		
		<i>Chair:</i> Inna Koroleva (St. Petersburg, Russia) Stefanie Rühl (Munich, Germany)		
10:30–10:45	S1-1	Development of rehabilitation concepts for adults and children Sue Archbold (Nottingham, United Kingdom)		Invited talk
10:45–10:53	S1-2	Auditory sentence processing in adult cochlear implant users Vanessa Hoffmann (Starnberg, Germany)		
10:53–11:01	S1-3	Working with older adults with short term memory loss Jillian Ridgwell (Bradford, United Kingdom)		
11:01–11:05	S1-4	The development of “sound success”. A new online speech reading and speech perception resource to support hearing rehabilitation for adults and adolescents Sandra Driver (London, United Kingdom)		
11:05–11:09	S1-5	A visual-syntactic method for improving reading comprehension of cochlear implanted students Nazli Moghtadaei (Tehran, Iran)		
11:09–11:17	S1-6	Different options for auditory training – adaptive rehabilitation Frans Coninx (Solingen, Germany)		
11:17–11:21	S1-7	Oral communication of hearing impaired children treated with cochlear implants or hearing aids Ruth Lang-Roth (Cologne, Germany)		
11:21–11:25	S1-8	Cochlear implant centres: experience with children with complex needs Sue Archbold (Nottingham, United Kingdom)		
11:25–11:29	S1-9	Therapy intensity as an influence factor for speech comprehension in children after sequential bilateral cochlear implantation Angelika Illg (Hanover, Germany)		

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11:29–11:33	S1-10	The efficiency of patient's rehabilitation after bilateral cochlear implantation <i>Marina Goykhuburg (Moscow, Russia)</i>
11:33–11:37	S1-11	Verbal working memory training in cochlear implanted children <i>Saeid Hassanzadeh (Tehran, Iran)</i>
11:37–11:41	S1-12	Using data logging as a counselling tool with adult cochlear system 6 recipients <i>Lynne Tapper (Bradford, United Kingdom)</i>

S2		SCIENTIFIC SESSION	► Black Box	
10:30–12:30	Black Box	Intraoperative/objective measurements I		
	<i>Chair:</i>	<i>Andreas Büchner (Hanover, Germany)</i> <i>Artur Lorens (Kajetany/Warsaw, Poland)</i>		
10:30–10:45	S2-1	Clinical use of evoked potentials <i>Joachim Müller-Deile (Kiel, Germany)</i>		
10:45–11:00	S2-2	Clinical application of electrical stapedius reflex testing <i>Kurt Stephan (Innsbruck, Austria)</i>		
11:00–11:04	S2-3	Time evolution of comfort levels based on electrically evoked stapedius reflex thresholds in children with CI <i>Josef Seebacher (Innsbruck, Austria)</i>		
11:04–11:08	S2-4	Intraoperative monitoring in cochlear implantation for hearing preservation <i>Franco Trabalzini (Siena, Italy)</i>		
11:08–11:12	S2-5	An algorithm for intraoperative monitoring during cochlear implant surgery <i>Susan Waltzman (New York, United States)</i>		
11:12–11:16	S2-6	Relation between the etiology of deafness and electrically evoked auditory brainstem response recorded during cochlear implantation <i>Nicolas-Xavier Bonne (Lille, France)</i>		
11:16–11:20	S2-7	Remote intraoperative support during cochlear implantation <i>Serafima Sugarova (St. Petersburg, Russia)</i>		
11:20–11:28	S2-8	Relating objective measures of auditory function to behavioural speech outcomes among high level adult performers with the MED-EL Flex Electrode <i>Samidha Joglekar (Toronto, Canada)</i>		
11:28–11:36	S2-9	The relationship between electrical auditory brainstem responses and perceptual thresholds in Digisonic® SP cochlear implant users <i>Bertrand Philippon (Vallauris, France)</i>		
11:36–11:40	S2-10	Automated ECAP classification in objective measure software <i>Carolin Frohne-Buechner (Hanover, Germany)</i>		
11:40–11:48	S2-11	New approaches determining the ECAP threshold <i>Sebastian Hoth (Heidelberg, Germany)</i>		
11:48–11:56	S2-12	Recordings of acoustic evoked potentials directly from the different places of cochlea via intracochlear electrodes in cochlear implantees with partial deafness <i>Artur Lorens (Kajetany/Warsaw, Poland)</i>		
11:56–12:00	S2-13	Comparison of electrically evoked compound action potential growth function and loudness growth function <i>Andreas Büchner (Hanover, Germany)</i>		
12:00–12:04	S2-14	Intracochlear impedance matrix test for the nucleus cochlear implant <i>Matthias Hey (Kiel, Germany)</i>		
12:04–12:08	S2-15	Evaluation of cochlear implant patients having no electrically evoked compound action potential <i>Jun Ikeya (Sapporo, Japan)</i>		
12:08–12:12	S2-16	Efficacy of objective ESRT fitting method to generate audio processor programs for young CI users <i>Julie Kosaner (Istanbul, Turkey)</i>		

	S3	SCIENTIFIC SESSION	▶ Chorprobensaal	
10:30–12:30		Development of surgical techniques		
Chorprobensaal		<i>Chair: Vladimir Kuzovkov (St. Petersburg, Russia) Hans Wilhelm Pau (Rostock, Germany)</i>		
10:30–10:34	S3-1	What did we learn from single channel cochlear implants (1983–2003)? <i>Aziz Belal (Alexandria, Egypt)</i>		
10:34–10:42	S3-2	Cochlear® Hybrid™ system: factors involved in outcomes <i>J. Thomas Roland (New York, United States)</i>		
10:42–10:50	S3-3	Hearing preservation and clinical outcome of EAS surgeries (including video atraumatic electrode insertion) <i>Shin-Ichi Usami (Matsumoto, Japan)</i>		
10:50–10:58	S3-4	Apical versus non-apical electric stimulation of the cochlea using the same system <i>Harold Pillsbury (Chapel Hill, United States)</i>		
10:58–11:06	S3-5	The development of the small incision for cochlear implantation <i>William Gibson (Gladesville, Australia)</i>		
11:06–11:10	S3-6	Small incision and drilling technics using custom made skin protector <i>Yongxin Li (Beijing, China)</i>		
11:10–11:14	S3-7	Transcanal minimal invasive technique for cochlear implantation (overview of 1000 cases done in 15 years, using all implant systems) <i>Jithendra Hans (New Delhi, India)</i>		
11:14–11:18	S3-8	Cochlear implant surgery with local anaesthesia and sedation: about 18 cases <i>Emmanuel Lescanne (Tours, France)</i>		
11:18–11:22	S3-9	Middle fossa approach for cochlear implantation <i>Lukasz Borucki (Poznan, Poland)</i>		
11:22–11:26	S3-10	Keyhole implantation techniques <i>Bruce Black (Brisbane, Australia)</i>		
11:26–11:30	S3-11	The role of subtotal petrosectomy in cochlear implant surgery: report of 61 cases and review on indications <i>Lorenzo Lauda (Piacenza, Italy)</i>		
11:30–11:34	S3-12	Experience and evolution of surgical technique over 1 st 100 independent cochlear implant surgeries <i>Shomeshwar Singh (New Delhi, India)</i>		
11:34–11:42	S3-13	The outcome of cochlear implant on 1895 Chinese patients <i>Shiming Yang (Beijing, China)</i>		
11:42–11:46	S3-14	Scala vestibuli dislocations: which consequences and how to avoid them? <i>Mathieu Marx (Toulouse, France)</i>		
11:46–11:50	S3-15	The novel method of cochlear implant fixation <i>Vladislav Kuzovkov (St. Petersburg, Russia)</i>		
11:50–11:54	S3-16	Cochlear ossification and implantation in patients with profound hearing loss following bacterial meningitis <i>Per Caye-Thomasen (Copenhagen, Denmark)</i>		
11:54–11:58	S3-17	Stenting: a viable option in ossified cochlea <i>Milind Kirtane (Mumbai, India)</i>		
11:58–12:02	S3-18	CI in cases with cochlear dysplasia: surgical technique and auditory outcome <i>Daoxing Zhang (Beijing, China)</i>		
12:02–12:06	S3-19	On influence of cochlear modiolus dysplasia to CI auditory outcome <i>Daoxing Zhang (Beijing, China)</i>		
12:06–12:10	S3-20	CI re-implantation <i>Kuang Chao Chen (Taipei, Taiwan, China)</i>		
12:10–12:14	S3-21	Magnet removal for MRI artifact reduction with a new MED-EL implant <i>Mattheus Vischer (Bern, Switzerland)</i>		

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12:14–12:18	S3-22	Well design in cochlear implants – a forgotten art? <i>Manoj Puthiyaparambil (Calicut, India)</i>	
12:18–12:22	S3-23	Bilateral round window VSB implantation via subfacial approach <i>Pu Dai (Beijing, China)</i>	
12:22–12:26	S3-24	Cochlear implantation in open cavities <i>Mohsen Rajati (Mashhad, Iran)</i>	
	KN2	KEYNOTE SESSION	► Vortragssaal der Bibliothek 
10:30–12:30		Middle ear implants	
Vortragssaal der Bibliothek	Chair:	<i>John Martin Hempel (Munich, Germany)</i> <i>Manuel Manrique Rodriguez (Pamplona, Spain)</i>	
10:30–10:36	KN2-1	Incidence of indications for active middle ear implants <i>Jan Helms (Tuebingen, Germany)</i>	Invited talk
10:36–10:56	KN2-2	Mechanical aspects of natural and reconstructed hearing <i>Albrecht Eiber (Stuttgart, Germany)</i>	Invited talk
10:56–11:04	KN2-3	Middle ear implants in Japan – 20 year's experiences at University of Miyazaki <i>Tetsuya Tono (Miyazaki, Japan)</i>	
11:04–11:16	KN2-4	From concept to therapy – clinical results with a direct acoustic cochlear implant <i>Thomas Lenarz (Hanover, Germany)</i>	Invited talk
11:16–11:24	KN2-5	Active middle ear implants: long-term experience with the Vibrant Soundbridge <i>Arneborg Ernst (Berlin, Germany)</i>	
11:24–11:28	KN2-6	Experiences of VSB (Vibrant Soundbridge®) in twelve cases with moderate to severe mixed hearing loss <i>Katsumi Doi (Osaka-Sayama, Japan)</i>	
11:28–11:32	KN2-7	Low frequency amplification with direct inner ear stimulation – new possibilities with VSB <i>Burkard Schwab (Hanover, Germany)</i>	
11:32–11:40	KN2-8	Reliability of the otologics Carina® totally implantable active middle ear transducer: a retrospective study in 136 devices <i>Eric Truy (Lyon, France)</i>	
11:40–11:48	KN2-9	Long-term results after application of the Esteem device <i>Maurizio Barbara (Rome, Italy)</i>	
11:48–11:52	KN2-10	First European multicentric analysis of the use of a new semi-implantable hearing device: Ototronix Maxum System <i>Thomas Somers (Antwerp, Belgium)</i>	
11:52–11:56	KN2-11	Evaluation of the benefits of the MAXUM system on bimodal hearing in patients with severe sensorineural hearing loss, wearing a cochlear implant in the contralateral ear <i>Jack Wazen (Sarasota, United States)</i>	
11:56–12:00	KN2-12	The PowerMax middle ear implant for mixed hearing loss <i>Michael Glasscock (Austin, United States)</i>	
12:00–12:04	KN2-13	Surgical experience with Baha Attract <i>Piotr Skarzynski (Warsaw, Poland)</i>	
12:04–12:08	KN2-14	Bonebridge and CI surgery under local anesthesia <i>Manuel Manrique (Pamplona, Spain)</i>	
12:08–12:12	KN2-15	Systemic review to evaluate the safety, efficacy and economical outcomes of the Vibrant Soundbridge for the treatment of sensorineural hearing loss (SNHL) Abstract <i>Barbara Wollenberg (Lübeck, Germany)</i>	
12:12–12:20	KN2-16	Are middle ear implants superior to bone-conduction devices for patients with conductive/mixed hearing loss? <i>Ad Snik (Nijmegen, The Netherlands)</i>	

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		S4	SCIENTIFIC SESSION	► Kleiner Konzertsaal	
10:30–12:00 Kleiner Konzertsaal			Implant hardware & new implant technology		
		Chair:	<i>Robert Cowan (Melbourne, Australia)</i> <i>Clemens Zierhofer (Innsbruck, Austria)</i>		
10:30–10:45	S4-1		Optogenetic stimulation of the auditory pathway as a strategy for better frequency and intensity resolution in future cochlear implants <i>Tobias Moser (Goettingen, Germany)</i>		Invited talk
10:45–10:49	S4-2		Optical stimulation of the cochlea – electrophysiological responses of irradiated spiral ganglion neurons in vitro <i>Alexander Rettenmaier (Hanover, Germany)</i>		
10:49–10:53	S4-3		Excitation patterns in the inferior colliculus point to an opto-acoustic mechanism of intra-cochlear infrared laser stimulation <i>Peter Baumhoff (Hanover, Germany)</i>		
10:53–11:08	S4-4		A non-linear approach for the reconstruction of EAP-signals from Sigma-Delta sequences <i>Clemens Zierhofer (Innsbruck, Austria)</i>		Invited talk
11:08–11:12	S4-5		A low-power custom integrated circuit vector matrix multiplier for an implantable vestibular prosthesis <i>Pamela Bhatti (Atlanta, United States)</i>		
11:12–11:16	S4-6		Reduction of eddy current losses in inductive transmission systems with ferrite sheets <i>Andreas Griessner (Innsbruck, Austria)</i>		
11:16–11:20	S4-7		Micro computed tomography imaging of a silicone coated thin-film polymeric electrode array in the feline cochlea <i>Pamela Bhatti (Atlanta, United States)</i>		
11:20–11:24	S4-8		Micro magnetic stimulation of the feline cochlea <i>David Blake (Augusta, United States)</i>		
11:24–11:28	S4-9		Perilymph proteomic imprint using a new tool with a nanoporous silicon chip <i>Eric Boyer (La Tronche, France)</i>		
11:28–11:32	S4-10		Towards a self-adapting, smart softening cochlear implant with high channel density <i>David Arreaga (Dallas, United States)</i>		
11:32–11:36	S4-11		Release of BDNF from a nanomatrix induces neurite outgrowth in spiral ganglion cell <i>Marcus Müller (Tuebingen, Germany)</i>		
11:36–11:40	S4-12		The present and future of cochlear implants <i>María Pérez Zaballos (Las Palmas, Spain)</i>		
11:40–11:44	S4-13		Laser and chemical surface modifications of titanium grade 2 for applications in middle ear implants <i>Piotr Kwasniak (Warsaw, Poland)</i>		
		P1-1	ePOSTER SESSION	► ePoster 1	
10:30–11:45 ePoster 1			Anatomy beauty of the cochlea For details view p. 89		
		VS1	VIDEO SESSION	► Poster area 2 nd floor	
10:30–12:30 Poster area 2 nd floor			For details view p. 88		

TB1		HANDS-ON WORKSHOP I	► Temporal Bone Lab	
10:30–12:00	Temporal Bone Lab	Temporal bone		
	<i>Instructor:</i>	<i>Stefan Dazert (Bochum, Germany)</i> <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
	<i>Tutors:</i>	<i>Ulrich Kisser (Munich, Germany)</i> <i>Martin Patscheider (Munich, Germany)</i> <i>Florian Schrötzlmair (Munich, Germany)</i>		
P1-2		ePOSTER SESSION	► ePoster 1	
11:45–12:30	ePoster 1	Radiology		
		For details view p. 89		
RT2		ROUND TABLE	► Kleiner Konzertsaal	
12:00–12:30	Kleiner Konzertsaal	Chinese-German friendship		
	<i>Chair & Moderation:</i>	<i>Dong-Yi Han (Beijing, China)</i> <i>Karl Hörmann (Mannheim, Germany)</i> <i>Norbert Stasche (Kaiserslautern, Germany)</i>		
12:00–12:08	RT2-1	History of Chinese German friendship <i>Lisheng Yu (Beijing, China)</i>		
12:08–12:12	RT2-2	Deaf patients are sensitive to ‘hear sound photo’: evidence from event related potentials <i>Maojin Liang (Guangzhou, China)</i>		
12:12–12:16	RT2-3	Establishment and rudimentary application of the method of recording EMLR in cochlear implantation <i>Bin Wang (Beijing, China)</i>		
12:16–12:20	RT2-4	Pre-processing with microphone array and noise reduction for electroacoustic stimulation of cochlear implant simulation on Chinese speech recognition in noise <i>Chao-Min Wu (Chung-Li, Taiwan)</i>		
12:20–12:24	RT2-5	The effect of cultural differences on timbre perception <i>Liu Ziye (Beijing, China)</i>		
12:24–12:28	RT2-6	A case report of the cochlear implant electrode array misplacement into vestibular and superior semicircular canal <i>Zhaomin Fan (Ji Nan, China)</i>		
12:30–13:30		Lunch break		

	RT3	ROUND TABLE	► Philharmonie 
13:30–15:00 Philharmonie		Young children	
	<i>Honorary Chair:</i>	<i>Agnes Hildmann (Bochum, Germany)</i>	
	<i>Chair & Moderation:</i>	<i>Joachim Müller (Munich, Germany) Blake Papsin (Toronto, Canada)</i>	
	<i>Panelists:</i>	<i>Wolf-Dieter Baumgartner (Vienna, Austria) Catherine Birman (Sydney, Australia) Robert Briggs (Melbourne, Australia) Mohan Kameswaran (Chennai, India) Eva Karltorp (Stockholm, Sweden) Roland Laszig (Freiburg, Germany) Thomas Lenarz (Hanover, Germany) Robert Mlynski (Wuerzburg, Germany) Angel Ramos (Las Palmas, Spain) Nancy Young (Chicago, United States)</i>	
	S5	SCIENTIFIC SESSION	► Carl-Orff-Saal 
13:30–15:00 Carl-Orff-Saal		Electric-acoustic stimulation	
	<i>Chair:</i>	<i>Bruce Gantz (Iowa City, United States) Wolfgang Gstöttner (Vienna, Austria)</i>	
13:30–13:38	S5-1	The influence of different types of acoustic amplification on hearing performance in subjects with electric-acoustic stimulation <i>Thomas Lenarz (Hanover, Germany)</i>	
13:38–13:46	S5-2	The effects of speech maskers in electric acoustic stimulation <i>Christoph Arnoldner (Vienna, Austria)</i>	
13:46–13:50	S5-3	Influence of insertion angle on speech perception after cochlea implantation <i>Silke Helbig (Frankfurt, Germany)</i>	
13:50–13:58	S5-4	Apical electrical stimulation after deep electrode insertion in patients with partial deafness <i>Artur Lorens (Kajetany/Warsaw, Poland)</i>	
13:58–14:02	S5-5	Tolerable processing delay in electro-acoustic stimulation <i>Josef Chalupper (Hanover, Germany)</i>	
14:02–14:06	S5-6	The role of map parameters on hearing preservation and speech perception outcomes with EAS <i>Margaret Dillon (Chapel Hill, United States)</i>	
14:06–14:10	S5-7	EAS and residual hearing with positive genetic background <i>Kozo Kumakawa (Tokyo, Japan)</i>	
14:10–14:14	S5-8	Clinical evaluation of the Nucleus® CP900 series processor in Hybrid mode: comparison of speech perception scores with and without the acoustic component in the Midlands hearing implant program – children's service, UK <i>Justine Maggs (Birmingham, United Kingdom)</i>	
14:14–14:18	S5-9	Long term outcomes in cochlear implant adult subjects with pre-implant low-frequency residual hearing <i>Roberto Filipo (Rome, Italy)</i>	
14:18–14:22	S5-10	Localization and speech intelligibility in bilateral and EAS cochlear implant users <i>Louise Loiselle (Tempe, United States)</i>	
14:22–14:26	S5-11	Nucleus 6 Hybrid Sound processor in patients with residual hearing <i>Anna Romy Götz (Potsdam, Germany)</i>	
14:26–14:30	S5-12	Relationship between speech discrimination and spread of excitation profile width in simulated CI speech processor – comparison of electric only and PDT EC hearing <i>Adam Walkowiak (Kajetany/Warsaw, Poland)</i>	

14:30–14:38	S5-14	Influence of CI electrodes on acoustic waves in the cochlea <i>Frank Böhnke (Munich, Germany)</i>
14:38–14:42	S5-15	The impact of a cochlear implant electrode array on middle ear transfer function – a temporal bone study <i>David Pazen (Cologne, Germany)</i>
14:42–14:46	S5-16	Vibro-EAS: a proposal for advanced electroacoustic stimulation <i>Sebastian Schraven (Wuerzburg, Germany)</i>
14:46–14:50	S5-17	Inferences and metaphoric comprehension in unilaterally implanted children with adequate formal oral language performance <i>Maria Nicastrì (Rome, Italy)</i>

S6 SCIENTIFIC SESSION

▶ Black Box



13:30–15:00 Black Box		Music and CI I
	<i>Chair:</i>	<i>Hanna Brockmeier (Basel, Switzerland)</i> <i>David Friedland (Milwaukee, United States)</i>
13:30–13:38	S6-1	Recognition of musical emotions in patients with cochlear implant <i>Emmanuèle Ambert-Dahan (Paris, France)</i>
13:38–13:46	S6-2	Auditory and gestural influences on song learning in children with cochlear implants <i>Tara Vongpaisal (Edmonton, Canada)</i>
13:46–13:54	S6-3	The “magic” of music made real in daily routine: a new habilitative tool for infant and toddler with hearing loss <i>Maria Nicastrì (Rome, Italy)</i>
13:54–13:58	S6-4	Childhood assessment of music perception skills (CHAMPS) in children with cochlear implants: a new test and pilot data <i>Christopher Linstrom (New York, United States)</i>
13:58–14:02	S6-5	Music engagement: the potential of the singing voice – an initial investigation of a group therapy approach <i>Johanna Pätzold (Durham, United States)</i>
14:02–14:06	S6-6	A comparison of music style identification abilities between cochlear implant and hearing aid users: setting realistic expectations for cochlear implant recipients <i>Valerie Looi (Sydney, Australia)</i>
14:06–14:10	S6-7	The impact of cochlear implantation of music appreciation <i>Valerie Looi (Sydney, Australia)</i>
14:10–14:14	S6-8	Music perception and appreciation in young adults with cochlear implants <i>Bess Nagler (New York, United States)</i>
14:14–14:18	S6-9	Research of apical effect on music perception – preliminary study <i>Meijui Huang (Taipei, Taiwan)</i>
14:18–14:22	S6-10	Fine structure contributions to discrimination of musical stimuli <i>David Friedland (Milwaukee, United States)</i>
14:22–14:26	S6-11	Association of music recognition and speech perception in children with bilateral cochlear implants: effects of music training, implanted side and binaural hearing <i>Yukihiko Kanda (Nagasaki, Japan)</i>
14:26–14:34	S6-12	The effect of music therapy and training on speech and music perception in cochlear-implant users <i>Rolien Free (Groningen, The Netherlands)</i>
14:34–14:38	S6-13	Electrophysiological evidence for semantic processing of music by cochlear implant-recipients <i>Anja Hahne (Dresden, Germany)</i>
14:38–14:42	S6-14	Improving learning ability by music & different aspects of music on CI users <i>Susan Abdi (Tehran, Iran)</i>

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14:42–14:46	S6-15	Association of musical training and music recognition by children and adolescents with bilateral cochlear implants <i>Takayuki Nakata (Hakodate, Japan)</i>
14:46–14:50	S6-16	Influences that musical activities by acoustic musical instrument bring to cochlear implant recipients – feeling the articulation of music <i>Yuji Matsumoto (Kawasaki-shi, Japan)</i>
14:50–14:54	S6-17	Differences in the perceived music between normal hearing, monolateral and bilateral cochlear implanted adults by EEG <i>Rossella Grassia (Naples, Italy)</i>

S7 SCIENTIFIC SESSION

▶ Chorprobensaal

**13:30–15:00**

Chorprobensaal

Language acquisition and speech production after CI

	<i>Chair:</i>	<i>Maria Schuster (Munich, Germany)</i> <i>Patrick Zorowka (Innsbruck, Austria)</i>
13:30–13:34	S7-1	Multi-center longitudinal study of oral language development in children after cochlear implantation: results of growth in narrative language skills from the childhood development after cochlear implantation (CDaCI) study <i>Nae-Yuh Wang (Baltimore, United States)</i>
13:34–13:38	S7-2	Effects of age on speech abilities in young cochlear implanted children <i>Sanja Spiric (Banja Luka, Bosnia and Herzegovina)</i>
13:38–13:46	S7-3	Lexical and semantic development in children with cochlear implants <i>Ulrika Löfkvist (Stockholm, Sweden)</i>
13:46–13:54	S7-4	Cochlear-implanted adult performance in figurative language comprehension <i>Daniela Marques (Porto Alegre, Brazil)</i>
13:54–14:02	S7-5	Auditory strategies and techniques to develop listening and spoken language skills <i>Domitille Lochet (Miami, United States)</i>
14:02–14:06	S7-6	Rehabilitation of the late cochlear implanted adolescents with prelinguistic deafness: the benefits of Persian Cued speech <i>Shokoofeh Mirzaaghabeyk (Tehran, Iran)</i>
14:06–14:14	S7-7	Speech production quality and duration of deafness before cochlea implantation <i>Maria Schuster (Munich, Germany)</i>
14:14–14:22	S7-8	Training of the singing voice of children with cochlear implants <i>Katrin Neumann (Bochum, Germany)</i>
14:22–14:26	S7-9	Acoustic properties of vowel production in prelingually deafened children with cochlear implants <i>Li Xu (Athens, United States)</i>
14:26–14:30	S7-10	Acoustic structure of voice in children with partial deafness (PD) <i>Elzbieta Wlodarczyk (Warsaw, Poland)</i>
14:30–15:00	S7-11	Discussion

S8		SCIENTIFIC SESSION	► Vortragssaal der Bibliothek 
13:30–15:00		New trends in electrode development & new technologies	
Vortragssaal der Bibliothek	Chair:	<i>Jan Peter Thomas (Bochum, Germany)</i> <i>Neelam Vaid (Pune, India)</i>	
13:30–13:38	S8-1	Investigation of inner ear trauma using three dimensional force measurement system <i>Ersin Avci (Hanover, Germany)</i>	
13:38–13:42	S8-2	New approaches to improve performance of cochlear implant electrode arrays <i>Robert Cowan (Melbourne, Australia)</i>	
13:42–13:46	S8-3	Concept and development of a new shape memory cochlear implant electrode <i>Omid Majdani (Hanover, Germany)</i>	
13:46–13:54	S8-4	Hydrogel-based self-bending mechanism for cochlear implants <i>Jan Stieghorst (Hanover, Germany)</i>	
13:54–13:58	S8-5	Mondini dysplasia: a new electrode designed for cochlear implantation <i>Javier Cervera (Madrid, Spain)</i>	
13:58–14:02	S8-6	Electrodes loaded with corticoids for cochlear implantation: impact on residual hearing <i>Dorothee Douchement (Lille, France)</i>	
14:02–14:10	S8-7	Carbon nanotube-based interfacing of neural structures <i>Katharina Tegtmeier (Hanover, Germany)</i>	
14:10–14:18	S8-8	NANO CI – first steps towards a gapless auditory nerve – cochlear implant interface <i>Pascal Senn (Bern, Switzerland)</i>	
14:18–14:22	S8-9	Concept of implanted probes for continuous ESRT measurements <i>Hans Wilhelm Pau (Rostock, Germany)</i>	
14:22–14:26	S8-10	Using an electro anatomical model of the human cochlea as a current spread predictor and implant positioning diagnostic tool <i>Joseph Giorgio (Sydney, Australia)</i>	
14:26–14:30	S8-11	A longitudinal study of frequency specific electrical stimulation levels in cochlear implant users <i>Gijung Im (Seoul, Korea)</i>	
14:30–14:38	S8-12	Predicting speech understanding and psychophysical tuning curves from focused thresholds and medial-lateral electrode distance <i>Zachary Smith (Centennial, United States)</i>	
14:38–14:42	S8-13	Further results with the HiFocus Mid-Scala electrode <i>Antje Aschendorff (Freiburg, Germany)</i>	
14:42–14:46	S8-14	Simultaneous bilateral implantation of freedom and 422 in children: is there equipose between the devices? <i>Sharon Cushing (Toronto, Canada)</i>	

	S9	SCIENTIFIC SESSION	► Kleiner Konzertsaal	
13:30–15:00 Kleiner Konzertsaal		Intraoperative/objective measurements II		
	Chair:	<i>Alejandro Rivas (Nashville, United States)</i> <i>Franco Trabalzini (Siena, Italy)</i>		
13:30–13:38	S9-1	Acoustic neural response telemetry: the clinical indications <i>William Gibson (Gladesville, Australia)</i>		
13:38–13:42	S9-2	Correlations in objective measures for adult CI users with the MED-EL Flex electrode receiving a hearing preservation surgical technique <i>Samidha Joglekar (Toronto, Canada)</i>		
13:42–13:46	S9-3	Correlation between cognitive auditory evoked potentials and speech perception tests in cochlear implant users <i>Oswaldo Cruz (São Paulo, Brazil)</i>		
13:46–13:50	S9-4	Correlation between per-operative electrically evoked auditory brainstem responses and auditory performance in adult cochlear implant users <i>Assia Terranti (Lille, France)</i>		
13:50–13:54	S9-5	Value of per and post-operative ECAP recordings in cochlear implanted children: correlations with fitting and performance <i>Thierry Van Den Abbeele (Paris, France)</i>		
13:54–13:58	S9-6	Correlation postoperative electrically evoked auditory brainstem responses correlation with subjective most comfortable levels in pediatric cochlear implant users <i>Vladimir Gaufrman (Krasnodar, Russia)</i>		
13:58–14:02	S9-7	Cochlear implant programming considerations for older adults or alternative methods for programming CI in older adults <i>Meredith Holcomb (Charleston, United States)</i>		
14:02–14:06	S9-8	Mismatch negativity (MMN) as a measure of central processing in children with CIs <i>Nadia Kamal (Cairo, Egypt)</i>		
14:06–14:14	S9-10	Cortical refractoriness measurement in cochlear implant listeners by means of auditory evoked potentials <i>Tim Liebscher (Erlangen, Germany)</i>		
14:14–14:18	S9-11	Use of acoustic change complex to estimate spectral discrimination thresholds on cochlear implant users with a single channel EEG approach <i>Alejandro Lopez Valdes (Dublin, Ireland)</i>		
14:18–14:22	S9-12	Telemetry changes over time in cochlear implant patients <i>Mohamed Shabana (Cairo, Egypt)</i>		
14:22–14:26	S9-13	The use of ASSR in the evaluation of the hearing preservation in cochlear implantations <i>Sabine Haumann (Hanover, Germany)</i>		
14:26–14:30	S9-14	Otoacoustic emissions in various degrees of partial deafness <i>Wiktor Jedrzejczak (Kajetany/Warsaw, Poland)</i>		
14:30–14:34	S9-15	Cortical auditory evoked potentials in cochlear implant users with auditory neuropathy spectrum disorder with normal and cochlear nerve deficiency <i>Orozimbo Costa (Bauru, Brazil)</i>		
14:34–14:38	S9-16	The effect of steroids on hearing preservation cochlear implantation – a tertiary implant center randomized controlled trial <i>Jafri Kuthubutheen (Toronto, Canada)</i>		

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	P1-3	ePOSTER SESSION	▶ ePoster 1	
13:30–15:00 ePoster 1		Hearing & structure preservation I For details view p. 90		
	P2-1	ePOSTER SESSION	▶ ePoster 2	
13:30–14:30 ePoster 2		Medical issues For details view p. 91		
	TB2	HANDS-ON WORKSHOP II	▶ Temporal Bone Lab	
13:30–15:00 Temporal Bone Lab		Temporal bone <i>Instructors:</i> Levent Olgun (Izmir, Turkey) Shin-Ichi Usami (Matsumoto, Japan) Neelam Vaid (Pune, India) <i>Tutors:</i> Julia Louza Lützner (Munich, Germany) Florian Schrotzlmair (Munich, Germany)		
	P2-2	ePOSTER SESSION	▶ ePoster 2	
14:30–16:30 ePoster 2		Middle ear implants For details view p. 92		

	S10	SCIENTIFIC SESSION	► Philharmonie 
15:00–16:30		CI in the elderly	
Philharmonie		<i>Chair: René Gifford (Nashville, United States) Thomas Lenarz (Hanover, Germany)</i>	
15:00–15:08	S10-1	Speech perception under adverse conditions and auditory localization in seniors <i>Uwe Baumann (Frankfurt, Germany)</i>	
15:08–15:16	S10-2	Speech perception in elderly CI listeners above the age of 75 years in quiet, in noise and in speech-modulated noise <i>Ulrich Hoppe (Erlangen, Germany)</i>	
15:16–15:28	S10-3	Impact of cochlear implantation on cognitive function in elderly CI recipients <i>Isabelle Mosnier (Paris, France)</i>	
15:28–15:32	S10-4	Increase of postop vestibular loss in elderly? <i>Andy Beynon (Nijmegen, Netherlands)</i>	
15:32–15:36	S10-5	Which ear should we choose for cochlear implantation in the elderly: “worse” or “better”? Audiometric and quality of life results <i>Luis Lassaletta (Madrid, Spain)</i>	
15:36–15:40	S10-6	Comparison of outcomes in postlocutive patients treated with cochlear implants before and after 60 years of age <i>Alicia Huarte (Pamplona, Spain)</i>	
15:40–15:44	S10-7	Cochlear implantation for elderly patients <i>Robert Trotic (Zagreb, Croatia)</i>	
15:44–15:48	S10-8	Elderly cochlear implant candidates maintain performance scores over long term follow-up: the Sunnybrook experience <i>Vincent Lin (Toronto, Canada)</i>	
15:48–15:52	S10-9	Development & validation of a cognitive screening test for the severely hearing impaired <i>Vincent Lin (Toronto, Canada)</i>	
15:52–15:56	S10-10	Auditory-cognitive processing in older adults with cochlear implants: electrophysiological and behavioral manifestations <i>Yael Henkin (Tel Aviv, Israel)</i>	
15:56–16:00	S10-11	Symptoms of dementia in addition to hearing loss in elderly CI candidates – contraindication for cochlear implantation? <i>Wolfram Pethe (Halberstadt, Germany)</i>	
16:00–16:04	S10-12	Objective and subjective performance development of the elderly with cochlea implant <i>Sandra Scholz (Potsdam, Germany)</i>	
16:04–16:08	S10-13	Acute effect of stimulation rate on speech recognition scores in young, middle-age, and older adult cochlear-implant users <i>Maureen Shader (College Park, United States)</i>	
16:08–16:18	S10-14	Does hearing intervention improve domains of cognitive function? A systematic review <i>Marcus Atlas (Perth, Australia)</i>	

	S11	SCIENTIFIC SESSION	► Carl-Orff-Saal	
15:00–16:00 Carl-Orff-Saal		Malformed cochlea		
		<i>Chair: Levent Sennaroglu (Ankara, Turkey) Barbara Wollenberg (Luebeck, Germany)</i>		
15:00–15:04	S11-1	An abnormally rotated cochlea: a condition diagnosed by studying the cochlear carotid angle on high resolution CT scan <i>Hassan Wahba (Cairo, Egypt)</i>		
15:04–15:08	S11-2	Different CI-mediated auditory brainstem responses observed in different types of the severe inner ear malformations <i>Hiroshi Yamazaki (Kyoto, Japan)</i>		
15:08–15:12	S11-3	Cochlear implantation in children with congenital inner ear malformation <i>Yumi Ohta (Suita, Japan)</i>		
15:12–15:16	S11-4	The surgical outcomes of cochlear implantation in children with incomplete partition type I <i>Yun Suk An (Seoul, Korea)</i>		
15:16–15:20	S11-5	Cochlear implantation in children with inner ear anomalies <i>Kenneth Lee (Dallas, United States)</i>		
15:20–15:24	S11-6	Cochlear implantation in children with CHARGE syndrome <i>Katsumi Doi (Osaka-Sayama, Japan)</i>		
15:24–15:28	S11-7	CHARGE syndrome and pediatric cochlear implant outcomes <i>Catherine Birman (Sydney, Australia)</i>		
15:28–15:32	S11-8	Cochlear implantation in cochlear anomalies and thin cochlear nerves <i>Shankar Medikeri (Bangalore, India)</i>		
15:32–15:36	S11-9	Outcomes of cochlear implants in children with anomalous cochlea-vestibular anomalies as compared to those with normal inner ear anatomy <i>Saumitra Shah (Surat, India)</i>		
15:36–15:40	S11-10	Outcomes of cochlear implantation in patients with Bony Cochlear Nerve Canal malformation <i>Kwang Sun Lee (Seoul, Korea)</i>		
15:40–15:44	S11-11	Use of special electrodes in malformed cochlea and the application of EABR in the decision of choosing the ear to be implanted <i>Manoj Puthiyaparambil (Calicut, India)</i>		
15:44–15:48	S11-12	Scalar position and speech perception outcomes of a Mid-Scala electrode <i>Chi Fai Tong (Shatin, Hong Kong)</i>		
15:48–15:52	S11-13	The application of the navigation during cochlear implantation surgery <i>Neylya Milesheina (Moscow, Russia)</i>		

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	S12	SCIENTIFIC SESSION	▶ Black Box	
15:00–15:45		Drug delivery		
Black Box		<i>Chair: Stephen O'Leary (Melbourne, Australia) Thomas Stark (Munich, Germany)</i>		
15:00–15:08	S12-1	Studies on the efficacy of dexamethasone-eluting electrodes and evaluation of potential risks <i>Thomas Stark (Munich, Germany)</i>		
15:08–15:16	S12-2	Mechanisms involved in loss of residual hearing post implantation and therapeutic implications <i>Adrien Eshraghi (Miami, United States)</i>		
15:16–15:20	S12-3	Evaluation of the systemic and intratympanic application of the selective glucocorticoid receptor agonist compound-A for ototoxic effects in a guinea-pig model <i>Clemens Honeder (Vienna, Austria)</i>		
15:20–15:24	S12-4	Long-term protective effects of neurotrophic treatment of the auditory nerve in deafened guinea pigs <i>Sjaak Klis (Utrecht, The Netherlands)</i>		
15:24–15:28	S12-5	Adipose tissue-derived stem cell (ASC) application enhances the survival of spiral ganglion neurons in vivo <i>Andreas Radeloff (Wuerzburg, Germany)</i>		
15:28–15:32	S12-6	On the way to the inner ear: nanoparticle-loaded thermosensitive drug delivery systems for treatment of inner ear diseases and traumata after cochlear implantation <i>Elisabeth Engleder (Vienna, Austria)</i>		
15:32–15:36	S12-7	Passive delivery of dexamethasone to the inner ear from a cochlear implant <i>Christopher Miller (Sydney, Australia)</i>		
15:36–15:40	S12-8	The NeuEar project: developing a neurotrophic cochlear implant for severe hearing loss <i>Jens Tornøe (Ballerup, Denmark)</i>		
15:40–15:44	S12-9	Role of antioxidants in saving inner ear anatomy and function <i>Abdulaziz Jifrey (Jeddah, Saudi Arabia)</i>		
	S13	SCIENTIFIC SESSION	▶ Chorprobensaal	
15:00–16:30		Development of implanted children incl. cognitive and social development & educational aspects		
Chorprobensaal		<i>Chair: Annerose Keilmann (Mainz, Germany) Ona Bo Wie (Oslo, Norway)</i>		
15:00–15:08	S13-1	Progressive hearing loss in children – diagnosis, referral & outcomes of cochlear implantation <i>David Strachan (Bradford, United Kingdom)</i>		
15:08–15:12	S13-2	The primary triangle: mother, father and infant. What happens when the child is prelingually deaf using a cochlear implant? <i>Ersilia Bosco (Rome, Italy)</i>		
15:12–15:16	S13-3	The effect of bilateral/bimodal cochlear implant use on speech perception, language and verbal cognition skills in children <i>Leo De Raeve (Zonhoven, Belgium)</i>		
15:16–15:20	S13-4	Cognition, perception and language development after three years of implantation for children <i>Aurore Berland (Toulouse, France)</i>		
15:20–15:28	S13-5	Progress of auditory and speech rehabilitation of CI children as compared to normally hearing group <i>Katarzyna Bierkowska (Krosno, Poland)</i>		
15:28–15:32	S13-6	Monitoring language, musical, motor and social-emotional skills using the musical journey resource <i>Claire Tollenaere (Ghent, Belgium)</i>		

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15:32–15:36	S13-7	Paragraph and sentence reading ability in children with cochlear implants <i>Che-Ming Wu (Taoyuan, Taiwan)</i>
15:36–15:44	S13-8	Developing the musical brain to boost early pre-verbal, communication and listening skills through a musical early intervention approach and resource, pre and post cochlear implantation, for babies and very young children (3 months – 24 months) <i>Christine Rocca (Newbury, United Kingdom)</i>
15:44–15:48	S13-9	Verbal and visuo-spatial working memory capacities of deaf children with a cochlear implant compared with their hearing peers <i>Stéphanie Pouyat-Houée (Angers, France)</i>
15:48–15:52	S13-10	Academic achievement of experienced CI children <i>Malgorzata Zgodna (Kajetany/Warsaw, Poland)</i>
15:52–15:56	S13-11	Low empathy in hearing-impaired (pre)adolescents compared to normally hearing controls <i>Anouk P. Netten (Leiden, The Netherlands)</i>
15:56–16:00	S13-12	Are our school systems ready to take on cochlear implanted children – the Indian perspective? <i>Neelam Vaid (Pune, India)</i>
16:00–16:04	S13-13	Exploring the impact of cochlear implants (CIs) upon educational progress and inclusive education of deaf pupils and what are factors that affect the benefits of CIs at primary school in Saudi Arabia from parents, teachers and clinicians perceptions and experiences <i>Mohammed Albanyan (York, United Kingdom)</i>
16:04–16:08	S13-14	Cochlear implant pediatric prognostic index (CIPPI) – a review of factors that affect pediatric cochlear implantation outcomes <i>Jane Black (Brisbane, Australia)</i>
16:08–16:12	S13-15	Screening children from families at social risk with the LittleEARS® (MED-EL) auditory questionnaire – is the development of early listening skills affected? Abstract <i>Karolin Schäfer (Cologne, Germany)</i>
16:12–16:20	S13-16	Developing the competences of written German by children with cochlear implants <i>Gottfried Diller (Heidelberg, Germany)</i>

S14 SCIENTIFIC SESSION

▶ Vortragssaal der Bibliothek



15:00–16:30		Sound processing
Vortragssaal der Bibliothek	<i>Chair:</i>	<i>Johan Frijns (Leiden, The Netherlands)</i> <i>Werner Hemmert (Garching, Germany)</i>
15:00–15:04	S14-1	Spatial speech understanding in the presence of a single interferer: informational and energetic considerations with bilateral cochlear implants <i>Aswin Wijetillake (Melbourne, Australia)</i>
15:04–15:08	S14-2	Speech recognition skills in quiet and in noise background and satisfaction in users of Neurelec Digisonic SP Binaural cochlear implant <i>Luiz Schuch (Campinas, Brazil)</i>
15:08–15:12	S14-3	Predicting cochlear implant recipient benefits from noise reduction <i>Stefan Mauger (Melbourne, Australia)</i>
15:12–15:16	S14-4	Cochlear implant performance using multi-microphone noise reduction in adverse conditions involving reverberation and microphone mismatch <i>Adam Hersbach (Melbourne, Australia)</i>
15:16–15:20	S14-5	Evaluation of ClearVoice with digital adaptive remote microphone technology <i>Jace Wolfe (Oklahoma City, United States)</i>
15:20–15:28	S14-6	Coding of interaural time differences with fine structure coding strategies <i>Lide González (Hanover, Germany)</i>
15:28–15:32	S14-7	Speech performance and sound localization in a complex noisy environment: comparison between patients sequentially and simultaneously implanted <i>Isabelle Mosnier (Paris, France)</i>

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15:32–15:40	S14-8	Enhancement of envelopes to improve localization performance of cochlear implant users <i>Bernhard Seeber (Munich, Germany)</i>
15:40–15:44	S14-9	Speech perception in noise with F0mod, a cochlear implant pitch coding strategy <i>Tom Francart (Leuven, Belgium)</i>
15:44–15:48	S14-11	Application of a test measuring frequency modulation difference limen as a tool to assess processing of temporal fine structure information in cochlear implant patients <i>Agnieszka Majchrzak (Kajetany/Warsaw, Poland)</i>
15:48–15:56	S14-12	Effects of pulse polarity on temporal interactions: detection thresholds and loudness growth functions <i>Olivier Macherey (Marseille, France)</i>
15:56–16:00	S14-13	Effect of place of stimulation on rate pitch perception <i>Vijay Marimuthu (Kuantan, Malaysia)</i>
16:00–16:08	S14-14	An explanation for lower threshold levels using anodic stimulation of the human auditory nerve from computational modelling <i>Johan Frijns (Leiden, The Netherlands)</i>
16:08–16:16	S14-15	The perception of spectral irregularity with fine structure coding strategies <i>Verena Pyschny (Cologne, Germany)</i>

RT4 ROUND TABLE

▶ Kleiner Konzertsaal

**15:00–16:30**Kleiner
Konzertsaal**Cholesteatoma, chronic otitis and CI**

Chair & Moderation: *Per Caye-Thomasen (Copenhagen, Denmark)*
Stefan Dazert (Bochum, Germany)

Panelists: *Caglar Batman (Istanbul, Turkey)*
Robert Briggs (Melbourne, Australia)
Bruce Gantz (Iowa City, United States)
Yongxin Li (Beijing, China)
Levent Olgun (Izmir, Turkey)
Heidi Olze (Berlin, Germany)
Christopher Raine (Bradford, United Kingdom)
Thomas Stark (Munich, Germany)
Haruo Takahashi (Nagasaki, Japan)
Andrej Zarowski (Wilrijk, Belgium)

P1-4 ePOSTER SESSION

▶ ePoster 1

**15:00–16:30**

ePoster 1

Hearing & structure preservation II

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TB3 HANDS-ON WORKSHOP III

▶ Temporal Bone Lab

**15:00–16:30**Temporal Bone
Lab**Temporal bone**

Instructors: *Wolf Dieter Baumgartner (Vienna, Austria)*
Wolfgang Elsaesser (Feldkirch, Austria)
Joachim Müller (Munich, Germany)

Tutors: *Ulrich Kisser (Munich, Germany)*
Martin Patscheider (Munich, Germany)

S16 SCIENTIFIC SESSION		► Black Box	
15:45–16:30 Black Box	Hearing implants in the military		
	<i>Chair: Roland Jacob (Koblenz, Germany) Mark Packer (Lackland, United States)</i>		
15:45–15:49	S16-1	Single-sided deafness: an initial examination of cochlear implants in the military <i>Joshua Bernstein (Bethesda, United States)</i>	
15:49–15:53	S16-2	Hearing with cochlea implant in military flight personal (case report) <i>Roland Jacob (Koblenz, Germany)</i>	
15:53–16:01	S16-3	Middle ear implants helping soldiers return to duty <i>Mark Packer (Lackland, United States)</i>	
16:01–16:05	S16-3	Electromagnetic compatibility of cochlear implant with C-97 aircraft <i>Julliana Caldeira (São Paulo, Brazil)</i>	
16:05–16:09	S16-4	Functional magnetic resonance imaging evidence of middle-ear kinesthesia involvement in tinnitus: implication for implantable device <i>Agnès Job (Bretigny sur Orge, France)</i>	
16:09–16:13	S16-5	Vocational rehabilitation of soldiers: what we can learn for civilian life <i>Yvonne Stelzig (Koblenz, Germany)</i>	
S15 SCIENTIFIC SESSION		► Carl-Orff-Saal	
16:00–16:30 Carl-Orff-Saal	Hearing and structure preservation		
	<i>Chair: Silke Helbig (Frankfurt, Germany) Gunesh Rajan (Fremantle, Australia)</i>		
16:00–16:10	S15-1	Hearing preservation classification <i>Artur Lorens (Kajetany/Warsaw, Poland)</i>	Invited talk
16:10–16:14	S15-2	Key factors to preserve residual hearing in round window approach for cochlear implantations <i>Yun-Hoon Choung (Suwon, Korea)</i>	
16:14–16:22	S15-3	Long-term hearing preservation in electric-acoustic stimulation patients, up to 10 years <i>Griet Mertens (Edegem, Belgium)</i>	
16:22–16:26	S15-4	Hybrid vs. traditional cochlear implant voices, melody and instrument recognition in noise <i>Italo Cantore (Potenza, Italy)</i>	
16:30–17:00	Coffee break		

	RT5	ROUND TABLE	► Philharmonie 
17:00–18:45		The beauty of the cochlea	
Philharmonie		<i>Chair & Moderation:</i> Peter Roland (Dallas, United States) Hinrich Staecker (Kansas City, United States)	
17:00–17:15	RT5-1	Human cochlea and CI Helge Rask Andersen (Uppsala, Sweden)	
17:15–17:25	RT5-2	TBA Peter Roland (Dallas, United States)	
17:25–17:33	RT5-3	Imaging of the membranous labyrinth in healthy and Meniere's disease ear Hideo Yamane (Osaka, Japan)	
17:33–17:37	RT5-4	Imaging of the cochlea Birgit Ertl-Wagner (Munich, Germany)	
17:37–17:45	RT5-5	3-D reconstruction and measurements of cochlea and surrounding structures relating to CI Haruo Takahashi (Nagasaki, Japan)	
17:45–17:49	RT5-6	On human Round Window anatomy, "hook" structure and cochlear implantation – is the human Round Window really round? Francesca Atturo (Rome, Italy)	
17:49–17:57	RT5-7	Hearing preservation cochlear implantation and electrode insertion Shin-Ichi Usami (Matsumoto, Japan)	
17:57–18:05	RT5-8	Electrode insertion: the unknown, that the surgeon usually doesn't see Greg Eigner Jablonski (Oslo, Norway)	
18:05–18:09	RT5-9	Electrodes inside the cochlea Silke Helbig (Frankfurt, Germany)	
18:09–18:17	RT5-10	The visible ear simulator 1.3/2.0: a virtual temporal bone microdissection training simulator Mads Sørensen (Copenhagen, Denmark)	

	RT6	ROUND TABLE	► Carl-Orff-Saal 
17:00–18:45		What can we learn from the experts	
Carl-Orff-Saal		<i>Chair & Moderation:</i> Abdulrahman Hagr (Riyadh, Saudi Arabia) Roland Jacob (Koblenz, Germany)	
		<i>Panelists:</i> Antje Aschendorff (Freiburg, Germany) Wolf-Dieter Baumgartner (Vienna, Austria) Bernard Gil Fraysse (Toulouse, France) Bruce Gantz (Iowa City, United States) John Martin Hempel (Munich, Germany) Gerry O'Donoghue (Nottingham, United Kingdom) Harold Pillsbury (Chapel Hill, United States) Milan Profant (Bratislava, Slovakia) Henryk Skarzynski (Warsaw, Poland) Hassan Wahba (Cairo, Egypt)	

	S17	SCIENTIFIC SESSION	► Black Box	
17:00–18:45		Hearing and structure preservation		
Black Box		<i>Chair: Jan Kiefer (Munich, Germany) Craig Buchman (Chapel Hill, United States)</i>		
17:00–17:04	S17-1	Younger age is a positive prognostic factor for residual hearing preservation in conventional cochlear implantation <i>Andreas Anagnostos (Cologne, Germany)</i>		
17:04–17:08	S17-2	Residual hearing preservation with full length electrode insertion in 129 consecutive adult cochlear implant recipients <i>Joseph Chen (Toronto, Canada)</i>		
17:08–17:12	S17-3	Hearing preservation after partial deafness cochlear implantation with cochlear Nucleus CI 422 electrode in children and adults with substantial residual hearing <i>Monika Matusiak (Warsaw, Poland)</i>		
17:12–17:16	S17-4	Deep insertion– round window approach for hearing preservation surgery by using soft electrodes: Flex EAS, Flex soft, Flex M <i>Monika Matusiak (Warsaw, Poland)</i>		
17:16–17:20	S17-5	Preservation of residual hearing with a full insertion of regular length electrode array (Digisonic SP-Neurelec) <i>Thierry Mom (Clermont-Ferrand, France)</i>		
17:20–17:24	S17-6	Residual hearing preservation following adult cochlear implantation <i>Eldre Beukes (Cambridge, United Kingdom)</i>		
17:24–17:28	S17-7	Sunnybrook experience with hearing preservation: comparing electrode lengths and depths of insertion <i>Vincent Lin (Toronto, Canada)</i>		
17:28–17:32	S17-9	Immediate and delayed hearing loss secondary to cochlear implantation in an animal model <i>Joseph Attias (Haifa, Israel)</i>		
17:32–17:36	S17-10	Endolymphatic hydrops is prevalent early after cochlear implantation <i>Stephen O'Leary (Melbourne, Australia)</i>		
17:36–17:40	S17-11	Determinants of delayed hearing loss after cochlear implant <i>Stephen O'Leary (Melbourne, Australia)</i>		
17:40–17:44	S17-12	Hearing preservation and electroacoustic stimulation: Melbourne experience with the CI422 electrode <i>Robert Briggs (Melbourne, Australia)</i>		
17:44–17:48	S17-14	Hearing preservation in cochlear implantation using FLEX-electrodes <i>Thomas Stark (Munich, Germany)</i>		
17:48–17:56	S17-15	Is there an optimal range of electrode array insertion angles for electric-alone stimulation? <i>Paul Boyd (Manchester, United Kingdom)</i>		
17:56–18:00	S17-16	The effects of extended preoperative systemic steroids in hearing preservation cochlear implantation <i>Jafri Kuthubutheen (Toronto, Canada)</i>		
18:00–18:04	S17-17	Using the cochlear implant electrode for intraoperative hearing monitoring during cochlear implantation – early experiences <i>Aanand Acharya (Fremantle, Australia)</i>		
18:04–18:08	S17-18	Intracochlear pressure changes due to round window opening – observations in a model <i>Philipp Mittmann (Berlin, Germany)</i>		
18:08–18:12	S17-19	Comparison of round window membrane sealants following cochlear implantation associated with a low frequency delayed threshold shift in a guinea pig model of cochlear implantation <i>David Rowe (Melbourne, Australia)</i>		

SCIENTIFIC PROGRAM

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DETAILED PROGRAM

18:12–18:16	S17-20	Delayed low frequency hearing loss following round window intervention in an animal model of cochlear implantation <i>David Rowe (Melbourne, Australia)</i>
18:16–18:24	S17-21	Hearing preservation cochlear implantation – the influence of electrode length and design <i>Thomas Lenarz (Hanover, Germany)</i>
18:24–18:28	S17-22	Thinking in future reimplantations: experimental study on hearing preservation after cochlear implantation in normal-hearing experimental animals <i>Jorge De Abajo (Pamplona, Spain)</i>
18:28–18:36	S17-23	Residual hearing preservation in multichannel cochlear implanted patients <i>Oswaldo Cruz (São Paulo, Brazil)</i>
18:36–18:40	S17-24	Cochlear implantation in the mouse: functional and histological outcomes <i>Nina Mistry (London, United Kingdom)</i>

S18 SCIENTIFIC SESSION

▶ Chorprobensaal

**17:00–18:45**

Chorprobensaal

Accompanying modalities: awareness, self-helping rehabilitation, self-helping groups to support performance, support & aftercare, assistive listening devices, growing populations

Chair: *Piotr Skarzynski (Warsaw, Poland)*
Christian Streitberger (Meran, Italy)

17:00–17:08	S18-1	Empowered parents by the Muenster parental program – feedback from parents <i>Reinhild Glanemann (Muenster, Germany)</i>
17:08–17:12	S18-2	Parents and professionals working together in establishing qualitative rehabilitation for hearing impaired children <i>Lone Percy-Smith (Hellerup, Denmark)</i>
17:12–17:16	S18-3	Role of parents in their child's auditory habilitation process <i>Helena Alves (Coimbra, Portugal)</i>
17:16–17:20	S18-4	Bilateral cochlear implantation for hearing-impaired children: criterion of candidacy derived from an observational study <i>Deborah Vickers (London, United Kingdom)</i>
17:20–17:24	S18-5	Referring for a cochlear implant assessment in the UK, do the referrers know the criteria? <i>Helen Atkinson (Bradford, United Kingdom)</i>
17:24–17:32	S18-6	Evaluation of deafened adults with eye tracking technology – preliminary results on 72 subjects <i>Emilie Ernst (Paris, France)</i>
17:32–17:36	S18-7	Music therapy as specific and complementary training in the early rehabilitation of adult CI users <i>Elisabeth Hutter (Heidelberg, Germany)</i>
17:36–17:44	S18-8	Musical rehabilitation in adult cochlear implant recipients with a self-administered software: MusicEAR <i>Leah Smith (Toronto, Canada)</i>
17:44–17:52	S18-9	Skype™ offers a better speech perception for cochlear implant users compared to conventional telephony <i>Georgios Mantokoudis (Bern, Switzerland)</i>
17:52–17:56	S18-10	Cochlear™ wireless accessories for cochlear implant recipients with residual hearing using Nucleus® 6 sound processors <i>Chris James (Toulouse, France)</i>
17:56–18:00	S18-11	FM/Wireless technology use by young people (11–19 years) with a hearing loss <i>Imran Mulla (Nottingham, United Kingdom)</i>
18:00–18:08	S18-12	The near future of induction loop systems in public rooms <i>Hannes Seidler (Dresden, Germany)</i>

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DETAILED PROGRAM

18:08–18:12	S18-13	Redefining the borders: stretching the criteria for pediatric benefit from cochlear implantation for 2014 <i>Yetta Abrahams (Sydney, Australia)</i>
18:12–18:16	S18-14	Exploring views on current and future cochlear implant service delivery: the voices of users, parents and professionals at cochlear implant centres and in the community <i>Sheetal Athalye (Nottingham, United Kingdom)</i>
18:16–18:20	S18-15	Exploring experiences of adults not selected for cochlear implantation <i>Sheetal Athalye (Nottingham, United Kingdom)</i>
18:20–18:24	S18-16	The relationship between UNHS and the diagnosis age, intervention age of deaf children with cochlear implant <i>Hao Wu (Shanghai, China)</i>
18:24–18:28	S18-17	The project HD5090 – reference data for hearing devices <i>Frans Coninx (Solingen, Germany)</i>
18:28–18:32	S18-18	Beat the silence <i>Anke Leichtle (Luebeck, Germany)</i>

S21 SCIENTIFIC SESSION

▶ Vortragssaal der Bibliothek



17:00–18:45 Vortragssaal der Bibliothek		Speech coding <i>Chair: Stefan Brill (Wuerzburg, Germany) Norbert Dillier (Zurich, Switzerland)</i>
17:00–17:04	S21-1	Optimizing channel selection in sequential stimulation; Early results of a novel n-of-M type coding strategy <i>Bas van Dijk (Mechelen, Belgium)</i>
17:04–17:08	S21-2	Comparing the coding strategies of Crystalis and Crystalis XDP (Neurelec) <i>Marlene Kessler (Aalen, Germany)</i>
17:08–17:12	S21-3	Assessment of musical sound quality in MED-EL cochlear implant users: a comparison between fine structure processing and HDCIS strategies <i>Alexis Roy (Baltimore, United States)</i>
17:12–17:16	S21-4	FS4 high rate – speech perception and listening experience with the new high rate setting of the FS4 speech coding strategy <i>Dominik Riss (Vienna, Austria)</i>
17:16–17:20	S21-5	Perception of unresolved harmonics processed by fine structure coding strategies in CI users <i>Katrin Fürsen (Cologne, Germany)</i>
17:20–17:24	S21-6	Cochlear implants with single and multi-channel automatic gain control <i>Patrick Boyle (Hanover, Germany)</i>
17:24–17:28	S21-7	A numerical investigation of the effect of pulse width coding vs. pulse amplitude coding in different stimulation modes <i>Jonathan Laudanski (Sophia-Antipolis, France)</i>
17:28–17:32	S21-8	The effect of stimulation field spread on cochlear implant users' pitch ranking performance: a model-based investigation <i>Nafise N. Erfanian Saeedi (Melbourne, Australia)</i>
17:32–17:36	S21-9	Evaluation of temporal masking in a cochlear implant speech processing strategy: TPACE <i>Eugen Kludt (Hanover, Germany)</i>
17:36–17:40	S21-10	Relevance of high frequencies for speech recognition in noise <i>María Pérez Zaballos (Las Palmas, Spain)</i>
17:40–17:48	S21-11	Mismatch between electrical stimulation map and cochlear place frequency map delays and decreases speech perception with cochlear implant <i>Frederic Venail (Montpellier, France)</i>

17:48–17:56	S21-12	Understanding noise in speech: a new hypothesis to explain the lack of masking release in CI users <i>Andrew Oxenham (Minneapolis, United States)</i>
17:56–18:00	S21-13	Speech perception in noise with fine structure coding strategies <i>Andrea Kleine Punte (Edegem, Belgium)</i>
18:00–18:04	S21-14	Evaluation of sound localization performance of normal hearing and cochlear implant listeners <i>Christian Wirtz (Starnberg, Germany)</i>
18:04–18:12	S21-15	Quantitative evaluation of fine structure coding in cochlear implants <i>Werner Hemmert (Garching, Germany)</i>
18:12–18:20	S21-16	A new stimulation mode: the virtual tripole <i>Monica Padilla (New York, United States)</i>
18:20–18:24	S21-17	The use of partial bipolar stimulation in cochlear implants to create spectral channels apical to the stimulated electrode pair <i>Jeroen Briaire (Leiden, The Netherlands)</i>
18:24–18:32	S21-18	Stimulation of the apical cochlear region: influence on speech understanding and subjective preference <i>Stefan Brill (Wuerzburg, Germany)</i>
18:32–18:36	S21-19	Reducing electrical interaction during parallel stimulation using various compensation techniques <i>Johan Frijns (Leiden, Netherlands)</i>
18:36–18:40	S21-20	Enhanced sound coding for the perception of prosody by cochlear implant users <i>Chris James (Toulouse, France)</i>
18:40–18:44	S21-21	An application of pitch-envelope analysis for speech encoding and transposition <i>Oleg Belov (Moscow, Russia)</i>
18:44–18:52	S21-22	Perceptual consequences of listening experience with novel auditory stimulation <i>Zachary Smith (Centennial, United States)</i>

S22 SCIENTIFIC SESSION

▶ Kleiner Konzertsaal



17:00–18:45 Kleiner Konzertsaal		Difficult and atypical patients, challenging situations, borderline cases, CI for children in deaf families
	<i>Chair:</i>	<i>Abdulmonem H. Al Shaikh (Jeddah, Saudi Arabia)</i> <i>Dirk Mürbe (Dresden, Germany)</i>
17:00–17:08	S22-1	CI provision for children of deaf parents – a research program <i>Annette Leonhardt (Munich, Germany)</i>
17:08–17:20	S22-2	Ludwig van Beethoven A CI candidate; wrong timing. A biography of his deafness <i>Mokhtar Bassiouni (Alexandria, Egypt)</i>
17:20–17:24	S22-3	Somatosensorial perception with Cochlear Implant stimulation in adults with prelingual deafness <i>Norma Pallares (Buenos Aires, Argentina)</i>
17:24–17:28	S22-4	Benefits of cochlear implantation in prelingual adult patients with long-term deafness (twenty years or more) <i>Veronica Del Vecchio (Buenos Aires, Argentina)</i>
17:28–17:32	S22-5	Cochlear implantation outcomes in older children with prelingual deafness: should we be saying no? <i>Nina Mistry (London, United Kingdom)</i>
17:32–17:36	S22-6	Late cochlear implant <i>Marcela Barros (San Isidro, Argentina)</i>
17:36–17:40	S22-7	Case study of a congenitally deafened cochlear implant recipient <i>Janet Kenyon (Canberra, Australia)</i>

17:40–17:44	S22-9	Screening for Usher Syndrome in children with sensorineural hearing loss: the importance of vestibular and balance assessment <i>Sharon Cushing (Toronto, Canada)</i>
17:44–17:48	S22-10	Clinical findings before and after cochlear implantation in a patient with Susac Syndrome <i>Jon Shallop (Rochester, United States)</i>
17:48–17:52	S22-11	Profound sudden sensorineural hearing loss in patients diagnosed with superficial siderosis of the central nervous system (SSCN) <i>Jon Shallop (Rochester, United States)</i>
17:52–17:56	S22-12	Outcomes of cochlear implantation in auditory neuropathy spectrum disorder <i>Jayesh Doshi (Manchester, United Kingdom)</i>
17:56–18:00	S22-13	Hypoplastic and aplastic cochlear nerves: is cochlear implantation a viable option? <i>Sevina Tzortzis (Birmingham, United Kingdom)</i>
18:00–18:04	S22-14	Contributions of transtympanic promontory EABR (TEABR) in patients with congenital temporal bone and cochlear nerve anomalies <i>Paul Kileny (Ann Arbor, United States)</i>
18:04–18:08	S22-15	Cochlear implantation in patient with dual diagnosis of hearing loss and autism <i>Adrien Eshraghi (Miami, United States)</i>
18:08–18:12	S22-16	Stimulation rate reduction and auditory development in poorly performing cochlear implant users with auditory neuropathy. <i>Marc Bennett (Nashville, United States)</i>
18:12–18:16	S22-17	Pushing the boundaries: is it ever too late for an implant? <i>Susan Fields (Cambridge, United Kingdom)</i>

P1-5 ePOSTER SESSION

▶ ePoster 1

**17:00–18:45**

ePoster 1

Rehabilitation

For details view p. 94

P2-3 ePOSTER SESSION

▶ ePoster 2

**17:00–18:45**

ePoster 2

Fitting

For details view p. 95

TB4 HANDS-ON WORKSHOP IV

▶ Temporal Bone Lab

**17:00–18:45**

Temporal Bone Lab

Temporal bone

Instructors: *Iain Bruce (Hamilton, Canada)*
Javier Gavilán (Madrid, Spain)

Tutors: *Ulrich Kissner (Munich, Germany)*
Julia Louza Lützner (Munich, Germany)

SCIENTIFIC PROGRAM

FRIDAY | JUNE 20, 2014

PROGRAM OVERVIEW

	Philharmonie	Carl-Orff-Saal 	Black Box 	Chorprobensaal
08:00		T5 07:30–08:30 Bonebridge™ and Vibrant Soundbridge® in Canal Wall Up and Canal Wall Down ▶ see page 50	T6 07:30–08:30 Instructional course: Assessment of auditory performance according to minimal outcome measurements in cochlear implantation ▶ see page 50	T7 07:30–08:30 Radiology ▶ see page 50
09:00	KN3 08:30–10:00 Binaural hearing ▶ see page 51			
10:00	Coffee break			
11:00	RT7 10:30–12:30 New indications ▶ see page 51	S23 10:30–12:30 Bone conducting hearing devices ▶ see page 52	S24 10:30–12:30 Speech testing (in adverse listening conditions, testing across languages) ▶ see page 53	S25 10:30–12:30 Radiology ▶ see page 54
12:00				
13:00	Lunch break			
14:00	RT8 13:30–15:00 Bilateral cochlear implants ▶ see page 56	S26 13:30–15:00 Active middle ear implants ▶ see page 57	S27 13:30–15:00 Fitting I ▶ see page 58	S28 13:30–15:00 Various aspects of binaural hearing ▶ see page 58
15:00	RT9 15:00–16:30 Hearing & structure preservation ▶ see page 60	S29 15:00–16:30 Outcomes ▶ see page 61	S30 15:00–16:30 Single sided deafness (SSD) ▶ see page 62	S31 15:00–16:30 Young children ▶ see page 63
16:00				
17:00	Coffee break			
18:00	RT10 17:00–18:45 Auditory brainstem implants (ABI) & beyond ▶ see page 65	S32 17:00–18:45 Surgical and non-surgical complications ▶ see page 66	S33 17:00–18:45 Fitting II ▶ see page 67	S34 17:00–18:45 Snapshot presentations on health economics and panel discussion ▶ see page 68

Vortragssaal der Bibliothek 	ePoster 1	ePoster 2	Temporal Bone Lab	
T8 07:30–08:30 Endoscopic ear surgery ▶ see page 50				08:00
				09:00
Coffee break				10:00
WS1 10:30–12:30 Peripheral models and their use in developing coding strategies ▶ see page 55	P1-6 10:30–11:30 Outcomes adults ▶ see page 97	P2-4 10:30–12:30 Objective measures ▶ see page 99	Hands-on Workshop V 10:30–12:30 Temporal bone ▶ see page 55	11:00
	P1-7 11:30–12:30 Outcomes children ▶ see page 101			12:00
Lunch break				13:00
WS2 13:30–14:45 Peripheral models and their use in developing coding strategies (continued) ▶ see page 59	P1-8 13:30–15:00 Surgical issues: revision/re-implantation, malformation & robotic surgery ▶ see page 103	P2-5 13:30–15:00 Cochlear implants around the world ▶ see page 104	Hands-on Workshop VI 13:30–15:00 Temporal bone ▶ see page 59	14:00
WS3 14:45–16:30 Binaural hearing with electric stimulation – the “Munich Center for NeuroSciences – Brain and Mind” session ▶ see page 60	P1-9 15:00–16:30 Difficult patients, atypical or challenging situations ▶ see page 105	P2-6 15:00–16:30 Bimodal/binaural hearing ▶ see page 107	Hands-on Workshop VII 15:00–16:30 Temporal bone ▶ see page 64	15:00
				16:00
Coffee break				17:00
WS4 17:00–18:45 Improving speech perception with cochlear implants using model-based approaches ▶ see page 69	P1-10 17:00–18:45 Rehabilitation for children – speech production, speech perception ▶ see page 107	P2-7 17:00–18:00 Cochlear implants in the elderly ▶ see page 109	Hands-on Workshop VIII 17:00–18:45 Temporal bone ▶ see page 69	18:00
		P2-9 18:00–18:30 Music therapy ▶ see page 109		18:00

T: TUTORIAL
KN: KEYNOTE LECTURE
S: SCIENTIFIC SESSION

VS: VIDEO SESSION
WS: BERNSTEIN SPARKS WORKSHOP
P: ePOSTER SESSION

SAT: SATELLITE SYMPOSIUM
RT: ROUND TABLE
OTHERS

SCIENTIFIC PROGRAM

FRIDAY | JUNE 20, 2014

DETAILED PROGRAM

		T5	TUTORIAL	► Carl-Orff-Saal	
07:30–08:30	Carl-Orff-Saal		Bonebridge™ and Vibrant Soundbridge® in Canal Wall Up and Canal Wall Down <i>Supported by MED-EL</i>		
		Chair:	<i>Peter Grasso (Innsbruck, Austria)</i>		
		Tutors:	<i>Giuseppe Nicolò Frau (Rovereto, Italy)</i> <i>Georg Sprinzl (St. Poelten, Austria)</i>		
		T6	TUTORIAL	► Black Box	
07:30–08:30	Black Box		Instructional course: assessment of auditory performance according to minimal outcome measurements in cochlear implantation <i>A contribution of the HEARRING group</i>		
		Chair:	<i>Paul Van de Heyning (Antwerp, Belgium)</i>		
		Speakers:	<i>Iain Bruce (Manchester, United Kingdom)</i> <i>Artur Lorens (Kajetany/Warsaw, Poland)</i> <i>Griet Mertens (Edegem, Belgium)</i> <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
		Panelists:	<i>Gunnar Eskilsson (Stockholm, Sweden)</i> <i>Javier Gavilán (Madrid, Spain)</i> <i>Martin Kompis (Bern, Switzerland)</i> <i>Artur Lorens (Kajetany/Warsaw, Poland)</i> <i>Manoj Manikoth (Calicut, India)</i> <i>Henryk Skarzynski (Warsaw, Poland)</i> <i>Kurt Stephan (Innsbruck, Austria)</i>		
		T7	TUTORIAL	► Chorprobensaal	
07:30–08:30	Chorprobensaal		Radiology		
		Chair:	<i>Aarno Dietz (Kuopio, Finland)</i> <i>Dirk Mürbe (Dresden, Germany)</i>		
07:30–07:50		T7-1	Imaging of the cochlea – the radiologists view <i>Birgit Ertl-Wagner (Munich, Germany)</i>		
07:50–08:10		T7-2	Reading Ct and MRI – the ENT's view <i>Hassan Wahba (Cairo, Egypt)</i>		
08:10–08:30		T7-3	Discussion		
		T8	TUTORIAL	► Vortragssaal der Bibliothek	
07:30–08:30	Vortragssaal der Bibliothek		Endoscopic ear surgery <i>Supported by Spiggle & Theis Medizintechnik</i>		
		Chair:	<i>Stefan Dazert (Bochum, Germany)</i> <i>Livio Presutti (Modena, Italy)</i>		
07:30–07:45		T8-1	Anatomy of the round window <i>Daniele Marchioni (Modena, Italy)</i>		
07:45–08:00		T8-2	Endoscopic otosurgery <i>Livio Presutti (Modena, Italy)</i>		
08:00–08:10		T8-3	Endoscopic CI – a call for caution <i>Muaaz Tarabichi (Dubai, United Arab Emirates)</i>		
08:10–08:30		T8-4	Discussion		

KN3 KEYNOTE SESSION		► Philharmonie	
08:30–10:00	Binaural hearing		
Philharmonie	Chair: <i>Daniel Visser (Munich, Germany)</i> <i>Blake Wilson (Durham, United States)</i>		
08:30–08:35	KN3-1 Introduction		
08:35–09:00	KN3-2 Congenital single-sided deafness affects aural preference and binaural processing <i>Andrej Kral (Hanover, Germany)</i>		
09:00–09:20	KN3-3 Binaural processing and spatial hearing: it's all relative <i>Benedikt Grothe (Planegg-Martinsried, Germany)</i> <i>Michael Pecka (Munich, Germany)</i>		
09:20–09:50	KN3-4 Listening in acoustically adverse conditions: models and algorithms <i>Jens Blauert (Bochum, Germany)</i> <i>Rainer Martin (Bochum, Germany)</i>		
09:50–10:00	KN3-5 Burian-Helms Award ceremony		
10:00–10:30	Coffee break		
RT7 ROUND TABLE		► Philharmonie	
10:30–12:30	New indications (structured round table)		
Philharmonie	Chair & Moderation: <i>Roland Laszig (Freiburg, Germany)</i> <i>Henryk Skarzynski (Warsaw, Poland)</i>		
10:30–10:45	RT7-1 From concept to therapy <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
10:45–11:00	RT7-2 Cochlear implantation as hearing rehabilitation method in single-sided deafness after acoustic neuroma surgery with intracochlear placeholder insertion <i>Roland Laszig (Freiburg, Germany)</i>		
11:00–11:15	RT7-3 Partial deafness CI in children <i>Henryk Skarzynski (Warsaw, Poland)</i>		
11:15–11:23	RT7-4 Nucleus® cochlear implants for patients with severe tinnitus and asymmetric hearing loss <i>Ángel Ramos Macías (Las Palmas, Spain)</i>		
11:23–11:27	RT7-5 Conception and long term results of hearing rehabilitation by cochlear implantation in single sided deafness after translabyrinthine approach to the skull-base <i>Thomas Klenzner (Duesseldorf, Germany)</i>		
11:27–11:35	RT7-6 Hearing preservation, hybrid stimulation, and speech understanding in an expanded indication study: preliminary results <i>Craig Buchman (Chapel Hill, United States)</i>		
11:35–11:39	RT7-7 Ipsilateral simultaneous cochlear implantation in vestibular schwannoma resection with normal contralateral hearing <i>Marimar Medina (Piacenza, Italy)</i>		
11:39–11:43	RT7-8 Ipsilateral cochlear implantation in patients with NF 2 and sporadic vestibular schwannoma in the only hearing ear <i>Antonio Caruso (Piacenza, Italy)</i>		
11:43–11:47	RT7-9 Hearing preservation and hearing rehabilitation in acoustic neuroma <i>Elisabetta Zanoletti (Padova, Italy)</i>		
11:47–11:51	RT7-10 Cochlear implantation and simultaneous labyrinthectomy in Meniere's disease <i>Giuseppe Frau (Rovereto, Italy)</i>		
11:51–11:55	RT7-11 Outcomes following cochlear implantation for patients with single sided deafness, including those with recalcitrant Ménière's disease <i>Bruce Gantz (Iowa City, United States)</i>		
11:55–11:59	RT7-12 Is "no response" on diagnostic auditory brainstem response testing an indication for cochlear implantation in children? <i>Craig Buchman (Chapel Hill, United States)</i>		

	S23	SCIENTIFIC SESSION	► Carl-Orff-Saal	
10:30–12:30 Carl-Orff-Saal		Bone conducting hearing devices		
		<i>Chair: Jean Pierr Lavielle (Marseille, France) Christoph Matthias (Mainz, Germany)</i>		
10:30–10:38	S23-1	Global clinical outcomes of a magnetic retention bone conduction hearing system <i>Mark Flynn (Gothenburg, Sweden)</i>		
10:38–10:42	S23-2	Preclinical evaluation of a new bone-conduction hearing aid using giant magnetostrictive material <i>Sho Kanzaki (Tokyo, Japan)</i>		
10:42–10:46	S23-3	BC811 – a new bone conduction instrument that requires no surgery <i>Thomas Giere (Hanover, Germany)</i>		
10:46–10:50	S23-4	A new bone conduction implant – BCI <i>Måns Eeg-Olofsson (Gothenburg, Sweden)</i>		
10:50–10:58	S23-4	Clinical outcomes from an international multi-center clinical investigation of a new magnetic bone conduction implant system <i>Henrik Smeds (Solna, Sweden)</i>		
10:58–11:02	S23-5	A new transcutaneous bone-conducting auditory implant: a multicenter preliminary experience <i>Jerome Nevoux (Le Kremlin Bicetre, France)</i>		
11:02–11:10	S23-6	Experimental and numerical modeling of bone acoustic transmission around the skull <i>Jonathan Barbut (Marseille, France)</i>		
11:10–11:14	S23-7	The transcutaneous bonebridge bone conduction implant: two years experience in France <i>Sébastien Schmerber (Grenoble, France)</i>		
11:14–11:18	S23-8	Audiological results of a transcutaneous bone conduction hearing instrument for conductive and mixed hearing loss <i>Timo Gerdes (Hanover, Germany)</i>		
11:18–11:22	S23-9	Challenges and specific considerations for surgery in the use of the MED-EL bonebridge in patients with chronic ear disease <i>Aanand Acharya (Fremantle, Australia)</i>		
11:22–11:26	S23-10	Bonebridge: auditory and quality of life outcomes in conductive, mixed hearing loss and single sided deafness <i>Alejandro Rivas (Nashville, United States)</i>		
11:26–11:34	S23-11	Bonebridge implantation: outcome measures in performance and quality of life <i>Ken Williams (Toronto, Canada)</i>		
11:34–11:38	S23-12	The value of a preoperative planning for vibrant bonebridge implantation <i>Ingo Todt (Berlin, Germany)</i>		
11:38–11:42	S23-14	Bone anchored hearing device surgery: linear incision without soft tissue reduction. A prospective study <i>Xabier Altuna (San Sebastian, Spain)</i>		
11:42–11:46	S23-15	Soft tissue stability around hydroxyapatite-coated abutments for bone conduction implants placed using soft tissue preservation surgery <i>Anna Larsson (Gothenburg, Sweden)</i>		
11:46–11:50	S23-16	Comparison of audiological results and patient satisfaction of bone-anchored hearing aids: Baha® BP10 versus ponto pro power <i>Susan Busch (Hanover, Germany)</i>		
11:50–11:58	S23-17	Long term observation in patients with bone anchored hearing aids (Baha) <i>Maciej Mrowka (Warsaw, Poland)</i>		
11:58–12:02	S23-18	Early hearing outcomes and experience with the MED-EL bonebridge in single-sided sensorineural hearing loss <i>Aanand Acharya (Fremantle, Australia)</i>		

12:02–12:10	S23-19	The effect of transcranial attenuation on speech perception in noise with a bone conduction hearing implant in single-sided deaf patients <i>Jolien Desmet (Edegem, Belgium)</i>
12:10–12:14	S23-20	Comparison of the binaural performance of Baha attract, bone bridge and cochlear implantation for single sided deafness: early experiences <i>Roberta Marino (Fremantle, Australia)</i>
	S24	SCIENTIFIC SESSION ▶ Black Box 
10:30–12:30 Black Box		Speech testing (in adverse listening conditions, testing across languages)
	<i>Chair:</i>	<i>Margaret Dillon (Chapel Hill, United States)</i> <i>Thomas Wesarg (Freiburg, Germany)</i>
10:30–10:38	S24-1	Psychometric functions of cochlear implant users in fluctuating and steady-state noise <i>Stefan Zirn (Munich, Germany)</i>
10:38–10:42	S24-2	Speech recognition with the Nucleus 6 sound processor in various noise conditions <i>Norbert Dillier (Zurich, Switzerland)</i>
10:42–10:46	S24-3	An Australian clinical evaluation of the Nucleus 6 [®] cochlear implant system <i>Stefan Mauger (East Melbourne, Australia)</i>
10:46–10:50	S24-4	Fine structure information benefit for sound quality and speech-in-noise intelligibility in bimodal cochlear implant users at six and twelve months post implantation <i>Ioan Curca (London, Canada)</i>
10:50–10:54	S24-5	Impact of reverberation on speech perception in cochlear implant users <i>Hannah-Lina Grahlmann (Frankfurt/Main, Germany)</i>
10:54–11:02	S24-6	Effect of background noise and reverberation time on speech intelligibility of cochlear implant users <i>Sebastián Ausili (Caseros, Argentina)</i>
11:02–11:06	S24-7	Evaluation of the performance in noise with two processing algorithms of MED-EL cochlear implants <i>Mariapaola Guidi (Ferrara, Italy)</i>
11:06–11:10	S24-8	The benefit of noise reduction technology for CI users in various listening conditions <i>Volkmar Hamacher (Hanover, Germany)</i>
11:10–11:14	S24-9	Performance in noise with the beamforming technology of the Naída CI Q70, the new sound processor from Advanced Bionics <i>Nathalie Mathias (Stäfa, Switzerland)</i>
11:14–11:18	S24-10	A dynamic listening environment best captures the benefits of binaural hearing in bilateral and EAS cochlear implant listeners <i>Louise Loiselle (Tempe, United States)</i>
11:18–11:22	S24-11	Evaluating speech perception ability using new audio-visual test material <i>Sarah Cook (Tempe, United States)</i>
11:22–11:26	S24-12	Is the effect of a noise reduction algorithm on noise tolerance and speech intelligibility in noise related to spectral resolution? <i>Andre Goedegebure (Rotterdam, The Netherlands)</i>
11:26–11:30	S24-13	The influence of linguistic skills on speech recognition in noise in listeners with normal hearing and cochlear implant users <i>Cas Smits (Amsterdam, The Netherlands)</i>
11:30–11:40	S24-14	Cochlear implant listeners at a cocktail party: evaluating CI performance in multi-talker listening situations with the CRM (Coordinate Response Measure) <i>Huw Cooper (Birmingham, United Kingdom)</i>
11:40–11:44	S24-15	Clinical validation data of VoiceTrack, a noise-reduction algorithm for cochlear implants <i>Alexis Bozorg Grayelli (Dijon, France)</i>
11:44–11:48	S24-16	First clinical results Crystals XDP coding strategy including multiband output compression function <i>Marion Montava (Marseille, France)</i>

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11:48–11:52	S24-17	Putting the “Diagnostics” back into aural rehabilitation with Adult EARS <i>Amy Ng (Toronto, Canada)</i>
11:52–12:00	S24-18	Speech and language development in bilingually raised children with cochlear implants and/or hearing aids <i>Annerose Keilmann (Mainz, Germany)</i>
12:00–12:04	S24-19	International matrix tests as comparable tools for speech audiometry in different languages <i>Michael Buschermöhle (Oldenburg, Germany)</i>

S25		SCIENTIFIC SESSION	► Chorprobensaal 
10:30–12:30		Radiology	
Chorprobensaal		<i>Chair: Antje Aschendorff (Freiburg, Germany) Andrej Zarowski (Wilrijk, Belgium)</i>	
10:30–10:34	S25-2	The accuracy of the cone beam CT in evaluating the size of the facial recess <i>Harukazu Hiraumi (Kyoto, Japan)</i>	
10:34–10:38	S25-3	The effect of cochlear duct length and cochlear size on hearing outcomes in hearing preservation cochlear implantation <i>Jafri Kuthubutheen (Toronto, Canada)</i>	
10:38–10:42	S25-4	Cochlear duct length: the variability and significance <i>Mohnish Grover (Jaipur, India)</i>	
10:42–10:46	S25-5	Radiological and surgical planning with a new computer tomography software <i>Manuel Manrique (Pamplona, Spain)</i>	
10:46–10:50	S25-6	Interdependence of the dimensions of the cochlea and scalar position of the electrode array <i>Rainer Beck (Freiburg, Germany)</i>	
10:50–10:54	S25-7	Electrode migration in patients with perimodiolar electrode arrays <i>Philip Mittmann (Berlin, Germany)</i>	
10:54–10:58	S25-8	Visualization of human inner ear anatomy with high resolution 7 Tesla magnetic resonance imaging <i>Annerie van der Jagt (Leiden, The Netherlands)</i>	
10:58–11:02	S25-9	Assessment of scalar position and potential post-surgery movement of the Advanced Bionics HiFocus Mid Scala electrode based on fusion of cone beam CT and MRI <i>Guido Dees (Maastricht, The Netherlands)</i>	
11:02–11:06	S25-10	Scalar localization of the electrode array using the cone beam computed tomography: a comparative study between straight and perimodiolar precurved electrode array <i>Sébastien Schmerber (Grenoble, France)</i>	
11:06–11:10	S25-11	Complete cochlear coverage: importance and method to achieve it <i>Anandhan Dhanasingh (Innsbruck, Austria)</i>	
11:10–11:14	S25-12	Retrospective analysis of straight electrode array dislocation to the scala vestibuli and the audiological effects <i>Natalie Fischer (Innsbruck, Austria)</i>	
11:14–11:18	S25-13	MRI scanning in patients implanted with an alternatively coupled floating mass transducer of the vibrant soundbridge <i>Daniel Renninger (Berlin, Germany)</i>	
11:18–11:22	S25-14	Observation of cortical activity during speech stimulation in prelingually-deaf adolescent and adult patients with cochlear implantation by PET-CT <i>Haruo Yoshida (Nagasaki, Japan)</i>	
11:22–11:26	S25-15	Tonotopic organization of the primary auditory cortex <i>Katarzyna Ciesla (Warsaw, Poland)</i>	
11:26–11:30	S25-16	Partial deafness – mapping tonotopy in the primary auditory cortex <i>Katarzyna Ciesla (Warsaw, Poland)</i>	

11:30–11:38	S25-17	Tractography of the language network in prelingually deaf patients <i>Theresa Finkl (Dresden, Germany)</i>
11:38–11:46	S25-18	Functional near infrared spectroscopy (fNIRS) imaging of brain function in patients with cochlear implants <i>Paul Kileny (Ann Arbor, United States)</i>
11:46–11:54	S25-20	Three-dimensional surgical anatomy for cochlear implantation <i>Haruo Takahashi (Nagasaki, Japan)</i>
11:54–11:58	S25-21	Artifacts induced by bone conduction implant with MRI-scan. A method to reduce their impact on radiologic assessment <i>Michael Collin (Marseille, France)</i>
11:58–12:02	S25-22	PET scan evidence of prognostic value of visual cross-modal reorganisation after adult cochlear implantation <i>Olivier Deguine (Toulouse, France)</i>

	WS1	BERNSTEIN SPARKS WORKSHOP	▶ Vortragssaal der Bibliothek	
10:30–12:30		Peripheral models and their use in developing coding strategies		
Vortragssaal der Bibliothek	<i>Chair:</i>	<i>Werner Hemmert (Garching, Germany)</i>		
10:30–10:35	WS1-1	Introduction and opening <i>Bernhard Seeber (Munich, Germany)</i>		
10:35–11:05	WS1-2	Conceptual and computational models of temporal coding by electrical stimulation of the auditory nerve <i>Ian Bruce (Hamilton, Canada)</i>		
11:05–11:35	WS1-3	A simple but fast and useful model of the electrically stimulated auditory periphery <i>Blake Wilson (Durham, United States)</i>		
11:35–11:40	WS1-4	Questions		
11:40–12:00	WS1-5	A phenomenological model to reproduce the latency distribution and threshold of the electrically stimulated auditory nerve fibre <i>Colin Home (Nottingham, United Kingdom)</i>		
12:00–12:20	WS1-6	Making use of auditory models for better mimicking of normal hearing processes with cochlear implants: the SAM coding strategy <i>Tamas Harczos (Illmenau, Germany)</i>		
12:20–12:30	WS1-7	Questions & discussion: peripheral models and their use for strategy development		

	P1-6	ePOSTER SESSION	▶ ePoster 1	
10:30–11:30		Outcomes adults		
ePoster 1		For details view p. 97		

	P2-4	ePOSTER SESSION	▶ ePoster 2	
10:30–12:30		Objective measures		
ePoster 2		For details view p. 99		

	TB5	HANDS-ON WORKSHOP V	▶ Temporal Bone Lab	
10:30–12:00		Temporal bone		
Temporal Bone Lab	<i>Instructors:</i>	<i>Christopher Raine (Bradford, United Kingdom)</i> <i>Brian McKinnon (Memphis, United States)</i>		
	<i>Tutors:</i>	<i>Christoph Reichel (Munich, Germany)</i> <i>Simona Vögele (Munich, Germany)</i>		

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P1-7 ePOSTER SESSION

▶ ePoster 1

11:30–12:30
ePoster 1**Outcomes children**
For details view p. 101

12:30–13:30

Lunch break

RT8 ROUND TABLE

▶ Philharmonie

13:30–15:00
Philharmonie**Bilateral cochlear implants***Chair & Moderation: William Gibson (Gladesville, Australia)
Mattheus Vischer (Bern, Switzerland)**Panel Discussion*
*Panelists: Marcus Atlas (Perth, Australia)
Jean-Pierre Bébear (Bordeaux, France)
Robert Briggs (East Melbourne, Australia)
Abdulrahman Hagr (Riyadh, Saudi Arabia)
Eva Karltorp (Stockholm, Sweden)
Roland Laszig (Freiburg, Germany)
Blake Papsin (Toronto, Canada)
Christopher Raine (Bradford, United Kingdom)
Angel Ramos (Las Palmas, Spain)
Daniel Visser (Munich, Germany)
Andrej Zarowski (Wilrijk, Belgium)*

Including:

- RT8-2** The virtual reality as a tool for the investigation of the mobile and stationary localization with monaurally and binaurally hearing CI users
Daniel Visser (Munich, Germany)
- RT8-3** The effect of sequential or simultaneous bilateral cochlear implantation on speech reception thresholds and spatial listening abilities in children born with profound hearing impairment
Christopher Raine (Bradford, United Kingdom)
- RT8-4** Bilateral implantation in children: hearing in noise and localization benefits
Jean-Pierre Bébear (Bordeaux, France)
- RT8-5** Comparison between binaural and bilateral recipients for speech intelligibility and sound localization abilities
Jean-Pierre Bébear (Bordeaux, France)
- RT8-6** Effect of bilateral cochlear implants to treat vestibular symptoms
Blake Papsin (Toronto, Canada)
- RT8-7** Bilateral cochlear implants – sequential versus simultaneous CI
Marcus Atlas (Perth, Australia)

	S26	SCIENTIFIC SESSION	► Carl-Orff-Saal	
13:30–15:00		Active middle ear implants		
Carl-Orff-Saal		<i>Chair:</i> Hannes Maier (Hanover, Germany) Sébastien Schmerber (Grenoble, France)		
13:30–13:34	S26-1	Alternative inner ear stimulation with the Cochlear™ Codacs™ Direct Acoustic Cochlear Implant Actuator Martin Großböhmichen (Hanover, Germany)		
13:34–13:38	S26-2	Longterm results of direct acoustic cochlear stimulation with Codacs ID Emmanuel Mylanus (Nijmegen, The Netherlands)		
13:38–13:42	S26-3	Indications, technique and functional results of a fully implantable acoustic device Arnaud Deveze (Marseille, France)		
13:42–13:50	S26-4	Experimental investigations and simulation models on the influence of coupling conditions and direction of active middle ear implants Marcus Neudert (Dresden, Germany)		
13:50–13:58	S26-5	Vibrant soundbridge long-term follow up in sensori neural hearing loss Hannes Maier (Hanover, Germany)		
13:58–14:02	S26-6	Active middle ear implant vibrant soundbridge in sensorineural hearing loss Daniela Ribeiro (Porto, Portugal)		
14:02–14:06	S26-7	Comparison of coupling efficiency of vibroplasty modalities in the management of mixed and conductive hearing loss Roberta Marino (Fremantle, Australia)		
14:06–14:14	S26-8	Reinforced implant fixation in incus vibroplasty Robert Mlynski (Wuerzburg, Germany)		
14:14–14:18	S26-9	Improved efficiency and repeatability in round window stimulation by controlled pretension Hannes Maier (Hanover, Germany)		
14:18–14:22	S26-10	Auditory results of the oval window coupler for implantation of an AMEI Magnus Teschner (Hanover, Germany)		
14:22–14:26	S26-11	Clinical trial of the vibrant soundbridge as a treatment for conductive and mixed hearing losses, using direct round window cochlear stimulation Jack Wazen (Sarasota, United States)		
14:26–14:30	S26-12	Cone-beam CT in round-window vibroplasty Maurizio Barbara (Rome, Italy)		
14:30–14:34	S26-13	Surgical concept of vibrant soundbridge in infants with atresia of the external auditory canal Martin Leinung (Frankfurt/Main, Germany)		
14:34–14:38	S26-14	Coupling possibilities of vibrant soundbridge middle ear implant in patients with congenital aural atresia Eugenijus Lesinskas (Vilnius, Lithuania)		
14:38–14:42	S26-15	Transcutaneous bone-conduction hearing implant in children with bilateral aural atresia Sofiane Ouhab (Algiers, Algeria)		
14:42–14:50	S26-16	Long-term compliance and satisfaction with bone conduction hearing devices in patients with congenital unilateral conductive hearing loss Myrthe Karianne Hol (Nijmegen, The Netherlands)		
14:50–14:54	S26-17	Bonebridge surgery in pediatric cases Astrid Wolf-Magele (St. Pölten, Austria)		

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	S27	SCIENTIFIC SESSION	► Black Box	
13:30–15:00		Fitting I		
Black Box		<i>Chair: Martin O’Driscoll (United Kingdom) Kurt Stephan (Innsbruck, Austria)</i>		
13:30–13:34	S27-1	“Why are we waiting?” Next day activation for children with cochlear implants <i>Yetta Abrahams (Sydney, Australia)</i>		
13:34–13:38	S27-2	Effect of stimulation rates on orientation and mobility in deaf-blind cochlear implant users <i>Daniel Beaudoin (Montreal, Canada)</i>		
13:38–13:46	S27-3	Selective suppression of facial nerve activation in CI patients with triphasic stimulation <i>Reinhold Schatzer (Innsbruck, Austria)</i>		
13:46–13:50	S27-4	Use of the triphasic pulses coding strategy in a case of facial nerve stimulation affecting all electrodes <i>Samantha Roux-Vaillard (Angers, France)</i>		
13:50–13:54	S27-5	The effect of pulse rate and pulse width on the loudness growth function <i>Britta Böhnke (Kiel, Germany)</i>		
13:54–14:02	S27-6	Influence of pulse rate and interpulse interval on temporal loudness integration in cochlear implants <i>Sonja Karg (Garching, Germany)</i>		
14:02–14:10	S27-7	Improving channel independence before selecting electrodes for deactivation <i>Josh Stohl (Durham, United States)</i>		
14:10–14:14	S27-8	Home based models for programming and managing implantable technologies <i>Colleen Psarros (North Rocks, Australia)</i>		
14:14–14:18	S27-9	Clinical outcomes for patients fitted with their “Hearing Profile” <i>Vigen Bakhshinyan (Moscow, Russia)</i>		
14:18–14:26	S27-10	CI-fitting: an inventory on how 47.000 CI users have been fitted <i>Paul Govaerts (Antwerp-Deurne, Belgium)</i>		
14:26–14:30	S27-11	Self-testing as prerequisite for remote fitting <i>Paul Govaerts (Antwerp-Deurne, Belgium)</i>		
14:30–14:34	S27-12	Expert telefitting mode for cochlear implant recipients <i>Arkadiusz Wasowski (Kajetany/Warsaw, Poland)</i>		
14:34–14:38	S27-13	Long-term aftercare using remote fitting in cochlear implant recipients <i>Mark Winter (Rheine, Germany)</i>		
	S28	SCIENTIFIC SESSION	► Chorprobensaal	
13:30–15:00		Various aspects of binaural hearing		
Chorprobensaal		<i>Chair: Milan Profant (Bratislava, Slovakia) Angel Ramos (Las Palmas, Spain)</i>		
13:30–13:34	S28-1	The benefits of bilateral cochlear implantation <i>John Culling (Cardiff, United Kingdom)</i>		
13:34–13:38	S28-2	Bilateral cochlear implant fitting based on pitch matching <i>Shaza Saleh (Riyadh, Saudi Arabia)</i>		
13:38–13:42	S28-3	Speech understanding in realistic noise environments using binaural signal pre-processing strategies in bilateral CI users <i>Regina Baumgärtel (Oldenburg, Germany)</i>		
13:42–13:46	S28-5	The effect of early auditory experience on sound localisation and spatial release from masking in children with bilateral cochlear implants <i>Catherine Killan (Bradford, United Kingdom)</i>		
13:46–13:50	S28-6	Analysis of spatial hearing in “REAL-LIFE” conditions <i>Martin Lehmann (Bielefeld, Germany)</i>		

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13:50–13:54	S28-7	Cochlear implant users can benefit from a modest head orientation away from the speaker when attending to speech in noise <i>Jacques Grange (Cardiff, United Kingdom)</i>
13:54–13:58	S28-8	Binaural balanced tonotopy rehabilitation in a bilateral cochlear implanted recipient <i>Yannick Belouard (Angers, France)</i>
13:58–14:02	S28-9	Do envelope modulations disrupt binaural signals in bilateral cochlear implantees? <i>Matthew Goupell (College Park, United States)</i>
14:02–14:10	S28-10	Across-electrode integration of interaural time difference in bilateral cochlear-implant listeners <i>Bernhard Laback (Vienna, Austria)</i>
14:10–14:18	S28-11	Improving cochlear implant patients' performance by interleaving the signal across ears <i>Justin Aronoff (Champaign, United States)</i>
14:18–14:22	S28-12	Pediatric unilateral implantation in an era of routine simultaneous bilateral implantation <i>Kate Hanvey (Birmingham, United Kingdom)</i>
14:22–14:26	S28-13	Baha and CI in single side deafness <i>Jorge De Abajo (Pamplona, Spain)</i>
14:26–14:30	S28-14	The acoustical localization of monaurally and binaurally hearing CI users in a virtual reality <i>Daniel Visser (Munich, Germany)</i>

WS2 BERNSTEIN SPARKS WORKSHOP

▶ Vortragssaal der Bibliothek

**13:30–14:45**Vortragssaal
der Bibliothek**Peripheral models and their use in developing coding strategies (continued)***Chair: Werner Hemmert (Garching, Germany)*

13:30–14:00

WS1-2Towards coding strategies for cochlear implants based on neural excitation measurements and models
Norbert Dillier (Zurich, Switzerland)

14:00–14:30

WS2-2Cochlear implant stimulation strategies based on neuroscience
Jan Wouters (Leuven, Belgium)

14:30–14:45

WS2-3

Questions & discussion: peripheral models and their use for strategy development

P1-8 ePOSTER SESSION

▶ ePoster 1

**13:30–15:00**

ePoster 1

Surgical issues: revision/re-implantation, malformation & robotic surgery

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P2-5 ePOSTER SESSION

▶ ePoster 2

**13:30–15:00**

ePoster 2

Cochlear implants around the world

For details view p. 104

TB6 HANDS-ON WORKSHOP VI

▶ Temporal Bone Lab

**13:30–15:00**Temporal Bone
Lab**Temporal bone***Instructors: Wolfgang Elsaesser (Feldkirch, Austria)
Joachim Müller (Munich, Germany)
Gunesh Rajan (Fremantle, Australia)**Tutors: Mareike Haack (Munich, Germany)
Christoph Reichel (Munich, Germany)*

	WS3	BERNSTEIN SPARKS WORKSHOP	► Vortragssaal der Bibliothek 
14:45–16:30 Vortragssaal der Bibliothek		Binaural hearing with electric stimulation – the “Munich Center for NeuroSciences – Brain and Mind” session	
	<i>Chair:</i>	<i>Bernhard Seeber (Munich, Germany)</i>	
14:45–15:15	WS3-1	Binaural cochlear implant: models and issues <i>Steven Colburn (Boston, United States)</i>	
15:15–15:45	WS3-2	Improving sensitivity to interaural time differences with cochlear implants at high stimulation rates: insights from neural data <i>Kenneth Hancock (Boston, United States)</i>	
15:45–16:15	WS3-3	A bilateral cochlear implant sound coding strategy inspired by the medial olivocochlear reflex <i>Almudena Eustaquio-Martin (Salamanca, Spain)</i> <i>Enrique Lopez-Poveda (Salamanca, Spain)</i>	
16:15–16:30	WS2-4	Questions & discussion: achieving binaural hearing with bilateral electrical stimulation	

	RT9	ROUND TABLE	► Philharmonie 
15:00–16:30 Philharmonie		Hearing & structure preservation	
	<i>Chair &</i>	<i>Sunil Dutt (Bangalore, India)</i>	
	<i>Moderation:</i>	<i>Timo Stöver (Frankfurt/Main, Germany)</i>	
		Panel discussion	
	<i>Panelists:</i>	<i>Wolf-Dieter Baumgartner (Vienna, Austria)</i>	
		<i>Robert Briggs (East Melbourne, Australia)</i>	
		<i>Young Myung Chun (Seoul, Korea)</i>	
		<i>Bruce Gantz (Iowa City, United States)</i>	
		<i>Kevin Green (Manchester, United Kingdom)</i>	
		<i>Thomas Lenarz (Hanover, Germany)</i>	
		<i>Manuel Manrique (Pamplona, Spain)</i>	
		<i>Harold Pillsbury (Chapel Hill, United States)</i>	
		<i>Henryk Skarzynski (Warsaw, Poland)</i>	
		<i>Hinrich Staecker (Kansas City, United States)</i>	
		<i>Shin-Ichi Usami (Matsumoto, Japan)</i>	

	S29	SCIENTIFIC SESSION	► Carl-Orff-Saal	
15:00–16:30		Outcomes		
Carl-Orff-Saal		<i>Chair: Yetta Abrahams (Sydney, Australia) Katrin Neumann (Bochum, Germany)</i>		
15:00–15:10	S29-1	Cochlear implantation in China <i>Demin Han (Beijing, China)</i>		Invited talk
15:10–15:14	S29-2	Preimplant expectations and postimplantation outcomes. Do they match? <i>Neelam Vaid (Pune, India)</i>		
15:14–15:22	S29-3	Relation of cochlear implant performance and genetic evaluation <i>Anke Tropitzsch (Tuebingen, Germany)</i>		
15:22–15:26	S29-4	Comparison of outcomes in self-funded and institutional-funded cochlear implant patients <i>Neeraj Kasliwal (Jaipur, India)</i>		
15:26–15:30	S29-5	Behavioral factors influencing outcomes in adult implant recipients: the role of counseling in post-implant care and management <i>Vikki Tselepis (East Melbourne, Australia)</i>		
15:30–15:34	S29-6	Long-term outcomes of cochlear implanted children: a benefit for all? <i>Nadine Cochard (Toulouse, France)</i>		
15:34–15:38	S29-7	Unexpected performance in adult cochlear implant users <i>Susan Waltzman (New York, United States)</i>		
15:38–15:42	S29-8	Influence of a pre-operative peripheral vestibular disorder on the post-operative outcome in cochlear implantees <i>Dietmar Basta (Berlin, Germany)</i>		
15:42–15:46	S29-9	Evaluation of speech perception for the HiFocus1J and the new HiFocus MidScalar electrode arrays <i>Johan Frijns (Leiden, The Netherlands)</i>		
15:46–15:50	S29-10	Usefulness of the “Auditory Skills Profile” in evaluation of the auditory skills progress in patients with partial deafness after cochlear implantation <i>Joanna Ćwiklińska (Warsaw, Poland)</i>		
15:50–15:54	S29-11	Cochlear implant candidacy evaluation using unaided non-linguistic measures <i>Jong Ho Won (Knoxville, United States)</i>		
15:54–15:58	S29-12	Presentation of pain and poor sound quality in pediatric and adolescent cochlear implant users <i>Kerri Millward (Manchester, United Kingdom)</i>		
15:58–16:02	S29-13	Assessment of environmental sound perception and cognition in cochlear implant patients <i>Valeriy Shafiro (Chicago, United States)</i>		
16:02–16:06	S29-14	Cochlear implants and the definitive management of Meniere’s disease <i>Marcus Atlas (Perth, Australia)</i>		
16:06–16:10	S29-15	Cochlear implantation in neurofibromatosis type 2 patients <i>Emilio Amilibia (Badalona, Spain)</i>		
16:10–16:14	S29-16	Labyrinthectomy and simultaneous cochlear implantation for single sided intractable Meniere’s disease <i>William Gibson (Gladesville, Australia)</i>		
16:14–16:22	S29-17	Cochlear nerve preservation during acoustic neuroma removal – our experience and discussion of relevance to a cochlear implantation program <i>Rob Eisenberg (Newcastle, Australia)</i>		
16:22–16:26	S29-18	Cochlear implant after resection of vestibular schwannoma in a patient affected by profound prelingual sensorineural hearing loss <i>Antonio Caruso (Piacenza, Italy)</i>		

	S30	SCIENTIFIC SESSION	► Black Box	
15:00–16:30 Black Box		Single sided deafness (SSD)		
		<i>Chair: Roland Laszig (Freiburg, Germany) Paul Van de Heyning (Antwerp, Belgium)</i>		
15:00–15:10	S30-1	Cochlear implantation as treatment of single-sided deafness and asymmetric hearing loss – 24 months results <i>Susan Arndt (Freiburg, Germany)</i>		Invited talk
15:10–15:18	S30-2	Loudness perception in single-side deaf cochlear implant users <i>Martina Brendel (Hanover, Germany)</i>		
15:18–15:22	S30-3	Implantation of the Cochlear® Nucleus® system in adults with single-sided deafness <i>J. Thomas Roland (New York, United States)</i>		
15:22–15:26	S30-4	Single sided deafness and cochlear implantation: cross-sectional study of speech understanding and sound localization <i>Stefan Brill (Wuerzburg, Germany)</i>		
15:26–15:30	S30-5	Audiological evaluation of single sided deaf patients with a cochlear implant <i>Joachim Müller-Deile (Kiel, Germany)</i>		
15:30–15:34	S30-6	Effects of rate and place of stimulation on pitch in single-sided deaf implant users <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
15:34–15:38	S30-7	Music perception in SSD with cochlear implants <i>Steffi-Johanna Brockmeier (Basel, Switzerland)</i>		
15:38–15:42	S30-8	Cochlear implants in unilateral deafness: luxury or necessity? <i>Tinne Theunen (Wilrijk, Belgium)</i>		
15:42–15:46	S30-9	Localisation ability of CI recipients in single-side-deafness (SSD) <i>Anke Lesinski-Schiedat (Hanover, Germany)</i>		
15:46–15:50	S30-10	Sound localization in single-sided deaf cochlear implant users, after upgrade to one single-unit speech processor <i>Griet Mertens (Edegem, Belgium)</i>		
15:50–15:54	S30-11	Spatial acuity and lateralisation after cochlear implant in unilateral deafness: where does the auditory cortex come in? <i>Dayse Tavora-Vieira (Perth, Australia)</i>		
15:54–15:58	S30-12	Binaural and monaural speech recognition in single-sided deaf and bilateral cochlear implant recipients <i>Thomas Wesarg (Freiburg, Germany)</i>		
15:58–16:02	S30-13	Cochlear implant (CI) surgery in long-term single-sided deafness (SSD) – first results <i>Antje Kugler (Halberstadt, Germany)</i>		
16:02–16:06	S30-14	Cochlear implantation in single-sided deafness – effects on binaural perception <i>David Prejban (Vienna, Austria)</i>		
16:06–16:10	S30-15	Restoration of binaural hearing with a cochlear implant in single sided deaf subjects <i>Rolf Battmer (Berlin, Germany)</i>		
16:10–16:14	S30-16	Tinnitus loudness as a factor in the decision for a bone conduction hearing implant of a single-sided deaf patient <i>Jolien Desmet (Edegem, Belgium)</i>		
16:14–16:18	S30-17	Comparison of the different treatment options in single-sided deafness <i>Mathieu Marx (Toulouse, France)</i>		
16:18–16:22	S30-18	Single side deafness after vestibular schwannoma resection: cochlear implants (CI), bone anchored hearing aids (Baha) or Contralateral Routing of Signals (CROS) hearing AIDS? <i>Marimar Medina (Piacenza, Italy)</i>		

16:22–16:26	S30-19	Relationships between speech perception, localization and pitch matching in patients who have normal hearing in one ear and a cochlear implant in the contralateral ear <i>Camille Dunn (Iowa City, United States)</i>
16:26–16:30	S30-20	Cochlear implantation in single sided deafness <i>Alejandro Rivas (Nashville, United States)</i>
	S31	SCIENTIFIC SESSION ▶ Chorprobensaal 
15:00–16:30		Young children
Chorprobensaal	<i>Chair:</i>	<i>Catherine Birman (Sydney, Australia)</i> <i>Nancy Young (Chicago, United States)</i>
15:00–15:04	S31-1	“Frogs and snakes”: early implanted children with severe/profound hearing loss attending auditory-verbal early intervention can achieve typical patterns of consonant clusters by age 3 <i>Anne Fulcher (Sydney, Australia)</i>
15:04–15:08	S31-2	The influence of newborn hearing screening programs on the age at cochlear implantation in children <i>Marc Lammers (Utrecht, The Netherlands)</i>
15:08–15:12	S31-3	GROBIC – Baby’s observation checklist in pre and post cochlear implantation <i>Helena Alves (Coimbra, Portugal)</i>
15:12–15:16	S31-4	Is it possible that hearing may improve in the first months of life? – Implications for candidates selection for hearing aids and cochlear implants at an early age <i>Mauricio Cohen (Santiago, Chile)</i>
15:16–15:20	S31-5	Early literacy skills in children with simultaneous bilateral cochlear implantation between 5 and 18 months <i>Christiane Haukedal (Oslo, Norway)</i>
15:20–15:24	S31-6	Early predictors of narrative skills after 6 years (72 months) of cochlear implant use <i>Kelsey Klein (Oslo, Norway)</i>
15:24–15:28	S31-7	Factors influencing perception, speech and language development of cochlear implanted children: multivariate retrospective analysis <i>Genevieve Lina-Granade (Lyon, France)</i>
15:28–15:36	S31-8	Report on complex language skills in prelingually deaf children six years after simultaneously bilateral implantation from 5 to 18 months of age <i>Ona Bo Wie (Oslo, Norway)</i>
15:36–15:40	S31-9	Language development with the German Language Development Test Battery (SETK) after cochlear implantation (CI) <i>Barbara Streicher (Cologne, Germany)</i>
15:40–15:44	S31-10	Age-appropriate speech/language by 3 years-of-age: key contributing factors <i>Anne Fulcher (Sydney, Australia)</i>
15:44–15:48	S31-11	The effect of noise on speech feature perception in children with cochlear implants. A comparison with children with specific language impairment* (*research funded by the FP7 Marie Curie project PEOPLE-2012-IAPP-324401 “Hearing Minds”) <i>Martine Coene (Amsterdam, The Netherlands)</i>
15:48–15:52	S31-12	Auditory-cognitive training improves language performance in prelingually deafened cochlear implant recipients <i>Nancy Young (Chicago, United States)</i>
15:52–15:56	S31-13	BabyTalk – a new tele-therapy parent coaching program demonstrates an effective and efficient alternative service delivery model for listening and spoken language <i>Jannine Larky (Stanford, United States)</i>
15:56–16:00	S31-14	Factors influencing the auditory development in early cochlear implanted children <i>Anita Obrycka (Kajetany/Warsaw, Poland)</i>

SCIENTIFIC PROGRAM

FRIDAY | JUNE 20, 2014

DETAILED PROGRAM

16:00–16:04	S31-15	Improving outcomes for children anxious about the mapping process: how the use of adapted mapping techniques can establish effective maps in these children and enable improved outcomes as measured by speech perception and/or aided thresholds. <i>Leonie Fewster (Melbourne, Australia)</i>
16:04–16:08	S31-16	Maximizing device choice and fitting in infants – the role of the infant monitor of vocal production IMP <i>Colleen Psarros (North Rocks, Australia)</i>
16:08–16:12	S31-17	Speech intelligibility, sentence duration and timing errors in pediatric cochlear implant users <i>Olga Peskova (Richardson, United States)</i>
16:12–16:16	S31-18	Developing a theory of mind with young deaf children – a model of parent intervention <i>Lyndsey Allen (Nottingham, United Kingdom)</i>
16:16–16:20	S31-19	Outcome of congenital CMV sensorineural hearing loss implantations: cerebral anomalies <i>Natacha Teissier (Paris, France)</i>
16:20–16:24	S31-20	The risk of vestibular impairment after cochlear implant varies as a function of the hearing loss etiology <i>Sylvette Wiener-Vacher (Paris, France)</i>

P1-9	ePOSTER SESSION	▶ ePoster 1	
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15:00–16:30	Difficult patients, atypical or challenging situations
ePoster 1	For details view p. 105

P2-6	ePOSTER SESSION	▶ ePoster 2	
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15:00–16:30	Bimodal/binaural hearing
ePoster 2	For details view p. 107

TB7	HANDS-ON WORKSHOP VII	▶ Temporal Bone Lab	
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15:00–16:30	Temporal bone
Temporal Bone Lab	<p><i>Instructors:</i> Xia Gao (Nanjing City, China) John Martin Hempel (Munich, Germany) Mario Zernotti (Cordoba, Argentina)</p> <p><i>Tutors:</i> Mareike Haack (Munich, Germany) Jan Peter Thomas (Bochum, Germany) Pamela Zengel (Munich, Germany)</p>

16:30–17:00	Coffee break	
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	RT10	ROUND TABLE	► Philharmonie	
17:00–18:45 Philharmonie		Auditory brainstem implants (ABI) & beyond		
	<i>Chair & Moderation:</i>	<i>Shakeel Saeed (London, United Kingdom)</i> <i>Bob Shannon (United States)</i>		
17:00–17:15	RT10-1	Revision surgery for ABI's <i>Robert Behr (Fulda, Germany)</i>		
17:15–17:19	RT10-2	Auditory brainstem implant in NF2 and other indications: a report of 68 cases <i>Didier Bouccara (Paris, France)</i>		
17:19–17:23	RT10-3	Auditory brainstem implantation in young children – UNC clinical trial <i>Craig Buchman (Chapel Hill, United States)</i>		
17:23–17:27	RT10-4	Histological study of the cochlear nerve in a case implanted salvage ABI after CI <i>Kozo Kumakawa (Tokyo, Japan)</i>		
17:27–17:31	RT10-5	Long term ABI results in children <i>Levent Sennaroglu (Ankara, Turkey)</i>		
17:31–17:35	RT10-6	Pediatric ABI Surgery: our experience at MEEI <i>Daniel Lee (Boston, United States)</i>		
17:35–17:45	RT10-7	ABI for young children incl. complications <i>Vittorio Colletti (Verona, Italy)</i>		
17:45–17:55	RT10-8	Beyond ABI <i>Thomas Lenarz (Hanover, Germany)</i>		
17:55–18:05	RT10-9	ABI or CI <i>Mohan Kameswaran (Chennai, India)</i>		
18:05–18:15	RT10-10	TBA <i>Giuseppe De Donato (Piacenza, Italy)</i>		
18:15–18:45		Discussion		

	S32	SCIENTIFIC SESSION	► Carl-Orff-Saal	
17:00–18:45 Carl-Orff-Saal		Surgical and non-surgical complications		
		<i>Chair: Levent Olgun (Izmir, Turkey) Stefan Plontke (Halle, Germany)</i>		
17:00–17:12	S32-1	Revision cochlear implant surgery and reimplantation in children <i>Levent Olgun (Izmir, Turkey)</i>		Invited talk
17:12–17:22	S32-2	Cochlear re-implantation – routine or concern? <i>Antje Aschendorff (Freiburg, Germany)</i>		Invited talk
17:22–17:34	S32-3	Indications and outcome of cochlear reimplantation – 22 year review from the Yorkshire Auditory Implant Centre <i>Christopher Raine (Bradford, United Kingdom)</i>		Invited talk
17:34–17:38	S32-4	Revision cochlear implantation in older adults <i>Harold Pillsbury (Chapel Hill, United States)</i>		
17:38–17:42	S32-5	Reimplantation surgery in pediatric cochlear implant patients: 18 year experience <i>Greg Licameli (Boston, United States)</i>		
17:42–17:46	S32-6	Uniform registration of complications and failures in over 1,000 cochlear implant patients using a custom database system <i>Henricus Theunisse (Nijmegen, The Netherlands)</i>		
17:46–17:50	S32-7	Explant-reimplant cochlear implants – impedance, NRT and auditory perception outcomes in pediatric patients <i>Catherine Birman (Sydney, Australia)</i>		
17:50–17:54	S32-8	Re-implantation, its outcomes <i>Milind Kirtane (Mumbai, India)</i>		
17:54–17:58	S32-9	Revision cochlear implantation in children <i>Françoise Sterkers-Artières (Palavas Les Flots, France)</i>		
17:58–18:06	S32-10	Complications and survival rates of cochlear implant surgery: the gruppo otologico experience <i>Giuseppe De Donato (Piacenza, Italy)</i>		
18:06–18:14	S32-11	Management of delayed infection in the pediatric cochlear implant patient <i>Greg Licameli (Boston, United States)</i>		
18:14–18:18	S32-12	Delayed flap necrosis in cochlear implant patients: why and how to manage? <i>Samer Ibrahim (Cairo, Egypt)</i>		
18:18–18:22	S32-13	Management of flap failure after cochlear implantation <i>Mohammad Ajalloueyean (Tehran, Iran)</i>		
18:22–18:26	S32-14	Cochlear implant: a spot light on peri-operative complications <i>Yassmin Aljedaani (Jeddah, Saudi Arabia)</i>		
18:26–18:30	S32-15	Reasons for explantation and surgical results of re-implantation in 713 consecutive cochlear implantations <i>Per Caye-Thomasen (Copenhagen, Denmark)</i>		
18:30–18:34	S32-16	Misinsertion of cochlear implant electrode array into the vestibule and superior semicircular canal <i>Sung Wook Jeong (Busan, Korea)</i>		
18:34–18:38	S32-17	Postoperative complications in cochlear implant users: aurological outcomes and assessment of quality of life <i>Anna Balakina (Tomsk, Russia)</i>		
18:38–18:42	S32-18	Endoscopic CI? A call for caution <i>Muaaz Tarabichi (Dubai, United Arab Emirates)</i>		

	S33	SCIENTIFIC SESSION	► Black Box	
17:00–18:45		Fitting II		
Black Box		<i>Chair: Paul Govaerts (Antwerp-Deurne, Belgium) Stefan Zirn (Freiburg, Germany)</i>		
17:00–17:04	S33-1	Better fittings for children and toddlers <i>Antonius Stanciu (Timisoara, Romania)</i>		
17:04–17:08	S33-2	The adaptive categorical loudness scaling with direct electric stimulation in cochlear implant users <i>Stefan Fredelake (Hanover, Germany)</i>		
17:08–17:12	S33-3	Programming bilateral vs. unilateral cochlear implants in children: should loudness summation be considered? <i>Ricky Kaplan Neeman (Ramat Gan, Israel)</i>		
17:12–17:16	S33-4	Reduction of a risk of overstimulation in children after cochlear implantation <i>Adam Walkowiak (Kajetany/Warsaw, Poland)</i>		
17:16–17:20	S33-5	Programming young children with the MED-EL system without objective measurements <i>Anzel Britz (London, United Kingdom)</i>		
17:20–17:24	S33-6	Protocol for investigation of Nucleus fitting software and remote assistant fitting in postoperative care over implanted patients <i>Henryk Skarzynski (Warsaw, Poland)</i>		
17:24–17:28	S33-7	How clinicians use data logging <i>Saji Maruthurkkara (Macquarie University, Australia)</i>		
17:28–17:32	S33-8	Auditory-linguistic results in cochlear implanted adults with frequency programming <i>Juan Carlos Falcón González (Las Palmas de Gran Canaria, Spain)</i>		
17:32–17:36	S33-9	A post-hoc characterisation of cochlear implant fitting practices <i>Colin Irwin (Basel, Switzerland)</i>		
17:36–17:40	S33-10	A bimodal fitting model: vibrant soundbridge and cochlear implant <i>Angie Diez (Potsdam, Germany)</i>		

S34

SCIENTIFIC SESSION

▶ Chorprobensaal



17:00–18:45

Chorprobensaal

Snapshot presentations on health economics and panel discussion

- Chair:* *Wolf-Dieter Baumgartner (Vienna, Austria)*
Brian John McKinnon (Memphis, United States)
- 17:00–17:04 **S34-1** Cochlear implantation in South Africa: the triumph and the tragedy
Iain Butler (Bloemfontein, South Africa)
- 17:04–17:08 **S34-2** The direct costs of cochlear implantation in South Africa
Magteld Smith (Bloemfontein, South Africa)
- 17:08–17:12 **S34-3** Cost-utility analysis of bilateral cochlear implantation in adults: choosing the most appropriate health utility instrument
Joseph Chen (Toronto, Canada)
- 17:12–17:16 **S34-4** Obamacare in the US: what does it mean for cochlear implant access?
Donna Sorkin (McLean, United States)
- 17:16–17:20 **S34-5** Factors affecting cochlear implant access in the United States
Donna Sorkin (McLean, United States)
- 17:20–17:24 **S34-6** Economic evaluation of cochlear implantation in children using Australian costs and consequences
Chris Foteff (Sydney, Australia)
- 17:24–17:28 **S34-7** Adults with cochlear implantation demonstrate significant rise in average annual personal income
Vincent Lin (Toronto, Canada)
- 17:28–17:32 **S34-8** Establishment of a government funded cochlear implant program in Kerala – guidelines for efficient functioning
Manoj Puthiyaparambil (Calicut, India)
- 17:32–17:36 **S34-9** Improving cost-effectiveness of pediatric cochlear implantation before one year
Susan Abdi (Tehran, Iran)
- 17:36–17:44 **S34-10** Evaluation of cost-utility in middle ear implantation in the “Nordic School” a multicenter study in Sweden and Norway
Nadine Schart-Morén (Uppsala, Sweden)
- 17:44–17:48 **S34-11** 10 years of cochlear implantation in India: trends and outcomes
Shalabh Sharma (New Delhi, India)
- 17:48–17:52 **S34-12** The DoD Hearing Center of Excellence – creating a hearing health improvement network
Mark Packer (Lackland, United States)
- 17:52–17:56 **S34-13** Transferrability of lean tools and methodologies to CI programs functioning in non-lean medical centers
Douglas Backous (Seattle, United States)
- Panel Discussion*
Panelists: *Douglas Backous (Seattle, United States)*
Wolf-Dieter Baumgartner (Vienna, Austria)
Lennart Edfeldt (Uppsala, Sweden)
Bernard Gil Fraysse (Toulouse, France)
Brian John McKinnon (Memphis, United States)
Gerry O'Donoghue (Nottingham, United Kingdom)

	WS4	BERNSTEIN SPARKS WORKSHOP	▶ Vortragssaal der Bibliothek 
17:00–18:45 Vortragssaal der Bibliothek		Improving speech perception with cochlear implants using model-based approaches	
	<i>Chair:</i>	<i>Bernhard Seeber (Munich, Germany)</i>	
17:00–17:30	WS3-1	Towards a model based coding strategy for cochlear implants using spectral contrast enhancement <i>Waldo Nogueira Vazquez (Hanover, Germany)</i>	
17:30–17:50	WS3-2	Anatomical and physiological parameters cause inter-individual variances in the neural representation of speech in cochlear implant users <i>Michele Nicoletti (Garching, Germany)</i>	
17:50–18:20	WS4-3	A model of speech intelligibility in cochlear implant users <i>Volker Hohmann (Oldenburg, Germany)</i>	
18:20–18:35	WS4-4	Questions & discussion: speech models and their application to cochlear implants	
18:35–18:45	WS4-5	Closing words <i>Bernhard Seeber (Munich, Germany)</i>	
	P1-10	ePOSTER SESSION	▶ ePoster 1 
17:00–18:45 ePoster 1		Rehabilitation for children – speech production, speech perception For details view p. 107	
	P2-7	ePOSTER SESSION	▶ ePoster 2 
17:00–18:00 ePoster 2		Cochlear implants in the elderly For details view p. 109	
	TB8	HANDS-ON WORKSHOP VIII	▶ Temporal Bone Lab 
17:00–18:45 Temporal Bone Lab		Temporal bone	
	<i>Instructors:</i>	<i>Mohan Kameswaran (Chennai, India)</i> <i>Peter Roland (Dallas, United States)</i>	
	<i>Tutors:</i>	<i>Jan Peter Thomas (Bochum, Germany)</i> <i>Martin Patscheider (Munich, Germany)</i>	
	P2-9	ePOSTER SESSION	▶ ePoster 2 
18:00–18:30 ePoster 2		Music therapy For details view p. 109	

SCIENTIFIC PROGRAM

SATURDAY | JUNE 21, 2014

PROGRAM OVERVIEW

	Philharmonie	Carl-Orff-Saal 	Black Box 	Chorprobensaal
		T9	T10	T11
08:00		07:30–08:30 Choosing the right electrode for a patient: cochlear duct length and malformation ▶ see page 72	07:30–08:30 Binaural hearing ▶ see page 72	07:30–08:30 Basic principles of flap design of the head region ▶ see page 72
	KN4	S36	RT11	S37
09:00	08:30–09:30 Vestibular implant ▶ see page 74	08:30–10:30 Robotic surgery: structured session and panel discussion ▶ see page 74	08:30–10:30 Challenging situations for middle ear implants ▶ see page 75	08:30–09:30 Rehabilitation ▶ see page 75
	S35			S38
	09:30–10:30 Vestibular function and CI ▶ see page 76			09:30–10:30 Quality of life ▶ see page 76
10:00	Coffee break			
11:00	S40	S41	RT13	RT14
	11:00–13:00 The single sided deaf child (SSD) ▶ see page 78	11:00–12:00 Maturation and plasticity ▶ see page 79	11:00–12:00 Severe otosclerosis: stapes surgery or CI? ▶ see page 79	11:00–12:00 Treasure the memory of Siebold – Japanese-German friendship ▶ see page 80
12:00		S44	S45	S46
		12:00–13:00 Support & aftercare assistive, listening devices, growing populations ▶ see page 82	12:00–13:00 Endoscopic cochlear implantation ▶ see page 82	12:00–13:00 Bimodal hearing ▶ see page 83
13:00	Lunch break			
14:00			Patients Forum	
			14:00–18:00 Patients session in German language ▶ see page 85	
15:00				
16:00				
17:00				
18:00				

SCIENTIFIC PROGRAM

SATURDAY | JUNE 21, 2014

PROGRAM OVERVIEW

Vortragssaal der Bibliothek 	Kleiner Konzertsaal 	ePoster 1	ePoster 2	Temporal Bone Lab	
T12 07:30–08:30 ARRISCOPE – advantages of digital surgical microscopy ▶ see page 72		VS2 07:30–08:30 Video session (without authors, poster area 2nd floor) ▶ see page 88	VS3 07:30–08:30 Video session (without authors, poster area 2nd floor) ▶ see page 88		08:00
		P1-11 08:30–09:30 Auditory neuropathy ▶ see page 110	P2-10 08:30–10:30 Sound coding ▶ see page 110	Hands-on Workshop IX 08:30–10:00 Temporal bone ▶ see page 76	09:00
S39 09:30–10:30 Music and CI II ▶ see page 77	RT12 09:30–10:30 Deep insertion vs. shallow insertion ▶ see page 78	P1-12 09:30–10:00 ABI – Auditory Brainstem Implants ▶ see page 111			10:00
Coffee break					
S42 11:00–12:00 Outcomes in children incl. multihandicaped children ▶ see page 80	S43 11:00–12:00 Genetics & gene therapy ▶ see page 81	P1-13 11:00–13:00 Bone conduction devices ▶ see page 112	P2-11 11:00–12:00 Complications ▶ see page 114	Hands-on Workshop X 11:00–12:30 Temporal bone ▶ see page 82	11:00
S47 12:00–13:00 Outcomes in adults ▶ see page 83	RT15 12:00–13:00 Tinnitus and non-auditory side effects ▶ see page 84		P2-12 12:00–13:00 Quality of life and economics ▶ see page 116		12:00
	Others 13:00–13:15 Announcement and farewell ▶ see page 84				13:00
	Others 14:00–16:00 Cochlear implants & hearing implants compact, structured session & round table in German language ▶ see page 85				14:00
					15:00
					16:00
					17:00
					18:00

T: TUTORIAL
KN: KEYNOTE LECTURE
S: SCIENTIFIC SESSION

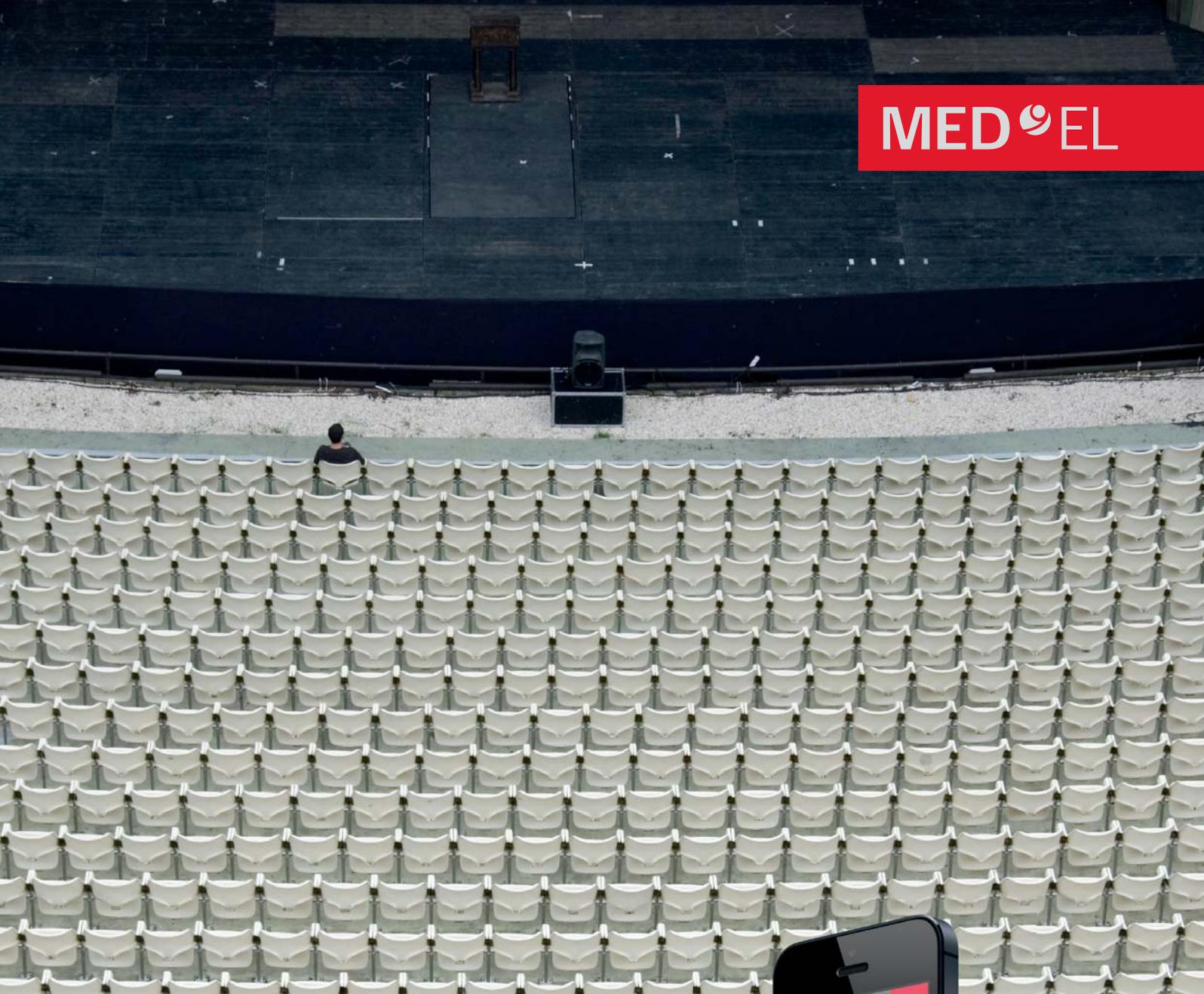
VS: VIDEO SESSION
WS: BERNSTEIN SPARKS WORKSHOP
P: ePOSTER SESSION

SAT: SATELLITE SYMPOSIUM
RT: ROUND TABLE
OTHERS: OTHERS

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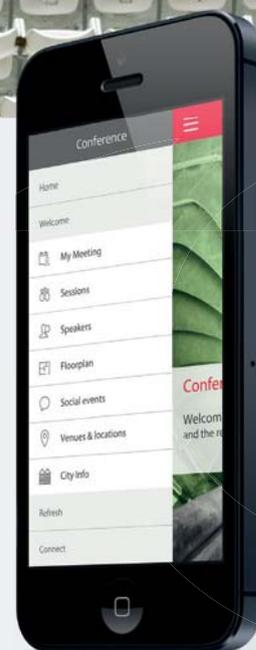
	T9	TUTORIAL	► Carl-Orff-Saal	
07:30–08:30 Carl-Orff-Saal		Choosing the right electrode for a patient: cochlear duct length and malformation <i>Supported by MED-EL</i>		
	Chair:	<i>Marco Caversaccio (Bern, Switzerland)</i>		
07:30–07:45	T9-1	Audiological results with increasing cochlear coverage <i>Thomas Lenarz (Hanover, Germany)</i>		
07:45–08:00	T9-2	Malformation and the appropriate electrode <i>Levent Sennaroglu (Ankara, Turkey)</i>		
08:00–08:15	T9-3	Deriving cochlear duct length and using software to choose the right electrode <i>George Alexiades (New York, United States)</i>		
08:15–08:30	T9-4	Evaluating cochlear length with radiological tracing from base to apex <i>Waldemar Würfel (Hanover, Germany)</i>		
	T10	TUTORIAL	► Black Box	
07:30–08:30 Black Box		Binaural hearing		
	Chair:	<i>Uwe Baumann (Frankfurt, Germany)</i>		
	Speaker:	<i>Stefan Zirn (Munich, Germany)</i> <i>Daniel Polteraer (Munich, Germany)</i> <i>Daniel Visser (Munich, Germany)</i>		
	T11	TUTORIAL	► Chorprobensaal	
07:30–08:30 Chorprobensaal		Basic principles of flap design of the head region		
	Chair:	<i>John Martin Hempel (Munich, Germany)</i>		
	Speaker:	<i>Christian Betz (Munich, Germany)</i> <i>Gerd Rasp (Innsbruck, Austria)</i> <i>Mario Zernotti (Cordoba, Argentina)</i>		
		Skin flap complications after cochlear implantation <i>Wojciech Gawęcki (Poznań, Poland)</i>		
	T12	TUTORIAL	► Vortragssaal der Bibliothek	
07:30–08:30 Vortragssaal der Bibliothek		ARRISCOPE – advantages of digital surgical microscopy <i>Supported by ARRI MEDICAL</i>		
	Chair:	<i>Jan Helms (Tuebingen, Germany)</i>		
	Speaker:	<i>Hans Kiening (Munich, Germany)</i>		
	VS2	VIDEO SESSION	► Poster area 2 nd floor	
07:30–08:30 Poster area 2 nd floor		Video session without authors For details view p. 88		
	VS3	VIDEO SESSION	► Poster area 2 nd floor	
07:30–08:30 Poster area 2 nd floor		Video session without authors For details view p. 88		



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		KN4	KEYNOTE SESSION	► Philharmonie	
08:30–09:30	Philharmonie		Vestibular implant		
		Chair:	<i>Robert Gürkov (Munich, Germany)</i> <i>Paul Van de Heyning (Antwerp, Belgium)</i>		
08:30–08:45		KN4-1	Vestibular implant for restoring sensation of head movement – why it is needed and why it will work <i>Charles Della Santina (Baltimore, United States)</i>		
08:45–09:00		KN4-2	Vestibular implant surgery: progression and pitfalls <i>Robert Stokroos (Maastricht, The Netherlands)</i>		
09:00–09:15		KN4-3	Artificial balance: restoration of the vestibulo-ocular reflex in humans with a prototype cochlear-vestibular implant <i>Angelica Pérez Fornos (Geneva, Switzerland)</i>		
09:15–09:30		KN4-4	Human Longitudinal studies of electrical stimulation of the vestibular periphery <i>Jay T. Rubinstein (Seattle, United States)</i>		
		S36	SCIENTIFIC SESSION	► Carl-Orff-Saal	
08:30–10:30	Carl-Orff-Saal		Robotic surgery: structured session and panel discussion		
		Chair:	<i>Marco Caversaccio (Bern, Switzerland)</i> <i>Omid Majdani (Hanover, Germany)</i>		
08:30–08:38		S36-1	Minimally invasive robotic cochlear implantation surgery <i>Marco Caversaccio (Bern, Switzerland)</i>		Invited talk
08:38–08:46		S36-2	The accuracy of a mini-stereotactic frame for minimally invasive cochlear implant surgery <i>Omid Majdani (Hanover, Germany)</i>		Invited talk
08:46–08:54		S36-3	Image-guided and robot-assisted cochleostomy for cochlear implantation: a feasibility study <i>Frederic Venail (Montpellier, France)</i>		
08:54–09:02		S36-4	Comparison of cochlear array insertion forces with three insertion techniques in temporal bone models <i>Yann Nguyen (Paris, France)</i>		
09:02–09:06		S36-5	Controlled minimal invasive multichannel access to the petrous apex or the cochlea <i>Thomas Klenzner (Duesseldorf, Germany)</i>		
09:06–09:10		S36-6	Navigation-guided transmodiolar approach for auditory nerve implantation via middle ear in human <i>Alexis Bozorg Grayeli (Dijon, France)</i>		
09:10–09:14		S36-7	Implantation of the completely ossified cochlea: an image-guided approach <i>Marc Bennett (Nashville, United States)</i>		
09:14–09:18		S36-8	Preliminary clinical evaluation of surgical planning for cochlear implantation surgeries <i>Nicolas Gerber (Bern, Switzerland)</i>		
09:18–09:22		S36-9	Laser-cochleostomy controlled by optical coherence tomography (OCT) – an experimental approach at a native cochlea of a pig <i>Marcel Weller (Duesseldorf, Germany)</i>		
09:22–09:30		S36-10	Intraoperative neuromonitoring of the facial nerve during minimally invasive cochlear implantation: a custom stimulating probe <i>Brett Bell (Bern, Switzerland)</i>		

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09:30–09:40	<i>Moderator:</i> Marco Caversaccio (Bern, Switzerland) Oliviers Sterkers (Clichy, France)	
	<i>Panelists:</i> Panel discussion Brett Bell (Bern, Switzerland) Alexis Bozorg Grayeli (Dijon, France) Thomas Klenzner (Duesseldorf, Germany) Omid Majdani (Hanover, Germany) Yann Nguyen (Paris, France) Frederic Venail (Montpellier, France)	
	RT11	ROUND TABLE ▶ Black Box 
08:30–10:30 Black Box	Challenging situations for middle ear implants	
	<i>Chair & Moderation:</i> Ad Snik (Nijmegen, The Netherlands) Matthias Tisch (Ulm, Germany)	
	<i>Panelists:</i> Panel Discussion Maurizio Barbara (Rome, Italy) Wolf-Dieter Baumgartner (Vienna, Austria) Pu Dai (Beijing, China) Henning Frenzel (Luebeck, Germany) Javier Gavilán (Madrid, Spain) Jean Pierr Lavieille (Marseille, France) John Martin Hempel (Munich, Germany) Christoph Matthias (Mainz, Germany) Robert Mlynski (Wuerzburg, Germany) Burkard Schwab (Hanover, Germany) Henryk Skarzynski (Warsaw, Poland)	
	Including:	
	RT11-2 Round window vibroplasty in open cavities: long term audiological and surgical issues Javier Gavilán (Madrid, Spain)	
	RT11-3 Retrosigmoid implantation of the Bonebridge™ bone conduction implant in patients with chronic otitis media Javier Gavilán (Madrid, Spain)	
	S37	SCIENTIFIC SESSION ▶ Chorprobensaal 
08:30–09:30 Chorprobensaal	Rehabilitation	
	<i>Chair:</i> Gottfried Diller (Heidelberg, Germany) Eva Karltorp (Stockholm, Sweden)	
08:30–08:50	S37-1 LENA technology: a window into spoken language access for children with cochlear implants Christine Yoshinaga-Itano (Boulder, United States)	Invited talk
08:50–09:10	S37-2 How to implement LENA in clinical practice Ulrika Löfkvist (Oslo, Norway)	Invited talk
09:10–09:30	Discussion	
	P1-11	ePOSTER SESSION ▶ ePoster 1 
08:30–09:30 ePoster 1	Auditory neuropathy For details view p. 110	
	P2-10	ePOSTER SESSION ▶ ePoster 2 
08:30–10:30 ePoster 2	Sound coding For details view p. 110	

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		TB9	HANDS-ON WORKSHOP IX	▶ Temporal Bone Lab	⋮
08:30–10:00	Temporal Bone Lab	Temporal bone			
		<i>Instructors:</i>	<i>Abdulrahman Hagr (Riyadh, Saudi Arabia)</i> <i>Heidi Olze (Berlin, Germany)</i> <i>Mattheus Vischer (Bern, Switzerland)</i>		
		<i>Tutors:</i>	<i>Stefan Volkenstein (Bochum, Germany)</i> <i>Martin Patscheider (Munich, Germany)</i>		
		S35	SCIENTIFIC SESSION	▶ Philharmonie	👂
09:30–10:30	Philharmonie	Vestibular function and CI			
		<i>Chair:</i>	<i>Herman Jenkins (Aurora, United States)</i> <i>Martin Westhofen (Aachen, Germany)</i>		
09:30–09:38	S35-1		Vestibular function changes and cochlear implantation <i>Herman Jenkins (Aurora, United States)</i>		
09:38–09:46	S35-2		Changes in balance control after cochlear implant surgery <i>John Allum (Basel, Switzerland)</i>		
09:46–09:50	S35-3		Retrospective longitudinal assessment of balance control in adult cochlear implantation <i>Aurélia Bascoul (Lyon, France)</i>		
09:50–09:54	S35-4		Electrooculography assessment of vestibular function in patients before and after cochlear implantation <i>Serafima Sugarova (St. Petersburg, Russia)</i>		
09:54–09:58	S35-5		Vestibular function in cochlear implant recipients <i>Arash Bayat (Ahvaz, Iran)</i>		
09:58–10:02	S35-6		Vestibular effects of cochlear implant and its surgical approach – review <i>Gloria Guerra Jiménez (Las Palmas de GC, Spain)</i>		
10:02–10:06	S35-7		Vestibular dysfunction related to cochlear implantation <i>Sergey Lilenko (Saint Petersburg, Russia)</i>		
10:06–10:10	S35-8		Posturographic measurements in cochlear implant patients with vertigo <i>Dietmar Basta (Berlin, Germany)</i>		
10:10–10:14	S35-9		Management of benign paroxysmal positional vertigo in patients after cochlear implantation surgery <i>Katarzyna Pietrasik (Warsaw, Poland)</i>		
10:14–10:18	S35-10		The skull vibration-induced nystagmus test in cochlear implanted adults <i>Sébastien Schmerber (Grenoble, France)</i>		
		S38	SCIENTIFIC SESSION	▶ Chorprobensaal	👂
09:30–10:30	Chorprobensaal	Quality of life			
		<i>Chair:</i>	<i>Christoph Arnoldner (Vienna, Austria)</i> <i>Neil Donnelly (Cambridge, United Kingdom)</i>		
09:30–09:34	S38-1		Clinical experiences with implementation of a voluntary registry of real-life patient-related benefits following treatment with implantable solutions at the Hanover Clinic <i>Marc Schüßler (Hanover, Germany)</i>		
09:34–09:38	S38-2		Preimplantational evaluation: prognosis estimation by data mining system <i>Gloria Guerra Jiménez (Las Palmas de Gran Canaria, Spain)</i>		
09:38–09:42	S38-3		Cochlear implantation among older adults: does advanced age impact speech understanding and quality of life? <i>Doug Sladen (Rochester, United States)</i>		
09:42–09:46	S38-4		20 years of cochlear implantation in the Slovak Republic: long term results, what we have learned <i>Milan Profant (Bratislava, Slovakia)</i>		

09:46–09:50	S38-5	Self-rated quality of life after unilateral cochlear implantation and its correlation with audiological findings <i>Cécile Parietti-Winkler (Nancy, France)</i>
09:50–09:54	S38-6	CI in patients with single sided deafness – positive effects on various areas of life <i>Heidi Olze (Berlin, Germany)</i>
09:54–09:58	S38-7	Confrontation of quality of life to hearing performances in cochlear implantees <i>Alexis Bozorg Grayeli (Dijon, France)</i>
09:58–10:06	S38-8	Sound quality perception and quality of life in adults with profound bilateral deafness and unilateral cochlear implantation <i>Luis Lassaletta (Madrid, Spain)</i>
10:06–10:10	S38-9	Long-term quality-of-life outcomes (QOL) after cochlear implant <i>Dona Jayakody (Subiaco, Australia)</i>
10:10–10:14	S38-10	Speech recognition and quality of life one year after cochlear implantation in adults <i>Elina Mäki-Torkko (Linköping, Sweden)</i>
10:14–10:18	S38-11	Quality of life in young adults with cochlear implants <i>Jenna Holke (New York, United States)</i>

S39 SCIENTIFIC SESSION

▶ Vortragssaal der Bibliothek



09:30–10:30 Vortragssaal der Bibliothek		Music and CI II
	<i>Chair:</i>	<i>Kate Gfeller (Iowa City, United States)</i> <i>Yvonne Stelzig (Koblenz, Germany)</i>
09:30–09:34	S39-1	Perception of emotions and movements in music by children with cochlear implants <i>Virginia Driscoll (Iowa City, United States)</i>
09:34–09:42	S39-2	Patterns of participation of pediatric CI recipients in formal music instruction: factors influencing persistence and success <i>Kate Gfeller (Iowa City, United States)</i>
09:42–09:46	S39-3	Perception of spectrally complex music and speech sounds: the impact of musical training on behavioral and CAEP outcomes <i>Kate Gfeller (Iowa City, United States)</i>
09:46–09:50	S39-4	Development and evaluation of a music rehabilitation program with adult cochlear implant users <i>Rachel van Besouw (Southampton, United Kingdom)</i>
09:50–09:54	S39-5	Participation of children with cochlear implants in music education and activities: effects of family involvement <i>Virginia Driscoll (Iowa City, United States)</i>
09:54–09:58	S39-6	Toward a model of music complexity for cochlear implants <i>Waldo Nogueira Vazquez (Hanover, Germany)</i>
09:58–10:02	S39-7	An analysis of the music perception and appreciation of pre- and postlingually deafened adult cochlear implant recipients <i>Michelle Moran (Melbourne, Australia)</i>
10:02–10:06	S39-8	A qualitative assessment of pitch-perception skills of cochlear implant and hearing aid users <i>Dona Jayakody (Subiaco, Australia)</i>

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RT12		ROUND TABLE	► Kleiner Konzertsaal	
09:30–10:30	Kleiner Konzertsaal	Deep insertion vs. shallow insertion <i>Chair & Moderation:</i> Gunesh Rajan (Fremantle, Australia) Katrien Vermeire (Antwerp, Belgium)		
09:30–09:38	RT12-1	Introduction: rate and place coding: which is the real pitch? <i>David Landsberger (New York, United States)</i> Panel discussion <i>Panelists:</i> Robert Briggs (East Melbourne, Australia) Angel Ramos (Las Palmas, Spain) Hinrich Staecker (Kansas City, United States) Paul Van de Heyning (Antwerp, Belgium)		
P1-12		ePOSTER SESSION	► ePoster 1	
09:30–10:00	ePoster 1	ABI – Auditory Brainstem Implants For details view p. 111		
10:30–11:00	Coffee break			
S40		SCIENTIFIC SESSION	► Philharmonie	
11:00–13:00	Philharmonie	The single sided deaf child (SSD) <i>Chair:</i> Karin Schorn (Munich, Germany) Ona Bo Wie (Oslo, Norway)		
11:00–11:12	S40-1	The unilaterally hearing-impaired child <i>Annette Leonhardt (Munich, Germany)</i>		Invited talk
11:12–11:16	S40-2	Management of single side deafness in the pediatric population: a survey of current UK practice <i>Justine Maggs (Birmingham, United Kingdom)</i>		
11:16–11:20	S40-3	Unilateral hearing loss in infants: why one ear is not enough <i>Yetta Abrahams (Sydney, Australia)</i>		
11:20–11:24	S40-4	Single sided deafness in children – a first case study <i>Silke Kunze (Munich, Germany)</i>		
11:24–11:28	S40-5	Cochlear implant for rehabilitation of unilateral deafness in children: first experiences <i>Dayse Tavora-Vieira (Perth, Australia)</i>		
11:28–11:36	S40-6	Rehabilitation of children with single side deafness after cochlea implantation <i>Sandra Scholz (Potsdam, Germany)</i>		
11:36–11:40	S40-7	Audiological results of single sided deaf children with cochlear implants <i>Sebastian Thömmes (Wuerzburg, Germany)</i>		
11:40–11:44	S40-8	Psychological/audiological follow up in unilateral deaf children with cochlear implant <i>Heike Kühn (Wuerzburg, Germany)</i>		
11:44–11:48	S40-9	Detection of partial deafness during hearing screening in school age children <i>Anna Piotrowska (Kajetany/Warsaw, Poland)</i>		
11:48–12:33		Panel discussion <i>Moderation:</i> Susan Arndt (Freiburg, Germany) Joachim Müller (Munich, Germany) <i>Panelists:</i> TBA		

S41 SCIENTIFIC SESSION		► Carl-Orff-Saal	
11:00–12:00 Carl-Orff-Saal	Maturation and plasticity		
	<i>Chair:</i>	<i>Jochen Tillein (Frankfurt, Germany)</i> <i>Eric Truy (Lyon, France)</i>	
11:00–11:04	S41-1	The role of the auditory cortex in pediatric cochlear implantation – a need for focused research <i>Jane Black (Brisbane, Australia)</i>	
11:04–11:12	S41-2	Long-term electrophysiological survey of auditory maturation in cochlear implantees <i>Eric Truy (Lyon, France)</i>	
11:12–11:16	S41-3	Molecularly regulated neuroplasticity in childhood deafness treated with cochlear implantation – results of first study <i>Monika Matusiak (Warsaw, Poland)</i>	
11:16–11:20	S41-4	Neuronal coding of interaural time differences in the long deaf auditory system: effects of age at deafness onset <i>Martin Kempe (Wuerzburg, Germany)</i>	
11:20–11:24	S41-5	Evidence of electrophysiological changes in deaf children of Cuban cochlear implant program <i>Lidia Charroó-Ruiz (Havana, Cuba)</i>	
11:24–11:32	S41-6	Effects of single sided deafness (SSD) on binaural processing in the primary auditory cortex of cats <i>Jochen Tillein (Frankfurt, Germany)</i>	
11:32–11:40	S41-7	Brain responses to language-relevant musical features in adolescent cochlear implant users before and after an intensive music training program <i>Bjørn Petersen (Aarhus, Denmark)</i>	
11:40–11:44	S41-8	PET scan evidence of prognostic value of visual cross-modal reorganisation after adult cochlear implantation <i>Olivier Deguine (Toulouse, France)</i>	
11:44–11:52	S41-9	A frequency-place map for electrical stimulation in cochlear implants: change over time <i>Katrien Vermeire (Antwerp, Belgium)</i>	
RT13 ROUND TABLE		► Black Box	
11:00–12:00 Black Box	Severe otosclerosis: stapes surgery or CI?		
	<i>Chair & Moderation:</i>	<i>Shakeel Saeed (London, United Kingdom)</i> <i>Robert Vincent (Béziers, France)</i>	
	<i>Panelists:</i>	<i>Jean-Pierre Bébear (Bordeaux, France)</i> <i>Carlos Curet (Cordoba, Argentina)</i> <i>Imre Gerlinger (Pecs, Hungary)</i> <i>Bernard Gil Fraysse (Toulouse, France)</i> <i>Thomas Lenarz (Hanover, Germany)</i> <i>Harold Pillsbury (Chapel Hill, United States)</i>	
		Including:	
	RT13-2	Otosclerosis and cochlear implants: technical features, medium and long-term results <i>Jean-Pierre Bébear (Bordeaux, France)</i>	
	RT13-3	Cochlear implant in far advanced otosclerosis. Performance-complications-long term results <i>Carlos Curet (Cordoba, Argentina)</i>	
	RT13-4	Far advanced otosclerosis: stapedotomy or cochlear implantation <i>Bilal Kabbara (Toulouse, France)</i>	
	RT13-5	Active middle ear implants: an alternative to improve hearing in advanced otosclerosis <i>Mario Zernotti (Cordoba, Argentina)</i>	

	RT14	ROUND TABLE	► Chorprobensaal	
11:00–12:00 Chorprobensaal		Treasure the memory of Siebold – Japanese-German friendship		
	<i>Chair & Moderation:</i>	<i>Haruo Takahashi (Nagasaki, Japan)</i> <i>Jan Helms (Tuebingen, Germany)</i>		
	RT14-1	Treasure the memory of Siebold – Japanese-German friendship <i>Haruo Takahashi (Nagasaki, Japan)</i>		
	RT14-2	Being doctor – being patient <i>Yukihiko Kanda (Nagasaki, Japan)</i>		
	RT14-3	Estimation of the cochlear duct length for MED-EL standard electrode arrays <i>Norio Yamamoto (Kyoto, Japan)</i>		
	<i>Panelists:</i>	<i>Panel discussion</i> <i>Katsumi Doi (Osaka-Sayama, Japan)</i> <i>John Martin Hempel (Munich, Germany)</i> <i>Roland Laszig (Freiburg, Germany)</i> <i>Joachim Müller (Munich, Germany)</i> <i>Tetsuya Tono (Miyazaki, Japan)</i> <i>Shin-Ichi Usami (Matsumoto, Japan)</i>		
	S42	SCIENTIFIC SESSION	► Vortragssaal der Bibliothek	
11:00–12:00 Vortragssaal der Bibliothek		Outcomes in children incl. multihandicaped children		
	<i>Chair:</i>	<i>Silvia Breuning (Buenos Aires, Argentina)</i> <i>Maria Huber (Salzburg, Austria)</i>		
11:00–11:04	S42-1	Auditory perception in cochlear implanted children with additional disabilities <i>Leila Monshizadeh (Shiraz, Iran)</i>		
11:04–11:08	S42-2	Predictors of language and auditory skills in Egyptian children with cochlear implant <i>Asmaa Abdel Hamid (Cairo, Egypt)</i>		
11:08–11:12	S42-3	Comparison of the speech syntactic features between hearing-impaired and normal hearing children <i>Hamid Tayarani Niknezhad (Mashhad, Iran)</i>		
11:12–11:16	S42-4	Auditory feedback of speech production in children with cochlear implants and hearing aids <i>Inna Koroleva (St. Petersburg, Russia)</i>		
11:16–11:20	S42-5	Early cognitive and listening links: early call. The development and implementation of a profile to record the long term progress following cochlear implantation of children with severe to profound and multiple learning difficulties <i>Amanda Odell (Nottingham, United Kingdom)</i>		
11:20–11:24	S42-6	Results of cochlear implantation in children with auditory neuropathy spectrum disorder <i>Natalie Loundon (Paris, France)</i>		
11:24–11:28	S42-7	Perception, speech and intelligibility rate in profound deaf children with cochlear implantation after congenital cytomegalovirus infection <i>Natalie Loundon (Paris, France)</i>		
11:28–11:32	S42-8	Evaluation of quality of life, vertigo and auditory and language development in pediatric CI-users <i>Józef Mierzwiński (Bydgoszcz, Poland)</i>		
11:32–11:40	S42-9	Electrical complementation end electric acoustic stimulation in younger children after partial deafness treatment <i>Malgorzata Zgoda (Kajetany/Warsaw, Poland)</i>		
11:40–11:44	S42-10	Outcomes of cochlear implantation in children with CHARGE syndrome <i>Joong Ho Ahn (Seoul, Korea)</i>		
11:44–11:48	S42-11	Bilateral hearing in pre-school children with cochlear implants <i>Anita Obrycka (Kajetany/Warsaw, Poland)</i>		

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11:48–11:52	S42-12	Pediatric patients with high frequency hearing loss: considerations for sequential bilateral cochlear implantation <i>Elizabeth O'Neill (Boston, United States)</i>
11:52–11:56	S42-13	Mental health problems in adolescent CI users <i>Maria Huber (Salzburg, Austria)</i>
	S43	SCIENTIFIC SESSION ▶ Kleiner Konzertsaal 
11:00–12:00 Kleiner Konzertsaal		Genetics & gene therapy
	<i>Chair:</i>	<i>Hubert Löwenheim (Oldenburg/Tuebingen, Germany)</i> <i>Shin-Ichi Usami (Matsumoto, Japan)</i>
11:00–11:08	S43-1	Clinical application of genetic testing for cochlear implantation candidates <i>Shin-Ichi Usami (Matsumoto, Japan)</i>
11:08–11:12	S43-2	Genetically determined hearing loss – perspectives and diagnostic capabilities of next-generation sequencing <i>Agnieszka Pollak (Kajetany/Warsaw, Poland)</i>
11:12–11:16	S43-3	The pattern of distribution of the 35delG mutations across Europe <i>Luminița Rădulescu (Iași, Romania)</i>
11:16–11:20	S43-4	Audiological profile of patients with the mutation m.A1555G <i>Urszula Lechowicz (Kajetany/Warsaw, Poland)</i>
11:20–11:24	S43-5	The prevalence of GJB2 mutations in a large Western European cochlear implant program <i>William Burke (Hanover, Germany)</i>
11:24–11:28	S43-6	Whole-exome sequencing and linkage analysis to identify a novel N714H mutation in WFS1 gene associated with autosomal dominant hearing loss <i>Agnieszka Pollak (Kajetany/Warsaw, Poland)</i>
11:28–11:32	S43-7	Postlingual late-onset hearing loss as a m.3243A>G mutation phenotype <i>Urszula Lechowicz (Kajetany/Warsaw, Poland)</i>
11:32–11:36	S43-8	Identification of novel functional null allele of SLC26A4 associated with enlarged vestibular aqueduct and its possible implication for future drug therapy <i>Jeong Hun Jang (Daegu, Korea)</i>
11:36–11:44	S43-9	Anatomical and functional effects of hearing preservation and neurotrophin gene therapy in ears with cochlear implants <i>Bryan Pflingst (Ann Arbor, United States)</i>
11:44–11:48	S43-10	Generating induced neurons from cochlear cells to replace lost or damaged auditory neurons in the mammalian inner ear <i>Alain Dabdoub (Toronto, Canada)</i>
11:48–11:52	S43-11	BDNF gene therapy rescues auditory neurons in connexin 26 null mice <i>Yehoash Raphael (Ann Arbor, United States)</i>
11:52–11:56	S43-12	New mutations in the gene for otoferlin (OTOF) in Argentinean patients with cochlear implants and auditory neuropathy <i>Carlos Curet (Cordoba, Argentina)</i>
11:56–12:00	S43-13	Neurotrophin gene therapy in deaf ears: correlating neuronal survival and re-sprouting with the condition of the auditory epithelium <i>Yehoash Raphael (Ann Arbor, United States)</i>
12:00–12:04	S43-14	Study of genetic background of hearing loss among group polish CI patients <i>Urszula Lechowicz (Kajetany/Warsaw, Poland)</i>
	P1-13	ePOSTER SESSION ▶ ePoster 1 
11:00–13:00 ePoster 1		Bone conduction devices For details view p. 112

SCIENTIFIC PROGRAM

SATURDAY | JUNE 21, 2014

PROGRAM DETAILS

	P2-11	ePOSTER SESSION	▶ ePoster 2	
11:00–12:00	ePoster 2	Complications	For details view p. 114	
	TB10	HANDS-ON WORKSHOP X	▶ Temporal Bone Lab	
11:00–12:30	Temporal Bone Lab	Temporal bone		
	<i>Instructors:</i>	<i>Vladimir Kuzovkov (Saint-Petersburg, Russian Federation)</i> <i>Manikoth Manoj (Calicut, India)</i>		
	<i>Tutors:</i>	<i>Martin Patscheider (Munich, Germany)</i> <i>Stefan Volkenstein (Bochum, Germany)</i>		
	S44	SCIENTIFIC SESSION	▶ Carl-Orff-Saal	
12:00–13:00	Carl-Orff-Saal	Support & aftercare assistive, listening devices, growing populations		
	<i>Chair:</i>	<i>Liat Kishon-Rabin (Tel-Aviv, Israel)</i> <i>Caroline Krön (Munich, Germany)</i>		
12:00–12:08	S44-1	10-year outcomes from a high-level satellite CI center <i>Douglas Backous (Seattle, United States)</i>		
12:08–12:16	S44-2	Review of demographic characteristics of the cochlear implant recipients at an established cochlear implant program in Riyadh, Saudi Arabia <i>Sara AlMulhem (Riyadh, Saudi Arabia)</i>		
12:16–12:20	S44-3	Cochlear implantation – what it takes to sustain & maintain? <i>Nishita Mohandas (Mumbai, India)</i>		
12:20–12:24	S44-4	HELP! My sound processor does not work: cochlear connect, a new technology to enhance service support <i>Saji Maruthurkkara (Macquarie University, Australia)</i>		
12:24–12:32	S44-5	Cochlear implant self-fitting <i>Saji Maruthurkkara (Macquarie University, Australia)</i>		
12:32–12:36	S44-6	Wireless, portable, pediatric cochlear implant fitting via the nucleus remote assistant: transforming service delivery <i>Yetta Abrahams (Sydney, Australia)</i>		
12:36–12:44	S44-7	Rehabilitation, inclusion and inclusive education of children with hearing impairment in developing countries and supportive projects <i>Dagmar Herrmannova (Prague, Czech Republic)</i>		
	S45	SCIENTIFIC SESSION	▶ Black Box	
12:00–13:00	Black Box	Endoscopic cochlear implantation		
	<i>Chair:</i>	<i>Thomas Klenzner (Duesseldorf, Germany)</i> <i>Lela Migirov (Sheba, Israel)</i>		
12:00–12:12	S45-1	The feasibility of endoscopic transcanal approach for insertion of various cochlear electrodes <i>Lela Migirov (Sheba, Israel)</i>		Invited talk
12:12–12:20	S45-2	Cochlear implant surgery through natural orifices <i>Victor Slavutsky (Barcelona, Spain)</i>		
12:20–12:28	S45-3	Report of endoscopic cochlear implantation <i>Miriam Redleaf (Chicago, United States)</i>		
12:28–12:36	S45-4	Endoscope assisted cochlear implantation via the suprameatal approach <i>Mohamed Badr-El-Dine (Alexandria, Egypt)</i>		
12:36–12:40	S45-5	Endoscopic cochlear implantation in inner/middle ear malformations <i>Daniele Marchioni (Modena, Italy)</i>		

12:40–12:48	S45-6	Advantages, disadvantages and future perspectives of endoscopic CI <i>Joao Flávio Nogueira (Fortaleza, Brazil)</i>
12:48–12:52	S45-7	A call for caution <i>Muaz Tarabichi (Dubai, United Arab Emirates)</i>
	S46	SCIENTIFIC SESSION ▶ Chorprobensaal 
12:00–13:00		Bimodal hearing
Chorprobensaal	<i>Chair:</i>	<i>Françoise Sterkers-Artières (Palavas Les Flots, France)</i> <i>Tobias Rader (Frankfurt, Germany)</i>
12:00–12:08	S46-1	The bimodal benefits of cochlear implantation for unilateral deafness <i>Dayse Tavora-Vieira (Perth, Australia)</i>
12:08–12:12	S46-2	Benefit of a CROS device for unilateral cochlear implant users <i>Christof Stieger (Bern, Switzerland)</i>
12:12–12:16	S46-4	Listening effort in bimodal cochlear implant users <i>Carina Pals (Groningen, The Netherlands)</i>
12:16–12:24	S46-5	Speech perception performance in a group of post-verbal adults with bimodal stimulation <i>Maria Consolazione Guarnaccia (Modena, Italy)</i>
12:24–12:28	S46-6	Preliminary results of a bimodal fitting formula <i>Paul Govaerts (Antwerp-Deurne, Belgium)</i>
12:28–12:32	S46-7	Optimization of a bimodal fitting formula <i>Josef Chalupper (Hanover, Germany)</i>
12:32–12:36	S46-8	Cochlear implantation in adults with asymmetric sensorineural hearing loss <i>Maarten van Loon (Amsterdam, The Netherlands)</i>
12:36–12:40	S46-9	Benefits of bimodal hearing in adolescents and adults with pre-lingual deafness after Med El cochlear implant <i>Mariana de Castro (Belo Horizonte, Brazil)</i>
	S47	SCIENTIFIC SESSION ▶ Vortragssaal der Bibliothek 
12:00–13:00		Outcomes in adults
Vortragssaal der Bibliothek	<i>Chair:</i>	<i>Liat Kishon-Rabin (Tel-Aviv, Israel)</i> <i>Doug Sladen (Rochester, United States)</i>
12:00–12:08	S47-1	Adult cochlear implant candidacy: revised indications clinical trial results <i>Doug Sladen (Rochester, United States)</i>
12:08–12:12	S47-2	Cochlear implant outcomes in the geriatric population <i>Michele Gandolfi (New York, United States)</i>
12:12–12:16	S47-3	The quality of life after cochlear implantation in adults <i>Hanna Czerniejewska-Wolska (Poznań, Poland)</i>
12:16–12:24	S47-4	Mental health and cochlear implantation in postlingually deafened adults <i>Joanna Kobosko (Warsaw, Poland)</i>
12:24–12:28	S47-6	Effective use of sensitive period in hearing disabled adults: Success of cochlear implantation in adult prelingual/perilingual recipients <i>Özgül Akin Senkal (Adana, Turkey)</i>
12:28–12:32	S47-7	Impacts of cochlear implantation on the lives of prelingually deaf adults who received a cochlear implant during adulthood: a qualitative study <i>Louise Duchesne (Trois-Rivières, Canada)</i>
12:32–12:36	S47-8	Outcomes of cochlear implantation for long-term unilateral deafness <i>Dayse Tavora-Vieira (Perth, Australia)</i>
12:36–12:40	S47-9	Musician effect: does it matter for cochlear-implants? <i>Rolien Free (Groningen, The Netherlands)</i>

SCIENTIFIC PROGRAM

SATURDAY | JUNE 21, 2014

PROGRAM DETAILS

12:40–12:44	S47-10	Identifying prosody expressed in New Zealand English – a study on cochlear implant and hearing aid users <i>Dona Jayakody (Subiaco, Australia)</i>
12:44–12:48	S47-11	The comparative study of reading comprehension in hearing and deaf Persian students <i>Fatemeh Nikkhou (Tehran, Iran)</i>
12:48–12:52	S47-12	Selective auditory attention: can successful long-term users of cochlear implants match performance of normal hearing peers on this cognitive demanding task? <i>Liat Kishon-Rabin (Tel-Aviv, Israel)</i>
12:52–13:56	S47-13	There is a fluctuating outcome of cochlear implants in hearing loss caused by vestibular schwannomas <i>James Ramsden (Oxford, United Kingdom)</i>

RT15 ROUND TABLE ▶ Kleiner Konzertsaal**12:00–13:00**

Kleiner Konzertsaal

Tinnitus and non-auditory side effects

Chair & Moderation: *Marcus Atlas (Perth, Australia)*
Heidi Olze (Berlin, Germany)

Panel discussion
Panelists: *Marcus Atlas (Perth, Australia)*
Robert Briggs (East Melbourne, Australia)
Yukihiko Kanda (Nagasaki, Japan)
Elena Levina (St.Petersburg, Russia)
Angel Ramos (Las Palmas, Spain)
Winfried Schlee (Regensburg, Germany)
Hinrich Staecker (Kansas City, United States)
Paul Van de Heyning (Antwerp, Belgium)

Including:

- RT15-2** A consideration about the tinnitus suppressing effect by cochlear implant
Yukihiko Kanda (Nagasaki, Japan)
- RT15-3** Moment-to-moment variability of the auditory phantom perception in chronic tinnitus
Winfried Schlee (Regensburg, Germany)
- RT15-4** Cochlear implantation in patients with tinnitus
Elena Levina (St.Petersburg, Russia)
- RT15-5** Systematic review of cochlear implantation and tinnitus
Marcus Atlas (Perth, Australia)

P2-12 ePOSTER SESSION ▶ ePoster 2**12:00–13:00**

ePoster 2

Quality of life and economics
For details view p. 116

OTHERS ▶ Kleiner Konzertsaal**13:00–13:15**

Kleiner Konzertsaal

Announcement and farewell**13:15–14:00****Lunch**

PATIENTS FORUM		▶ Black Box	⋮
14:00–18:00 Black Box	Patients session in German language		
	<i>Moderation: Stefanie Rühl (Munich, Germany) Regine Zille (Munich, Germany)</i>		
14:00–14:15	Begrüßung <i>Stefanie Rühl (Munich, Germany) Regine Zille (Munich, Germany)</i>		
14:15–14:35	Vorstellung des Bayerischen Cochlea Implantat Verband e. V. <i>Regine Zille (Munich, Germany)</i>		
14:35–14:55	CI-Nachsorge an der LMU <i>Sandra Gollwitzer (Munich, Germany)</i>		
14:55–15:15	Kongress Neuheiten im Bereich der Rehabilitation <i>Caroline Krön (Munich, Germany) Stephanie Rühl (Munich, Germany)</i>		
15:15–15:30	CI-Forschung an der LMU <i>Daniel Visser (Munich, Germany)</i>		
15:30–16:30	Kaffeepause und Austausch von CI-Betroffenen mit niedergelassenen HNO-Ärzten		
	<i>Moderation: Caroline Krön (Munich, Germany) Regine Zille (Munich, Germany)</i>		
16:30–16:50	Sanfte Narkose zur Cochlea- und Hörimplantatversorgung <i>Tanja Hüttl (Munich, Germany)</i>		
16:50–17:10	Neues bei der CI-Chirurgie <i>Joachim Müller (Munich, Germany)</i>		
17:10–17:30	Die CI-OP aus der Sicht einer OP-Schwester <i>Martina Fischer (Munich, Germany)</i>		
17:30–17:45	Neues bei aktiven Mittelohrimplantaten <i>John Martin Hempel (Munich, Germany)</i>		
17:45–18:00	Stimme und CI <i>Elke Maria Schuster (Munich, Germany)</i>		
OTHERS		▶ Kleiner Konzertsaal	⋮
14:00–16:00 Kleiner Konzertsaal	Cochlear implants & hearing implants compact, structured session & round table in German language		
	<i>Chair & Moderator: Barbara Arnold (Munich, Germany) Bernhard Junge-Hülsing (Starnberg, Germany)</i>		
	Cochlear implants – a remarkable past and a brilliant future <i>Blake Wilson (Durham, United States)</i>		
	Rundtischgespräch: Was der niedergelassene HNO Arzt über Cochlea Implantate wissen möchte <i>John Martin Hempel (Munich, Germany) Joachim Müller (Munich, Germany) Blake Wilson (Durham, United States)</i>		
	Lernzielkontrolle		



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POSTER ABSTRACTS

POSTER OVERVIEW

Video Session Area

located within poster area 2nd floor

Thursday, June 19, 2014	2 nd floor	VS1	Video session	10:30–12:30	Poster area	88
Saturday, June 21, 2014		VS2	Video session without authors	07:30–08:30	Poster area	88
		VS3	Video session without authors	07:30–08:30	Poster area	88

ePoster Sessions

ePoster 1 are located within poster session area 1 (1st floor)

ePoster 2 are located within poster area 2nd floor

Thursday, June 19, 2014	1 st floor	P1-1	Anatomy beauty of the cochlea	10:30–11:45	ePoster 1	89
		P1-2	Radiology	11:45–12:30	ePoster 1	89
		P1-3	Hearing & structure preservation I	13:30–15:00	ePoster 1	90
		P1-4	Hearing & structure preservation II	15:00–16:30	ePoster 1	93
		P1-5	Rehabilitation	17:00–18:45	ePoster 1	94
	2 nd floor	P2-1	Medical issues	13:30–14:30	ePoster 2	91
		P2-2	Middle ear implants	14:30–16:30	ePoster 2	92
P2-3		Fitting	17:00–18:45	ePoster 2	95	
Friday, June 20, 2014	1 st floor	P1-6	Outcomes adults	10:30–11:30	ePoster 1	97
		P1-7	Outcomes children	11:30–12:30	ePoster 1	101
		P1-8	Surgical issues: revision/ re-implantation, malformation & robotic surgery	13:30–15:00	ePoster 1	103
		P1-9	Difficult patients, atypical or challenging situations	15:00–16:30	ePoster 1	105
		P1-10	Rehabilitation for children – speech production, speech perception	17:00–18:45	ePoster 1	107
	2 nd floor	P2-4	Objective measures	10:30–12:30	ePoster 2	99
		P2-5	Cochlear implants around the world	13:30–15:00	ePoster 2	104
		P2-6	Bimodal/binaural hearing	15:00–16:30	ePoster 2	107
		P2-7	Cochlear implants in the elderly	17:00–18:00	ePoster 2	109
		P2-9	Music therapy	18:00–18:30	ePoster 2	109
Saturday, June 21, 2014	1 st floor	P1-11	Auditory neuropathy	08:30–09:30	ePoster 1	110
		P1-12	ABI – Auditory Brainstem Implants	09:30–10:00	ePoster 1	111
		P1-13	Bone conduction devices	11:00–13:00	ePoster 1	112
	2 nd floor	P2-10	Sound coding	08:30–10:30	ePoster 2	110
		P2-11	Complications	11:00–12:00	ePoster 2	114
		P2-12	Quality of life and economics	12:00–13:00	ePoster 2	116

All posters can be viewed in poster viewing area 1 (1st floor) and poster viewing area 2 (2nd floor) throughout the entire conference.

VIDEO SESSIONS

Thursday, June 19, 2014

	VS1	VIDEO SESSION	▶ Poster area 2 nd floor	
10:30–12:30 Poster area 2 nd floor		Video session		
	<i>Chair:</i>	<i>Mark Praetorius (Heidelberg, Germany)</i> <i>Burkard Schwab (Hanover, Germany)</i>		
10:30–10:42	VS1-1	Endomeatal approach(ema)partially ossified cochlea <i>Victor Slavutsky (Barcelona, Spain)</i>		
10:42–10:54	VS1-2	Partial deafness treatment – 6 surgical steps <i>Piotr Skarzynski (Warsaw, Poland)</i>		
10:54–11:06	VS1-3	Complications of cochlear implant surgery: report on 100 sequential cases <i>Ahmed Khashaba (Cairo, Egypt)</i>		
11:06–11:18	VS1-4	Approaches to manage facial nerve obscuring round window visualization <i>Manoj Puthiyaparambil (Calicut, India)</i>		
11:18–11:30	VS1-5	Baha attract implantation – surgical procedure <i>Maciej Mrowka (Warsaw, Poland)</i>		
11:30–11:42	VS1-6	Bonebridge implantation – surgical procedure <i>Marek Porowski (Warsaw, Poland)</i>		
11:42–11:54	VS1-7	Direct stimulation of the round window with Vibrant Soundbridge – surgical procedure <i>Piotr Fronczak (Warsaw, Poland)</i>		
11:54–12:06	VS1-8	Middle ear implantation procedure with CODACS – surgical procedure <i>Piotr Fronczak (Warsaw, Poland)</i>		
12:06–12:18	VS1-9	Implantation of a Vibrant Soundbridge device in congenital malformations of the middle ear – surgical procedure <i>Piotr Fronczak (Warsaw, Poland)</i>		
12:18–12:24	VS1-10	Cochlear Implant Surgery: Standard Procedure for Adults <i>Joachim Müller (Munich, Germany)</i>		
12:24–12:30	VS1-11	Cochlear Implant Surgery: Standard Procedure for Children <i>Joachim Müller (Munich, Germany)</i>		

Saturday, June 21, 2014

	VS2	VIDEO SESSION	▶ Poster area 2 nd floor	
07:30–08:30 Poster area 2 nd floor		Video session without authors		
	VS3	VIDEO SESSION	▶ Poster area 2 nd floor	
07:30–08:30 Poster area 2 nd floor		Video session without authors		

	P1-1 ePOSTER SESSION 
10:30–11:45 ePoster 1	<p>Anatomy beauty of the cochlea</p> <p><i>Chair: Helge Rask Andersen (Uppsala, Sweden)</i> <i>Waldemar Würfel (Hanover, Germany)</i></p> <p>P1-1-1 Optical coherence tomography guided inner ear decalcification and cochlear anatomy <i>Saleh Mohebbi (Hanover, Germany)</i></p> <p>P1-1-2 Cochlear Coverage – objective metric parameters in cochlear implant imaging for the individual cochlear length <i>Waldemar Würfel (Hanover, Germany)</i></p> <p>P1-1-3 Cochlear duct length estimation: adaptation of escude's equation <i>Wilhelm Wimmer (Bern, Switzerland)</i></p> <p>P1-1-4 Estimation of Cochlear duct length by a logarithmic spiral model <i>Waldemar Würfel (Hanover, Germany)</i></p> <p>P1-1-5 Review of cochlea anatomy <i>Yalda Jabbari Moghaddam (Tabriz, Iran)</i></p> <p>P1-1-6 High resolution computed tomography based length assessments of the cochlea – an accuracy evaluation <i>Ulrich Kisser (Munich, Germany)</i></p> <p>P1-1-7 Numerical simulations of the cochlear implant electrode insertion <i>Romuald Dobosz (Warsaw, Poland)</i></p> <p>P1-1-8 Human cochlea: semi-automatic anatomical measurements on μCT 3D surface models <i>Hans Kjer (Lyngby, Denmark)</i></p> <p>P1-1-9 Multichannel cochlear implant in the Mongolian Gerbil <i>Armin Wiegner (Wuerzburg, Germany)</i></p> <p>P1-1-10 Pax2 and Sox2 can induce hair cell fate in inner ear progenitors <i>Judith Kempfle (Boston, United States)</i></p> <p>P1-1-11 Towards a stem cell-based “ototoxic hearing loss-in-a-dish” model <i>Marcus Müller (Tuebingen, Germany)</i></p> <p>P1-1-12 Regenerative stem cell therapy with umbilical cord mesenchymal stromal cells in deaf animal model <i>Sung-Hun Lee (Seoul, Korea)</i></p> <p>P1-1-13 Auditory nerve plasticity follow up by ECAP in patients with AN/AD after cochlear implant <i>Leila Azadeh Ranjbar (Tehran, Iran)</i></p> <p>P1-1-14 Cochlear implant users show an auditory attentional filter in an acoustic listening task <i>Dona Jayakody (Subiaco, Australia)</i></p>
	P1-2 ePOSTER SESSION 
11:45–12:30 ePoster 1	<p>Radiology</p> <p><i>Chair: Isabelle Mosnier (Paris, France)</i> <i>Dirk Mürbe (Dresden, Germany)</i></p> <p>P1-2-1 Virtual endoscopy to plan transcanal and transtympanic approaches to labyrinthine windows <i>Caroline Guigou (Dijon, France)</i></p> <p>P1-2-2 Cochlear rotation: preoperative radiological evaluation and significance <i>Mohnish Grover (Jaipur, India)</i></p> <p>P1-2-3 Radiologic sings of dwarf cochlea and its implication in cochlear implant surgery <i>Mahmoud El Tarabishi (Cairo, Egypt)</i></p> <p>P1-2-4 Cone beam CT vs micro CT of the temporal bone to determine cochlear size measurements for electrode choice in cochlear implantation surgery <i>Kayvan Nateghifard (Toronto, Canada)</i></p>

- P1-2-5** Pre-operative CT assessment of candidates for the Bonebridge system
Katarzyna Ciesla (Warsaw, Poland)
- P1-2-6** Radiological and surgical planning: evaluation of two different placement strategies
Peter Grasso (Innsbruck, Austria)
- P1-2-7** The comparison of the insertion results in patients implanted bilaterally with the Cochlear Contour Advance™ and the Slim Straight™ electrode
Aarno Dietz (Kuopio, Finland)
- P1-2-8** Evaluation of the intra-cochlear position of the new HiFocus Mid-Scala electrode array
Jeroen Briaire (Leiden, The Netherlands)
- P1-2-9** Cone beam computed tomography in postoperative imaging of cochlear electrodes
Christian Güldner (Marburg, Germany)
- P1-2-10** Evaluation of the cochlea duct anatomy and of the electrode array placement by cone beam computer tomography
Isabelle Mosnier (Paris, France)
- P1-2-11** In vivo measurements of the insertion depth angle and its variability depending on cochlear size for Nucleus CI422 recipients
Dirk Mürbe (Dresden, Germany)
- P1-2-12** Evaluation of MRI artifacts caused by hearing implants in cadaver heads: assessment of the internal auditory canal
Jan Wagner (Berlin, Germany)
- P1-2-13** Radiological estimation of length of basal turn of cochlea in Indian population
Asish Lahiri (New Delhi, India)
- P1-2-14** CT and MRI findings of the temporal bone in CHARGE syndrome: aspects of importance in cochlear implant surgery
Emmanuel Mylanus (Nijmegen, The Netherlands)
- P1-2-15** Exostoses of the internal auditory canal: 10 years follow-up
Guilherme Coelho (Campinas, Brazil)

P1-3 ePOSTER SESSION

▶ ePoster 1

**13:30–15:00**

ePoster 1

Hearing & structure preservation I

- Chair: Kevin Green (Manchester, United Kingdom)
Pascal Senn (Bern, Switzerland)*
- P1-3-1** Hearing preservation; expanding criteria in pediatric cochlear implantation
Konstantina Tzifa (Birmingham, United Kingdom)
- P1-3-2** Round window and cochleostomy approaches for hearing preservation in cochlear implantation
Monica Rodriguez-Valero (Manchester, United Kingdom)
- P1-3-3** Does the place of the electrode insertion influence the average insertion depth: a multicentric study on HiFocus 1j electrode?
Neelam Vaid (Pune, India)
- P1-3-4** Electrocochleography during cochlear implant insertion from extracochlear and intracochlear locations
Christopher Giardina (Chapel Hill, United States)
- P1-3-5** Hearing preservation in adolescents
Kevin Green (Manchester, United Kingdom)
- P1-3-6** Lamb temporal bone as a surgical training model of round window cochlear implant electrode insertion
Pascal Senn (Bern, Switzerland)
- P1-3-7** Correlation between force measurement during insertion of cochlear implant electrode and intracochlear violation of the basilar membrane
Marjan Mirsalehi (Hanover, Germany)

- P1-3-8** Hearing preservation in adult patients with Advanced Bionics Mid-Scala electrode implant
Marek Porowski (Warsaw, Poland)
- P1-3-9** Mechanisms of trauma with lateral wall electrodes and considerations for atraumatic insertion
Frank Risi (Sydney, Australia)
- P1-3-10** HiFocus™ Mid-Scala electrode use case results on residual hearing preservation
Domenico Cuda (Piacenza, Italy)
- P1-3-11** On the borderline between direct acoustical stimulation and a cochlear implant: codacs case studies
Eugen Kludt (Hanover, Germany)
- P1-3-12** Hearing and patient satisfaction in 19 patients receiving cochlear implants intended for hybrid hearing – a two-year follow-up
Elsa Erixon (Uppsala, Sweden)
- P1-3-13** The Clinical outcome of electric acoustic stimulation
Young-Myoung Chun (Seoul, Korea)
- P1-3-14** Structure preservation in partial deafness cochlear implantation with Nucleus CI422 in patients with substantial low frequency hearing
Monika Matusiak (Warsaw, Poland)
- P1-3-15** Nucleus Hybrid-L electrode and hearing preservation
Michał Karlik (Poznań, Poland)
- P1-3-16** Is ear after cochlear explantation really deaf?
Michał Karlik (Poznań, Poland)
- P1-3-17** Electrophysiological monitoring of residual hearing during and after cochlear implantation
Adrian Dalbert (Zurich, Switzerland)
- P1-3-18** Acoustic hearing correction in patients with chronic suppurative otitis media
Andrei Makaryn-Kibak (Minsk, Belarus)
- P1-3-19** Hearing preservation in partial deafness treatment
Artur Lorens (Kajetany/Warsaw, Poland)
- P1-3-20** Hearing preservation surgery for cochlear implantation – hearing and quality of life after 2 years
Marcus Atlas (Perth, Australia)

P2-1 ePOSTER SESSION

▶ ePoster 2

13:30–14:30
ePoster 2**Medical issues**

Chair: Mokhtar Bassiouni (Alexandria, Egypt)
Silke Helbig (Frankfurt, Germany)

P2-1-1 Cochlear duct length variation and 31.5mm electrodes: is there a contradiction?
Robert Mlynski (Wuerzburg, Germany)

P2-1-2 Intracochlear pressure changes related to different insertional speeds of cochlear implant electrodes
Ingo Todt (Berlin, Germany)

P2-1-3 The assessment of the influence of the surgical technique on HiFocus Mid-Scala electrode insertion depth in children
Abdelhamid Benghalem (Casablanca, Morocco)

P2-1-4 Concept into round window approach for cochlear implantation: a procedure not just an opening
Lobna El Fiky (Cairo, Egypt)

P2-1-5 Device fixation in cochlear implant: outcomes of bone well technique
Raquel Lauria (Campinas, Brazil)

P2-1-6 Practical observations on cochlear implant surgery
Ali Zohni (Cairo, Egypt)

- P2-1-8** Cochlear implantation for postmeningitic deaf patients: Nagasaki experiences
Kensuke Hatachi (Nagasaki, Japan)
- P2-1-9** Is cochlear implantation possible after acoustic tumor surgery?
Aziz Belal (Alexandria, Egypt)
- P2-1-10** Cochlear re-implantation using the same or different manufacturer's device
Ziva Yakir (Ramat Gan, Israel)
- P2-1-11** Ambulatory surgery in pediatric cochlear implantation
Eric Truy (Lyon, France)
- P2-1-12** Intra-operative standard facial nerve monitoring for CI surgery
Kuang Chao Chen (Taipei, Taiwan)
- P2-1-13** Employment of cochlear implant in skull base surgery
Barbara Gioia (Alessandria, Italy)
- P2-1-14** Dependence of functional results of stapedoplasty from the size of perforation of the footplate
Evgeniy Garov (Moscow, Russia)

P2-2 ePOSTER SESSION

▶ ePoster 2

**14:30–16:30**

ePoster 2

Middle ear implants

- Chair: Michael Glasscock (Austin, United States)
Hannes Maier (Hanover, Germany)*
- P2-2-1** Patients candidates for middle ear implant system: psychosocial aspects
Midori Yamada (Bauru, Brazil)
- P2-2-2** Intraoperative objective measures in vibratory implants
Giorgio Lilli (Hanover, Germany)
- P2-2-3** Direct round window stimulation with the Vibrant Soundbridge (MED-EL): 5-year experience using technique without fascia
Marek Porowski (Warsaw, Poland)
- P2-2-4** Techniques to improve the efficiency of a middle ear implant: effects of coupling method on intracochlear pressure
Nathaniel Greene (Aurora, United States)
- P2-2-5** Considerations of coupling modalities of the Vibrant Soundbridge to the round window
Antoni Gostian (Cologne, Germany)
- P2-2-6** The method of middle ear implantation in patients with chronic suppurative otitis media
Liudmila Makaryna-Kibak (Minsk, Belarus)
- P2-2-7** Implantable hearing system for congenital anomalies of the ear
Luiz Lourencone (Bauru, Brazil)
- P2-2-8** Validation of the new aMEI-score for selecting malformed middle ears scheduled for active middle ear implants
Henning Frenzel (Luebeck, Germany)
- P2-2-9** Results of conductive and mixed hearing loss treatment with vibroplasty couplers at the stapes head and footplate
Lukasz Olszewski (Warsaw, Poland)
- P2-2-10** New coupling method for a DACI to the inner ear
Nicolas Verhaert (Leuven, Belgium)
- P2-2-11** Fixation of the FMT at the short incus process – a new application method of the VSB®
Jan Peter Thomas (Bochum, Germany)
- P2-2-12** Middle ear implant vs Hybrid cochlear implant for high frequency SNHL
Michael Glasscock (Austin, United States)
- P2-2-13** Results with the new Cochlear CODACS system
Lukasz Olszewski (Warsaw, Poland)

- P2-2-14** The use of Vibrant Soundbridge with couplers in patients with conductive and mixed hearing loss
Marek Porowski (Warsaw, Poland)
- P2-2-16** Technical and research investigations in the development of a novel magnetic attraction bone conduction hearing system
Mark Flynn (Gothenburg, Sweden)
- P2-2-17** Stability testing after osseointegration with a wide implant, performing surgery without skin thinning: a 1 year follow up
Malo Hultcrantz (Stockholm, Sweden)
- P2-2-18** Comparison of the audiologic results obtained with the Bone Anchored Hearing Aid attached to the testband and to the abutment. A prospective study
Xabier Altuna (San Sebastian, Spain)
- P2-2-19** Individual computer assisted 3D planning for surgical placement of the Bonebridge bone conduction hearing device
Stefan Plontke (Halle, Germany)
- P2-2-20** A prospective comparison between the new wide and conventional Ponto implants: 6-months data in first 20 patients with tissue reduction and preliminary results on numbness in tissue preservation technique
Myrthe Karianne Hol (Nijmegen, The Netherlands)
- P2-2-21** Comparing different brands of bone anchored hearing systems – a review of the literature
Marcus Holmberg (Askim, Sweden)
- P2-2-22** Bone anchored hearing aid with hydroxyapatite abutment efficient in preventing necrosis of cutaneous flaps
Ion Anghel (Bucharest, Romania)
- P2-2-23** Pilot data of the bacterial flora on the percutaneous bone anchored hearing system abutment
Marc van Hoof (Maastricht, The Netherlands)
- P2-2-24** New bone conduction hearing technologies in children: experience, application & outcomes
Iain Bruce (Manchester, United Kingdom)
- P2-2-25** Application of MED-EL Bonebridge in adult patients with congenital and acquired hearing loss – first experiences
Marek Porowski (Warsaw, Poland)
- P2-2-26** MRI artifacts caused by hearing implants: assessment of the internal auditory canal in cochlear implant users
Jan Wagner (Berlin, Germany)
- P2-2-27** Verbal benefit of cochlear implant in congenitally deaf children
Madalina Gabriela Georgescu (Bucharest, Romania)
- P2-2-28** Safety and effectiveness of the Vibrant Soundbridge® when implanted in children and adolescents: an analysis of patient data collected six months post-implantation
Jeffrey Mendiola (Innsbruck, Austria)

P1-4 ePOSTER SESSION

▶ ePoster 1

**15:00–16:30**
ePoster 1**Hearing & structure preservation II***Chair: William Gibson (Gladesville, Australia)*
*Griet Mertens (Edegem, Belgium)***P1-4-1** Hearing preservation in older adults with cochlear implants
*Monica Rodriguez-Valero (Manchester, United Kingdom)***P1-4-2** Is it possible to preserve hearing with the new electrodes guides without a “soft” surgery? – implications for the selection of candidates
*Mauricio Cohen (Santiago, Chile)***P1-4-3** Development of hearing preservation surgical procedure for partial deafness treatment
Henryk Skarzynski (Warsaw, Poland)

- P1-4-4** Comparison of two cochlear implantation techniques and their effects on the preservation of residual hearing. Is the surgical approach of any importance?
Job Postelmans (Maastricht, The Netherlands)
- P1-4-5** Structural and vestibular preservation after cochlear implantation, using the Flex28 electrode
Griet Mertens (Edegem, Belgium)
- P1-4-6** Possible mechanisms for the delayed loss of residual hearing after cochlear implantation
William Gibson (Gladesville, Australia)
- P1-4-7** Our surgical experience with hybrid implant and hearing preservation outcomes
Jiri Skrivan (Prague, Czech Republic)
- P1-4-8** The observation of the status of residual hearing in patients with post-lingual hearing loss after the cochlear implantation – a pilot study
Tomáš Talach (Brno, Czech Republic)
- P1-4-9** Hearing with a cochlear implant: from bionic to bimodal listening
Ingeborg Dhooge (Ghent, Belgium)
- P1-4-11** A systematic review on the effectiveness of hearing technologies, including electric acoustic stimulation implants, for people with a severe-to-profound high-frequency hearing loss
Mathieu Hotton (Quebec City, Canada)
- P1-4-12** The benefits of using RONDO combined with in-the-ear hearing aid in patients using the MED-EL combined electric-acoustic system
Dayse Tavora-Vieira (Perth, Australia)
- P1-4-13** Amazing summation: Electro Acoustic Stimulation in a patient with only limited residual hearing
Jan Feenstra (Rotterdam, The Netherlands)
- P1-4-14** The impact of anatomy on cochlear implant outcomes
Sandra Prentiss (Kansas City, United States)
- P1-4-15** Effect of protecting residual hearing on outcome of cochlear implantation
Xia Gao (Nanjing, China)
- P1-4-16** Electro-acoustic stimulation utilizing MED-EL FLEX-20 and FLEX-24 electrodes
David Schramm (Ottawa, Canada)
- P1-4-17** Pilot evaluation of NFS for hybrid fitting
Michał Karlik (Poznań, Poland)
- P1-4-18** A meta-analysis for predictors of hearing preservation after hybrid cochlear implant surgery
Andrew Causon (Southampton, United Kingdom)
- P1-4-19** Use of the Flex-EAS electrode in a child with residual hearing in low frequencies
Raquel Nogueira (Recife, Brazil)

P1-5 ePOSTER SESSION

▶ ePoster 1

**17:00–18:45**
ePoster 1**Rehabilitation**

- Chair: Liu Bo (Beijing, China)*
Daniel Visser (Munich, Germany)
- P1-5-1** A structured training for speech understanding in noise – preliminary results with experienced cochlear implant users
Daniel Visser (Munich, Germany)
- P1-5-2** A long-term follow-up study on mandarin lexical tone identification and speech perception in postlingually deaf patients with cochlear implants
LIU Bo (Beijing, China)
- P1-5-3** Factors influencing outcomes in Romanian cochlear implanted children
Violeta Necula (Cluj-Napoca, Romania)

- P1-5-4** Efficacy of telerehabilitation patients after cochlear implantation in West Pomeranian Center of Hearing and Speech Medincus in cooperation with the World Hearing Center in Kajetany, Poland
Anna Dabrowska (Szczecin, Poland)
- P1-5-5** Involving parents in the assessment of emerging language in young implanted children: a comparison between 3 methods
Louise Duchesne (Trois-Rivières, Canada)
- P1-5-6** Adaptation of common object test in Sinhalese language
Chameera Kumarasinghege (Kurunegala, Sri Lanka)
- P1-5-7** Perception of music and speech in adolescents with cochlear implants – a pilot study on effects of intensive musical ear training
Bjørn Petersen (Aarhus, Denmark)
- P1-5-8** The psychological actions in a cochlear implant team in Brazil
Midori Yamada (Bauru, Brazil)
- P1-5-9** The social worker actions in a Brazilian cochlear implant team
Sonia Mesquita (Bauru, Brazil)
- P1-5-10** Fundamental frequency of patient with bilateral cochlear implant: case study
Sara Araújo (Porto, Portugal)

P2-3 ePOSTER SESSION

▶ ePoster 2



17:00–18:45

ePoster 2

Fitting

- Chair: Julie Bierer (Seattle, United States)
Leila Azadeh Ranjbar (Tehran, Iran)*
- P2-3-1** Telefitting of cochlear implant patients in National Network of Teleaudiology
Arkadiusz Wasowski (Kajetany/Warsaw, Poland)
- P2-3-2** Remote mapping for cochlear implant recipients – development and validation of a remote cochlear implant telehealth service: objective and subjective outcomes
Dona Jayakody (Subiaco, Australia)
- P2-3-3** Profile of patients in telecare on patients after cochlear implantation in Opole Center of Hearing and Speech Medincus
Renata Cudejko (Opole, Poland)
- P2-3-4** Efficacy of remote intraoperative monitoring in cochlear implant surgeries
E. C. Vinaya Kumar (Hyderabad, India)
- P2-3-5** Possibilities of use of telemedical tools for patients after cochlear implantation including partial deafness treatment in Silesia, Poland
Irena Urban (Katowice, Poland)
- P2-3-6** National Teleaudiology Network – post operative care in tertiary Center of Hearing and Speech Medincus in Olsztyn, Poland
Cezary Luszcz (Olsztyn, Poland)
- P2-3-7** National Telemedicine Network – effectiveness in patients from Pomeranian region
Grazyna Urbanska (Gdansk, Poland)
- P2-3-8** Clinical experience with the Cochlear™ CR220 Intraoperative remote assistant
Jane Humphries (Oxford, United Kingdom)
- P2-3-9** Fast Psychophysical Tuning Curves (fPTCs) of the cochlea in normal hearing subjects
Mohamed Shabana (Cairo, Egypt)
- P2-3-10** FOX for Nucleus
Paul Govaerts (Antwerp-Deurne, Belgium)
- P2-3-11** Comparison of fast and slow methods for measuring focused stimulation thresholds in cochlear implant patients
Julie Bierer (Seattle, United States)

- P2-3-12** Setting targets for CI fitting and reaching them with FOX assisted procedures
Paul Govaerts (Antwerp-Deurne, Belgium)
- P2-3-13** Free field frequency resolution abilities of cochlear implant users
Sergio Razza (Varese, Italy)
- P2-3-14** Effects of stimulation rate on speech perception by cochlear implant users
Leila Azadeh Ranjbar (Tehran, Iran)
- P2-3-15** Effect of the frequency allocation table in the speech processor upgrade
Ana Tereza Magalhães (São Paulo, Brazil)
- P2-3-16** Optimization of Fine Structure Processing (FSP) and high-definition Continuous Interleaved Sampling (CIS): influence on speech perception
English King (Chapel Hill, United States)
- P2-3-17** Electrode discrimination in late implanted prelingually deafened cochlear implant users
Joke Debruyne (Maastricht, The Netherlands)
- P2-3-18** Hear now and always: nucleus 6 for nucleus 24 implant recipients
Esti Nel (Sydney, Australia)
- P2-3-19** Early experiences with the Rondo speech processor
Deborah Mawman (Manchester, United Kingdom)
- P2-3-20** Naida CI Q 70 – parental and user experiences
Tisa Thomas (London, United Kingdom)
- P2-3-21** Four cases of cochlear implant in children with internal auditory canal stenosis
Ayako Tomizawa (Tokyo, Japan)
- P2-3-22** A comparison of cochlear implant speech processor switches on times. Patient views and complications
Jane Humphries (Oxford, United Kingdom)

	P1-6 ePOSTER SESSION 
10:30–11:30 ePoster 1	<p>Outcomes adults</p> <p><i>Chair: Agnes Au (Parkville, Australia) Angelika Illg (Hanover, Germany)</i></p> <p>P1-6-1 The experience of mothers of children after 10 years of cochlear implant use <i>Midori Yamada (Bauru, Brazil)</i></p> <p>P1-6-2 School integration in implanted children on a 13 years follow-up <i>Julie Boyer (Nantes, France)</i></p> <p>P1-6-3 Auditory perception performance for post-lingually deaf adults after cochlear implantation with the Neurelec Saphy® SP <i>Deborah Borger (Lyon, France)</i></p> <p>P1-6-4 Etiology of hearing loss in patients undergoing cochlear implant <i>Alessandra Zaroni (São Paulo, Brazil)</i></p> <p>P1-6-5 Middle ear status after cochlear implant surgery and the implications for flying <i>Devyanee Bele (Southampton, United Kingdom)</i></p> <p>P1-6-6 Speech reception in noise using roving-adaptive test technique (Italian starr test) in adults with AB clearvoice technology <i>Deborah Ballantyne (Rome, Italy)</i></p> <p>P1-6-7 Clinical experience with Nucleus® 6 in adult cochlear implant users <i>Geert De Ceulaer (Antwerp-Deurne, Belgium)</i></p> <p>P1-6-8 Upgrade from Auria to Harmony speech processors in postlingually deafened adults – audiological results <i>Adam Walkowiak (Kajetany/Warsaw, Poland)</i></p> <p>P1-6-9 Multicentre evaluation on the experience of cochlear implant recipients with the first swimmable sound processor, Neptune™ <i>Angelika Illg (Hanover, Germany)</i></p> <p>P1-6-10 Experience with the new Advanced Bionics sound processor – Naída CI Q70: outcomes from a multicentre evaluation <i>Lise Henderson (Manchester, United Kingdom)</i></p> <p>P1-6-11 Cochlear Implantation after long duration of deafness <i>Fredrik Stillesjö (Uppsala, Sweden)</i></p> <p>P1-6-12 Audiological findings in cochlear implantees affected by autoimmune disorders <i>Alessia Di Mario (Rome, Italy)</i></p> <p>P1-6-13 Cochlear Implantation after 5 to 50 years of deafness <i>Pascal Senn (Bern, Switzerland)</i></p> <p>P1-6-14 Assessment of spectral and temporal resolution in cochlear implant users: speech and psychoacoustic approach <i>Jong Ho Won (Knoxville, United States)</i></p> <p>P1-6-15 Cochlear implant in patients with otosclerosis <i>Andre Sampaio (Brasília, Brazil)</i></p> <p>P1-6-16 Patients with Pendred Syndrome; is cochlear implantation beneficial? <i>Wendy Huinck (Nijmegen, The Netherlands)</i></p> <p>P1-6-17 Intraoperative electrocochleography predicts cochlear implant speech outcomes better than routine biographic and audiometric factors <i>Joseph McClellan (Chapel Hill, United States)</i></p> <p>P1-6-18 Speech recognition with the most recent technologies from the four major cochlear implant manufacturers; an update <i>François Bergeron (Quebec City, Canada)</i></p> <p>P1-6-19 The TV comprehension in adult cochlear implant users <i>Alessandra Murri (Piacenza, Italy)</i></p>

- P1-6-20** Qualitative analysis on phonetic discrimination in a group of post-verbal adults with cochlear implantation
Concetta D'Adamo (Modena, Italy)
- P1-6-21** Initial clinical experiences with data logging among cochlear-implant recipients in Denmark
Kristoffer Jørgensen (Aarhus, Denmark)
- P1-6-22** Cochlear implant outcomes and quality of life in adults with Nurotron cochlear implant
Ruijuan Dong (Beijing, China)
- P1-6-23** Hearing development of hearing impaired children with different etiological background after cochlear implantation
József Kiss (Szeged, Hungary)
- P1-6-24** Testing working memory capacity in patients with cochlear implant
Joanna Putkiewicz-Aleksandrowicz (Kajetany/Warsaw, Poland)
- P1-6-25** Long-term results of speech development after cochlear implantation in children from bilingual homes
Melanie Teschendorf (Essen, Germany)
- P1-6-26** Cochlear implant in children after meningitis – results
Silvia Breuning (Buenos Aires, Argentina)
- P1-6-27** Speech perception performance trajectories of Mandarin pediatric cochlear implant users
Haihong Liu (Beijing, China)
- P1-6-28** Importance of apical stimulation in cochlear implantation
Agustín del Cañizo Álvarez (Salamanca, Spain)
- P1-6-29** Intraoperative round window electrocochleography is correlated with speech perception outcomes in pediatric cochlear implant recipients
Eric Formeister (Chapel Hill, United States)
- P1-6-30** Audiological results after cochlear implantation in patients with single-sided deafness (SSD)
Torsten Rahne (Halle (Saale), Germany)
- P1-6-31** Two cases of successful cochlear implantation following gunshot trauma to the head
Alison Riley (Birmingham, United Kingdom)
- P1-6-32** The quality of hearing after cochlear implantation – evaluation of adult patients as a part of multicenter study
Marcin Durko (Lodz, Poland)
- P1-6-33** Exploring the variance in cochlear implant outcomes as a function of information-processing ability
Agnes Au (Parkville, Australia)
- P1-6-34** Predictive value of data mining in the second cochlear implant in postlingual adults
Daniel Perez (Las Palmas de Gran Canaria, Spain)
- P1-6-35** Pitch perception in children with cochlear implants
Hilal Dincer (Rome, Italy)

10:30–12:30 ePoster 2	P2-4 ePOSTER SESSION 
	<p>Objective measures</p> <p><i>Chair: Sebastian Hoth (Heidelberg, Germany) Emmanuel Mylanus (Nijmegen, The Netherlands)</i></p> <p>P2-4-1 Optimization of registry of electrically induced stapedial reflex in patients with cochlear implants <i>Dmitrii Kliachko (Saint-Petersburg, Russia)</i></p> <p>P2-4-2 Prediction of psychophysical measures of cochlear implant maps from the electrically-evoked stapedial reflex thresholds <i>Ossama Sobhy (Alexandria, Egypt)</i></p> <p>P2-4-3 The value of electrically evoked stapedius reflex in determining the dynamic area of a cochlear implant <i>Mariana Leal (Recife, Brazil)</i></p> <p>P2-4-4 The relationship between electrical stapedius reflex thresholds and behaviorally most comfortable levels in experienced cochlear implant users <i>Ayca Ciprut (Istanbul, Turkey)</i></p> <p>P2-4-5 Auditory nerve recovery function in cochlear implant surgery under local anesthesia and sedation – comparison with general anesthesia <i>Rogério Hamerschmidt (Curitiba, Brazil)</i></p> <p>P2-4-6 Electrically evoked compound action potential (ECAP) in cochlear implant children; Is there significant changes in auditory nerve response in first year of cochlear implant use? <i>Nithreen Abdel Salam (Dammam, Saudi Arabia)</i></p> <p>P2-4-7 Electrocochleography to auditory stimuli in cochlear implant subjects: an overview <i>Douglas Fitzpatrick (Chapel Hill, United States)</i></p> <p>P2-4-8 Effects of electrode positioning on e-CAP thresholds measurements <i>Frederic Venail (Montpellier, France)</i></p> <p>P2-4-9 Cochlear implant mapping in children: correlations of eCAP and eSRT with most comfortable loudness <i>N Wendell Todd (Atlanta, United States)</i></p> <p>P2-4-10 A novel ECAP recording paradigm to acquire fine-grain growth functions <i>Lutz Gärtner (Hanover, Germany)</i></p> <p>P2-4-11 Intra operative Neural Response Telemetry and neural recovery function: a comparative study between adults and children <i>Gislaine Wiemes (Curitiba, Brazil)</i></p> <p>P2-4-12 Distinguishing hair cell from neural potentials in round window electrocochleography in a gerbil model of high frequency sensorineural hearing loss <i>William Merwin III (Chapel Hill, United States)</i></p> <p>P2-4-13 Evaluation of the electrical compound action potential threshold changes as a function of time and electrode position <i>Yalda Jabbari Moghaddam (Tabriz, Iran)</i></p> <p>P2-4-14 The comparison of intra-operative ECAP for Cochlear Electrode CI422 and CI512 <i>Meng Ju Lien (Taipei, Taiwan)</i></p> <p>P2-4-15 Characterization of electrically evoked amplitude modulation following response (EAMFR) measurements <i>Ulrike Förster-Ruhrmann (Berlin, Germany)</i></p> <p>P2-4-16 Correlation of Imp-eABR to preoperative CI candidates characteristics preliminary studies <i>Fikri Mirza Putranto (Jakarta, Indonesia)</i></p> <p>P2-4-17 On the use of electrically-evoked auditory brain-stem responses (eABR) in CI surgery: clinical experiences and results <i>Fredrik Stillesjö (Uppsala, Sweden)</i></p>

- P2-4-18** Characterization of cortical auditory evoked potentials in individuals with long-term use of cochlear implants
Katia Alvarenga (Bauru, Brazil)
- P2-4-19** Post-implantation changes of electrophysiological parameters in patients with cochlear implants
Andrzej Molisz (Gdansk, Poland)
- P2-4-20** Intraoperative electrical auditory brainstem response in cochlear implant users and its relation with the fitting process
Ana Tereza Magalhães (São Paulo, Brazil)
- P2-4-21** Auditory brainstem responses and auditory steady state responses in partial deafness patients
Wiktor Jedrzejczak (Warsaw/Kajetany, Poland)
- P2-4-22** Model of a setup for bimodal ABR measurement
Patrick Munder (Essen, Germany)
- P2-4-23** The audiological evaluation value of joint application multiple auditory steady state responses and behavioral hearing thresholds in cochlear implantation children
Jianfen Luo (Ji Nan, China)
- P2-4-24** Objective measures in pre and postlingual implanted patients
Alejandra Kontides (Buenos Aires, Argentina)
- P2-4-25** Vestibular loss after cochlear implantation may depend (and be used as marker) of inner ear trauma during surgery
Mark Praetorius (Heidelberg, Germany)
- P2-4-26** Cochlear Coverage vs. hearing performance (MED-EL standard and FLEX 20, 24, 28) preliminary results
Waldemar Würfel (Hanover, Germany)
- P2-4-27** Spread of excitation results with the increase in stimulus level
Maria Valéria Goffi-Gomez (São Paulo, Brazil)
- P2-4-28** Spatial spread of excitation measurements within adult cochlear implant users: feasibility, long-term stability and correlation with speech performance
Birgit Philips (Ghent, Belgium)
- P2-4-29** Monitoring adequacy of audio processor programs and auditory maturity using aided cortical assessment (ACA)
Julie Kosaner (Istanbul, Turkey)
- P2-4-30** Impedance and fitting parameters variations in cochlear implanted adults
Rosssella Grassia (Naples, Italy)
- P2-4-31** Variation in time of electrode impedances in 38 cochlear implant listeners
Frank Digeser (Erlangen, Germany)
- P2-4-32** Incidence and implications of individual electrode malfunctions in pediatric cochlear implants
Jennifer Harris (Boston, United States)
- P2-4-33** Audiological tests as indicators of prognosis after cochlear implant surgery in the absence of visible cochlear nerve: a case study
Rashmi Bhat (Bengaluru, India)
- P2-4-34** 0.5 kHz tone-burst evoked otoacoustic emissions in children
Wiktor Jedrzejczak (Warsaw/Kajetany, Poland)
- P2-4-35** Intraoperative cochlear implant diagnostics with the handheld CR220 Remote Assistant
Abiodun Olusesi (Abuja, Nigeria)

	P1-7 ePOSTER SESSION	▶ ePoster 1 
11:30–12:30 ePoster 1	Outcomes children	
	<i>Chair: Diana Arweiler-Harbeck (Essen, Germany)</i> <i>Lucas Costa (São Paulo, Brazil)</i>	
	P1-7-1 Evaluation in the Greek language of implanted children <i>Ioannis Geramas (Athens, Greece)</i>	
	P1-7-2 CHiP and outcomes of additional or complex needs children <i>Tisa Thomas (London, United Kingdom)</i>	
	P1-7-3 Deafness awareness for the hearing impaired child undergoing general anaesthesia <i>Jo Williams (Birmingham, United Kingdom)</i>	
	P1-7-4 Performance evaluation for a group of 61 HiRes 90K patients implanted in Annaba, Algeria since 2007 <i>Abderahmane Saïdia (Annaba, Algeria)</i>	
	P1-7-5 Impaired hearing in children and the need for cochlear implants <i>Abdulmohsin Saleem (Mosul, Iraq)</i>	
	P1-7-6 Speech and acoustical perception progress in children after sequential bilateral cochlear implantation <i>Alfiya Siraeva (Moscow, Russia)</i>	
	P1-7-7 Cochlear implantation with round window insertion in children with otitis media with effusion <i>Jia Sun (Hefei, China)</i>	
	P1-7-8 Cochlear implantation in children with cytomegalovirus <i>Karina Fanelli (Buenos Aires, Argentina)</i>	
	P1-7-9 Central nervous system tumours and children cochlear implant candidacy <i>María Antonia Clavería (Esplugues-Barcelona, Spain)</i>	
	P1-7-10 The effect of the cochlear implantation in teenagers with progressive hearing loss <i>Kyoko Kitaoka (Nagasaki City, Japan)</i>	
	P1-7-11 The effect of cochlear implant in multi-handicapped children <i>Keiko Suwa (Suita, Japan)</i>	
	P1-7-12 Cochlear implantation in deaf children with white matter abnormality <i>Yujie Song (Ji Nan, China)</i>	
	P1-7-13 Importance of behavioral audiometry in young child with severe inner ear abnormality in compare with objective measurements <i>Ali Ahmadi (Tehran, Iran)</i>	
	P1-7-14 The development of auditory skills in infants with Mondini dysplasia after cochlear implantation <i>Xueqing Chen (Beijing, China)</i>	
	P1-7-16 The results of rehabilitation of patients with prelingual deafness after implantation cochlear of CI in a group of preschool children <i>Dorota Szuber (Rzeszow, Poland)</i>	
	P1-7-17 Early intervention with cochlear implant for hearing impaired children referred by newborn screening: evaluation of auditory and behavioral evaluation <i>Kei Nakahara (Osaka, Japan)</i>	
	P1-7-18 A longitudinal study on speech perception as effect of age at implantation in 50 prelingually deaf children <i>Norma Pallares (Buenos Aires, Argentina)</i>	
	P1-7-19 How effective has new born hearing screening been at reducing the age of referral for a cochlear implant: a comparative review <i>Jill Mustard (Christchurch, New Zealand)</i>	
	P1-7-20 Acoustic function of premature children's different contingent <i>Irina Rakhmanova (Moscow, Russia)</i>	

- P1-7-21** Audition and speech intelligibility in children after ten years of cochlear implant surgery
Lucas Costa (São Paulo, Brazil)
- P1-7-22** Long-term preliminary speech perception and language outcomes after sequential bilateral cochlear implantation in children
Marloes Sparreboom (Nijmegen, The Netherlands)
- P1-7-23** The development of linguistic abilities in children with profound prelingual sensory-neural hearing loss. Comparison of cochlear implant and hearing aid users
Petros Stagiopoulos (Thessaloniki, Greece)
- P1-7-24** Assessment of auditory development in infants with use of questionnaires
Jolanta Serafin-Jozwiak (Kajetany/Warsaw, Poland)
- P1-7-25** Auditory performance and language development in implanted children followed in Rabat
Fouad Benariba (Rabat, Morocco)
- P1-7-26** Systematic newborn hearing screening program at Beni Messous hospital in Algiers
Omar Zemirli (Algiers, Algeria)
- P1-7-27** Impact of Universal Newborn Hearing Screening Programme on early intervention and cochlear implantation
Lejla Piric (Tuzla, Bosnia and Herzegovina)
- P1-7-28** First analysis Newborn Hearing Screening Program in Algeria
Mokhtar Hasbellaoui (Algiers, Algeria)
- P1-7-29** Cochlear implant in children with congenital deafness identified by neonatal hearing screening program
Sebastian Cozma (Iasi, Romania)
- P1-7-30** Educational placement of pre-lingually deaf children who received cochlear implant between 5 to 10 years of age
M. Iqbal Khan (Bradford, United Kingdom)
- P1-7-31** Cochlear implant in child: auditory, language abilities and school integration
Abderahmane Saïdia (Annaba, Algeria)
- P1-7-32** Comparison of speech discrimination and comprehension of cochlear implant users: computer produced speech versus live voice
Aggeliki Teligiannidou (Thessaloniki, Greece)
- P1-7-33** Performance differences between recorded and live voice speech audiometry in implanted children
Argyrios Krommydas (Thessaloniki, Greece)
- P1-7-34** Correlation analysis of LittlEars®-questionnaire and AŞE® in cochlear implanted children
Diana Arweiler-Harbeck (Essen, Germany)
- P1-7-35** Happiness in Iranian cochlear implanted adolescents
Guita Movallali (Tehran, Iran)
- P1-7-36** Restoration of hearing with cochlear implant in asymmetric and unilateral deafness in children
Carlos Curet (Cordoba, Argentina)
- P1-7-37** Clinical study of MED-EL new speech processor (RONDO) for child
Hazama Michio (Izumisano, Japan)
- P1-7-38** An examination of the relationship between tone perception and tone production on Mandarin-speaking children with cochlear implants
Hui-Ping Lu (Tainan, Taiwan)

13:30–15:00 ePoster 1	P1-8 ePOSTER SESSION 
	<p>Surgical issues: revision/re-implantation, malformation & robotic surgery</p> <p><i>Chair: Javier Gavilán (Madrid, Spain) Michael Tong (Hong Kong)</i></p>
	<p>P1-8-1 Morphological aspect of the transattical approach for cochlear implantation <i>Dragoslava Djerić (Belgrade, Serbia)</i></p>
	<p>P1-8-2 Round window electrode insertion in the inner ear pathology <i>Vladislav Kuzovkov (Saint Petersburg, Russia)</i></p>
	<p>P1-8-3 Cochlear implant surgery through natural orifices: the endomeatal approach (EMA) <i>Victor Slavutsky (Barcelona, Spain)</i></p>
	<p>P1-8-4 Cochlear implantation through the round window: optimizing the surgical procedure <i>Thierry Mom (Clermont-Ferrand, France)</i></p>
	<p>P1-8-5 Long term results of an alternative technique for cochlear implantation: the transattical approach <i>Miguel Vaca (Madrid, Spain)</i></p>
	<p>P1-8-6 The modified transcanal approach revisited: technique and results <i>Badr Mostafa (Cairo, Egypt)</i></p>
	<p>P1-8-7 The trans-attic transcanal approach for cochlear implantation, a safer and effective technique <i>Waleed Ezzat (Cairo, Egypt)</i></p>
	<p>P1-8-8 Concept for an ideal process of cochlear implantation <i>Tilman Keck (Graz, Austria)</i></p>
	<p>P1-8-9 Using a sub-periosteal pocket: do we need to drill an implant bed for the Flex 28 cochlear implant? <i>Andy Hall (London, United Kingdom)</i></p>
	<p>P1-8-10 Covering the mastoid cavity with a “Bone Cap” in cochlear implantation <i>Hsiao-Yun Cho (Taipei, Taiwan)</i></p>
	<p>P1-8-11 A surgical survey on the usability and applicability of the HiFocus Mid-Scala electrode <i>Dzemat Gazibegovic (Cambridge, United Kingdom)</i></p>
	<p>P1-8-12 New cochlear implant philosophy – fully implantable device <i>Predrag Spiric (Banja Luka, Bosnia and Herzegovina)</i></p>
	<p>P1-8-13 Simultaneous endolymphatic sac drainage and cochlear implantation in patients with Meniere’s disease <i>Andrey Lilenko (Saint Petersburg, Russia)</i></p>
	<p>P1-8-14 Management of CSF gusher in cochlear implantation <i>Ali Eftekharian (Tehran, Iran)</i></p>
	<p>P1-8-15 Evaluation of internal receiver migration in cochlear implantation using subperiosteal pocket technique <i>Kadir Serkan Orhan (Istanbul, Turkey)</i></p>
	<p>P1-8-16 Surgical challenges during electrode insertion in cochlear implants <i>Maciej Mrowka (Warsaw, Poland)</i></p>
	<p>P1-8-17 Cochlear implantation in the obliterated cochlea <i>Amr Rabie (Cairo, Egypt)</i></p>
	<p>P1-8-18 Cochlear implant in cochlear ossification. Surgical options <i>Luciano Mendonça (Buenos Aires, Argentina)</i></p>
	<p>P1-8-19 Approach to the second turn of cochlea in cases of cochlear ossification <i>Khassan Diab (Saint Petersburg, Russia)</i></p>
	<p>P1-8-20 Cochlear implantation in patients with ossified cochlea: surgical techniques and outcomes <i>Kheireddine Ouennoughi (Algiers, Algeria)</i></p>

- P1-8-21** The long-term outcome of cases with cochlear implantation due to advanced otosclerosis and van der Hoeve syndrome
Takeru Misawa (Tokyo, Japan)
- P1-8-22** CI surgical technique and post-op auditory benefit for cases with cochlear ossification
Daoxing Zhang (Beijing, China)
- P1-8-23** Cochlear implants in children with anomalous cochleovestibular anatomy
Saumitra Shah (Surat, India)
- P1-8-24** Cochlea implantation via a superior cochleostomy in incomplete partition type III
Joachim Schmutzhard (Innsbruck, Austria)
- P1-8-25** Mastoid obliteration versus hyperosmolar protocol during cochlear implantation in malformed inner ear with high gusher risk
Sofiane Ouhab (Algiers, Algeria)
- P1-8-26** Outcomes in cochlear implantation in patients with cochlear malformations following minimal invasive transcanal technique
Nenad Arsovic (Belgrade, Serbia)
- P1-8-27** Outcomes of cochlear implantation in Japanese children with malformation of the cochlea and/or cochlear nerve
Minoru Hara (Nagasaki, Japan)
- P1-8-28** Malformations of the inner ear in profound sensorineural deafness
Foued Hadj Allal (Tlemcen, Algeria)
- P1-8-29** Cochlear implant in chronic otitis media
Luciano Mendonça (Buenos Aires, Argentina)

P2-5 ePOSTER SESSION

▶ ePoster 2

**13:30–15:00**
ePoster 2**Cochlear implants around the world**

- Chair: Dong-Yi Han (Beijing, China)*
Joachim Müller (Munich, Germany)
- P2-5-1** Facilitating mindful communication
Domitille Lochet (Miami, United States)
- P2-5-2** Profile of the patients implanted in a cochlear implant program in Recife-PE-Brazil
Raquel Nogueira (Recife, Brazil)
- P2-5-3** Cochlear implants in the middle east (1983–2013)
Aziz Belal (Alexandria, Egypt)
- P2-5-4** Cochlear implant program in North Sumatera and South Sulawesi provinces in Indonesia
Devira Zahara (Medan, Indonesia)
- P2-5-5** Cochlear implant program in East Java in Indonesia
Sulantari Sulantari (Surabaya, Indonesia)
- P2-5-6** Cochlear implant outcomes at the ENT Ha Noi Hospital during August 2012 and August 2013
Chau Luong (Ha Noi, Viet Nam)
- P2-5-7** Cochlear implant program in Mongolia
Ulziibayar Agvaandorj (Ulaanbaatar, Mongolia)
- P2-5-8** Cochlear implant program in Myanmar
Win Kyi (Yangon, Myanmar)
- P2-5-9** Hearing implants around the world – CI in Taiwan
Kuang Chao Chen (Taipei, Taiwan)
- P2-5-10** Cochlear implants in cochlear malformations: the experience of Vietnam National Hospital of Pediatrics
Xuong Nguyen (Hanoi, Viet Nam)
- P2-5-11** Cochlear implants in South Africa
Suryan Lombaard (Cape Town, South Africa)

- P2-5-12** Auditory performance in implanted children before 2 years old at Mendoza, Argentina
Alexander Saenz (Mendoza, Argentina)
- P2-5-13** Eight years of cochlear implantation in Vilnius University Hospital in Lithuania
Jekaterina Byckova (Vilnius, Lithuania)
- P2-5-14** Pakistan cochlear implant program: 14 years experience
M Iqbal Khan (Bradford, United Kingdom)
- P2-5-15** Benefits of the applied surgical method of the program of cochlear implantation in Juiz de Fora – Brazil
Fernando Cesar De Souza (Juiz de Fora, Brazil)
- P2-5-16** School age hearing screening – pilot studies from countries around the world
Piotr Skarzynski (Warsaw, Poland)
- P2-5-17** Cochlear implants in Oman
Ammar Al Lawati (Hamria, Oman)
- P2-5-18** Binaural benefits in bilateral simultaneous cochlear implantation in Thai
Tulakan Makkun (Muang, Thailand)
- P2-5-19** The experience of Coltea ENT/HNS clinic Bucharest in cochlear implantation (2009–2013 survey)
Marian Stamate (Bucharest, Romania)

P1-9 ePOSTER SESSION

▶ ePoster 1

**15:00–16:30**
ePoster 1**Difficult patients, atypical or challenging situations**

- Chair: Katsumi Doi (Osaka-Sayama, Japan)*
Melanie Teschendorf (Essen, Germany)
- P1-9-1** Learning to listen when you can't sit still; a pre-school child with balance dysfunction
Lyndsey Allen (Nottingham, United Kingdom)
- P1-9-2** Cochlear implantation in children with cerebral palsy
Andrea Bacciu (Parma, Italy)
- P1-9-3** Cuban cochlear implant program: eight years of experiences with deaf and deafblind children
Antonio Paz Cordovés (Havana, Cuba)
- P1-9-4** Cochlear implantation in children with sickle cell disease
Katherine Wilson (London, United Kingdom)
- P1-9-5** Hearing implant treatment of patients with thalidomide associated middle and inner ear malformations
Benjamin Kansy (Essen, Germany)
- P1-9-6** Cochlear Implantation in a girl with left internal auditory canal stenosis and very small strip of nerve: a case report
Tulakan Makkun (Muang, Thailand)
- P1-9-7** Pediatric vestibulo-cochlear malformations and international collaboration for the UK's first bilateral Form19 electrode cochlear implantation
Jonathan Joseph (Mid Glamorgan, United Kingdom)
- P1-9-8** Cochlear implantation in a patient with multiple ear and skull base anomalies
Riad Khnifes (Haifa, Israel)
- P1-9-9** A rare case of petrous apex cholesteatoma
Gunta Sumeraga (Riga, Latvia)
- P1-9-10** Digisonic® SP Binaural cochlear implantation in a patient with left deafness in cholesteatoma and right severe-profound hearing loss
Marco Perotti (Alessandria, Italy)
- P1-9-11** Cochlear implantation following therapy of acoustic neuroma
Jörg Langer (Halberstadt, Germany)

- P1-9-12** Cochlear implant, the best option in patient with neurofibromatosis type 2 underwent radiosurgery
Patricia Pimentel (Recife, Brazil)
- P1-9-13** Simultaneous cochlear implantation and translabyrinthine removal of vestibular schwannoma
Katsumi Doi (Osaka-Sayama, Japan)
- P1-9-14** Cochlear implant as an alternative treatment for deafness caused by vestibular schwannomas: a case report
Federico Di Lella (Ciudad de Buenos Aires, Argentina)
- P1-9-15** Cochlear implantation in a patient with prior medulloblastoma
Zebunnisa Vanat (Cambridge, United Kingdom)
- P1-9-16** Cochlear implantation in otosclerosis: audiological concerns
Karina Fanelli (Buenos Aires, Argentina)
- P1-9-17** Outcomes of cochlear implantation in patients with far advanced otosclerosis
Talma Shpak (Haifa, Israel)
- P1-9-18** Cochlear implantation in labyrinthitis ossificans
Milena Lavor (Campinas, Brazil)
- P1-9-19** The CHARGE syndrome: about a case and literature review
Isma Brahami (Tlemcen, Algeria)
- P1-9-20** Cochlear implantation on a patient with usher syndrome (Typel) by the MYO7A gene variation – a case report
Chiharu Kihara (Nagasaki, Japan)
- P1-9-21** Cochlear implantation in children with Waardenburg Syndrome
Atsushi Kawano (Tokyo, Japan)
- P1-9-22** Cochlear implantation in children with large vestibular aqueduct syndrome – timing of intervention, implantation strategy and post-implant management
Marsha Jenkins (London, United Kingdom)
- P1-9-23** Case study of an adult cochlear implant patient with total non-auditory sensation unrelated to the facial nerve from first programming session and its management
Joanne Muff (Cambridge, United Kingdom)
- P1-9-24** A case of auditory neuropathy spectrum disorder with a normal hearing threshold
Sung Wook Jeong (Busan, Korea)
- P1-9-25** Three years after cochlear implantation girl of 25 – case report
Maja Jovanovic (Cetinje, Montenegro)
- P1-9-26** Indications of cochlear implant in NF2: a report of 12 cases
Didier Bouccara (Paris, France)
- P1-9-27** Cochlear implantation versus auditory brainstem implantation in bilateral total deafness after head trauma: personal experience and review of the literature
Lorenzo Lauda (Piacenza, Italy)
- P1-9-28** Single case report: word recognition after late unilateral cochlea implantation despite negative auditory nerve testing in a patient with acquired deafness due to infantile meningitis
Katharina Florek (Dresden, Germany)
- P1-9-29** The clinical progress of simultaneous bilateral CI after meningitis with an IP-II anomaly
Mehmet Ozuier (Izmir, Turkey)
- P1-9-30** Cochlear implantation in a child with brain infarction
Manuel Sevilla Salas (La Habana, Cuba)
- P1-9-32** Whole-exome sequencing identifies POU3F4 p.Ala116fs mutation in two brothers with hearing loss
Agnieszka Pollak (Kajetany/Warsaw, Poland)
- P1-9-33** Effects and consequences of Digisonic SP cochlear implant on radiotherapy planning
Nicolas Guevara (Nice, France)

- P1-9-34** Three cases of cochlear implants placed after radiation induced severe hearing loss
Mio Tsutsumi (Sapporo, Japan)
- P1-9-35** Advanced Bionics® cochlear implants in patients with prelingual hearing loss
Fernando Fernandes (Campinas, Brazil)
- P1-9-36** Cochlear implantation on a patient with sudden-onset deafness due to otitis media with ANCA-associated vasculitis – a case report
Takeshi Watanabe (Nagasaki, Japan)

P2-6 ePOSTER SESSION

▶ ePoster 2

15:00–16:30
ePoster 2**Bimodal/binaural hearing**

Chair: John Culling (Cardiff, United Kingdom)
Christian Wirtz (Starnberg, Germany)

- P2-6-1** Outcome measures of electroacoustic hearing – a questionnaire to evaluate bimodal benefit
Joanne Edwards (Middlesbrough, United Kingdom)
- P2-6-2** Self-assessment of bimodal experiences in daily life
Elke M. J. Devocht (Maastrich, Netherlands)
- P2-6-3** Localisation ability: an evaluation of binaurally aided adults who become bimodal listeners
Louise Craddock (Birmingham, United Kingdom)
- P2-6-4** The benefit from contralateral hearing aid for cochlear implant recipients
Ye Yang (Nanjing, China)
- P2-6-5** Monaural and binaural auditory reaction times depend on spectrotemporal properties: normal-hearing and impaired-hearing simulation
Lidwien Veugen (Nijmegen, The Netherlands)
- P2-6-6** The Influence of residual hearing and the use of contralateral hearing aids associated to cochlear implants
Maria Valeria Schmidt-Goffi Gomez (Sao Paulo, Brazil)
- P2-6-7** Benefit of speech understanding with cochlear implantation of single-sided deaf patients
Thomas Kortmann (Kiel, Germany)
- P2-6-8** Determining the speech discrimination at the contralateral ear for BAHS using patients
Bahtiyar Celikgun (Istanbul, Turkey)
- P2-6-9** Speech recognition of bimodal cochlear implant in elderly adults
Choondong Kim (Seoul, Korea)

P1-10 ePOSTER SESSION

▶ ePoster 1

17:00–18:45
ePoster 1**Rehabilitation for children – speech production, speech perception**

Chair: Katrin Kral (Cologne, Germany)
Leandra Silva (Bauru, Brazil)

- P1-10-1** Identification of nasal vowels by French Parisian cochlear-implanted adults
Stéphanie Borel (Paris, France)
- P1-10-2** Analysis of rehabilitation results of children after cochlear implantation
Alexey Ivoylov (Moscow, Russia)
- P1-10-3** Speech intelligibility in sentences after reading and dictation training in children with prelingually hearing disabilities who use cochlear implants
Leandra Silva (Bauru, Brazil)
- P1-10-4** Language development and speech intelligibility of Egyptian children using cochlear implant
Ahmed Abdelmonem (Banisuef, Egypt)
- P1-10-5** The pediatric postoperative outcomes of the cochlear implant systems
Abderahmane Saïdia (Annaba, Algeria)

- P1-10-6** Study to examine the feasibility of using radio aids (FM systems) in an aqueous environment, specifically school based swimming lessons with Cochlear Corporation processors
Colin Peake (Southampton, United Kingdom)
- P1-10-7** Distant results of children hearing and speech development assessment after cochlear implantation
Andriy Zaytsev (Dnipropetrovsk, Ukraine)
- P1-10-8** The Sibiu speech understanding test
Rodica Popescu (Sibiu, Romania)
- P1-10-9** Language development in deaf children two years after cochlea implantation – results in the German language development test battery for two year old children (SETK-2)
Katrin Kral (Cologne, Germany)
- P1-10-10** The retrospective analysis of the cochlear implantation effectiveness depending on the age of intervention
Gayane Sargsyan (Yerevan, Armenia)
- P1-10-11** Preschool television programs: analysis using SmartSound IQ data logging
Kate Hanvey (Birmingham, United Kingdom)
- P1-10-12** Long term outcomes in cochlear implanted children
Nadia Djerad (Annaba, Algeria)
- P1-10-13** Auditory performance and speech intelligibility of Mandarin-speaking children implanted before age 5
Chang-Wei Huang (Taichung City, Taiwan)
- P1-10-14** Children with cochlear implants and cerebral palsy – selection, rehabilitation, outcomes
Branka Mikic (Belgrade, Serbia)
- P1-10-15** Performance of children with additional disabilities after cochlear implantation
Omar Zemirli (Algiers, Algeria)
- P1-10-16** CI children with complex needs and new rehabilitation material supporting this population
Dagmar Herrmannova (Prague, Czech Republic)
- P1-10-17** Requests of cochlear implantation(CI) in multihandicaped children
Jessica Tausch (Duesseldorf, Germany)
- P1-10-18** Outcomes of cochlear implantation in deaf children with associated disabilities
Izabela Kelar (Szczecin, Poland)
- P1-10-19** Cochlear implant in children: auditory, language abilities and school integration
Isabelle Ruzza (Lille, France)
- P1-10-20** The fundamental frequency of voice in candidates for cochlear implantation depending on their age
Elzbieta Wodarczyk (Warsaw, Poland)
- P1-10-21** Intonation of speakers with cochlear implant
Lisa Wälischmiller (Munich, Germany)
- P1-10-22** Acoustic analysis of vowel production during the first year after cochlear implantation
Veronika Neumeyer (Munich, Germany)
- P1-10-23** Speech perception in adult patients, users of Digisonic® SP cochlear implant with Saphyr processor
Leandra Silva (Bauru, Brazil)
- P1-10-24** Analysis acoustic in children voice user cochlear implants
Maria Eugenia Prieto (Caba, Argentina)

P2-7 ePOSTER SESSION 	
17:00–18:00 ePoster 2	<p>Cochlear implants in the elderly</p> <p><i>Chair: Ulrich Hoppe (Erlangen, Germany) Thomas Keintzel (Wels, Austria)</i></p> <p>P2-7-1 Cochlear implantation in patients over 70 years of age <i>Naoko Nonami (Shinjuku-ku, Japan)</i></p> <p>P2-7-2 Audiological and speech perception results of cochlear implantation in deafened elderly (over 65 years old) <i>Magdalena Lachowska (Warsaw, Poland)</i></p> <p>P2-7-3 Short and long term outcomes for elderly cochlear implant recipients <i>Ahmad Mahmoud (Philadelphia, United States)</i></p> <p>P2-7-4 The effects of age on sentence recognition testing among cochlear implant recipients: AzBio vs. HINT <i>Ahmad Mahmoud (Philadelphia, United States)</i></p> <p>P2-7-5 Cochlea implantation in the elderly <i>Thomas Keintzel (Wels, Austria)</i></p> <p>P2-7-6 Old age, rather than reduced cognition, may worsen hearing post cochlear implantation <i>Jeremy Wales (Oxford, United Kingdom)</i></p> <p>P2-7-7 Cochlear implantation in elderly patients <i>Ferenc Tóth (Szeged, Hungary)</i></p>
P2-9 ePOSTER SESSION 	
18:00–18:30 ePoster 2	<p>Music therapy</p> <p><i>Chair: Valerie Looi (Sydney, Australia) Anja Hahne (Dresden, Germany)</i></p> <p>P2-9-1 Results of an international questionnaire examining use of musical (re)habilitation for CI users <i>Julie Kosaner (Istanbul, Turkey)</i></p> <p>P2-9-2 Development of a music style identification test for cochlear implant and hearing aid users <i>Valerie Looi (Sydney, Australia)</i></p> <p>P2-9-3 Contribution of non-implanted ear to pitch perception for prelingually deafened cochlear implantees <i>Lieber Li (Taipei, Taiwan)</i></p> <p>P2-9-4 Evaluation of music perception using Fine Structure Processing (FSP) versus High Definition Continuous Interleaved Sampling (HDCIS) <i>Ellen Pearce (Chapel Hill, United States)</i></p> <p>P2-9-5 Music perception and enjoyment in Brazilian cochlear implant users: a multicenter study <i>Lucas Costa (São Paulo, Brazil)</i></p>

	P1-11	ePOSTER SESSION	▶ ePoster 1	
08:30–09:30 ePoster 1		Auditory neuropathy		
		<i>Chair: Silke Kunze (Munich, Germany) Jon Shallop (Rochester, United States)</i>		
	P1-11-1	Etiological and rehabilitation dilemmas in late on set auditory neuro pathy spectrum disorder <i>PK Sarafudeen (Perintalmanna, India)</i>		
	P1-11-2	Evaluation of the results of cochlear implant among prematures and fullterms with perinatal or postnatal hypoxia <i>Ahmed Mehanna (Alexandria, Egypt)</i>		
	P1-11-3	Assessment of speech perception and language in children with auditory neuropathy Spectrum Disorder users of cochlear implant <i>Elisabete Yamaguti (Bauru, Brazil)</i>		
	P1-11-4	Clinical picture of patients with auditory neuropathy <i>Susan Abdi (Tehran, Iran)</i>		
	P1-11-5	The auditory characteristics of children with narrow Inner Auditory Canal (IAC) <i>Yu Ai (Ji Nan, China)</i>		
	P1-11-6	The influence of agc settings for speech recognition in eight cochlear implanted patients with auditory neuropathy <i>Anca Modan (Bucharest, Romania)</i>		
	P1-11-7	Our experience of pediatric cochlear implantation in auditory neuropathy spectrum disorder <i>Sevina Tzortzis (Birmingham, United Kingdom)</i>		
	P1-11-8	The pmn/pmn mouse, an animal model for auditory neuropathy? <i>Kristen Rak (Wuerzburg, Germany)</i>		
	P1-11-9	Relationship between patients with clinical auditory neuropathy spectrum disorder and mutations in GJB2 gene <i>Alexandre Guimaraes (Campinas, Brazil)</i>		
	P1-11-10	Cochlear implantation versus hearing amplification in patients with auditory neuropathy spectrum disorder <i>Marc Bennett (Nashville, United States)</i>		
	P2-10	ePOSTER SESSION	▶ ePoster 2	
08:30–10:30 ePoster 2		Sound coding		
		<i>Chair: Reinhold Schatzer (Innsbruck, Austria) Simone Volpert (Duesseldorf, Germany)</i>		
	P2-10-1	The prerequisites for language acquisition: how congenitally deaf children process vowel length after cochlear implantation – an EEG study <i>Anja Hahne (Dresden, Germany)</i>		
	P2-10-2	The effect of the stimulation rate on the newest fine structure speech coding strategies <i>Tobias Rottmann (Hanover, Germany)</i>		
	P2-10-3	Investigating the use of varying stimulation rates for different electrodes <i>Sonia Tabibi (Zurich, Switzerland)</i>		
	P2-10-4	Speech understanding and preference of cochlear implant recipients using FSP speech coding strategy (MED-EL) after conversion to FS4-LR and FS4-HR <i>Heinz Dieter Klünter (Cologne, Germany)</i>		
	P2-10-5	Time-domain pitch determination – the pitch picker <i>Michael Staudacher (Innsbruck, Austria)</i>		
	P2-10-6	Investigation of modeled potential distributions inside the electrically stimulated cochlea <i>Anja Chilian (Ilmenau, Germany)</i>		
	P2-10-7	Spectral contrast enhancement in CI coding strategies: a real-time implementation <i>Thilo Rode (Hanover, Germany)</i>		

- P2-10-8** Informational masking and stream segregation of psychophysical stimuli in bilateral cochlear implant users
Aswin Wijetillake (Melbourne, Australia)
- P2-10-9** Preferences of patients in the speech processor upgrades with new strategies
Paola Samuel (São Paulo, Brazil)
- P2-10-10** Time course of stream segregation in CI users
Martin Böckmann-Barthel (Magdeburg, Germany)
- P2-10-11** Gender identification and intelligibility of whispered speech in cochlear implant users: evaluation and analysis
Oldoos Hazrati (Richardson, United States)
- P2-10-12** Distribution of tryptophan hydroxylase immunoreactivity in the spiral ganglion neurons of mouse cochlea
Yuedi Tang (Chengdu, China)
- P2-10-13** Automated program selection – a better option by the speech-processor?
Simone Volpert (Duesseldorf, Germany)
- P2-10-14** Using channel-specific models to detect and mitigate reverberation in cochlear implant pulse trains
Jill Desmond (Durham, United States)
- P2-10-15** Study of temporal and place pitch percepts with single- and dual-electrode stimulation in the apex
Andreas Griessner (Innsbruck, Austria)
- P2-10-16** Performance of young children first fitted with the HiRes 120™ strategy: two years of follow-up
Nathalie Mathias (Staeafa, Switzerland)
- P2-10-17** The effect of adaptive dynamic range optimization on speech intelligibility in adverse listening environments for cochlear implant users
Hussnain Ali (Richardson, United States)
- P2-10-18** Speech perception in children with cochlear implants with two sound processing strategy of the HiResolution system
Tatiana Melo (Bauru, Brazil)
- P2-10-19** An industry first: wind noise reduction for Nucleus® 6 cochlear implant recipients
Esti Nel (Sydney, Australia)
- P2-10-20** Evaluation of the battery lifetime improvement with the HiRes Optima™ strategy in Harmony™ cochlear implant users
Nathalie Mathias (Staeafa, Switzerland)

P1-12 ePOSTER SESSION

▶ ePoster 1



09:30–10:00

ePoster 1

ABI – Auditory Brainstem Implants

*Chair: Stefan Brill (Wuerzburg, Germany)
Katherine Wilson (London, United Kingdom)*

- P1-12-1** Temporal coding of neuroprosthetics in the central auditory system: comparison of optogenetic, electrical and acoustic stimulation of the cochlear nucleus
Elliott Kozin (Boston, United States)
- P1-12-2** Auditory Brainstem Implants: indications and contraindications
Giuseppe De Donato (Piacenza, Italy)
- P1-12-3** Auditory and non auditory responses in ABI children
Artur Lorens (Kajetany/Warsaw, Poland)
- P1-12-4** Results after sequential bilateral auditory brainstem implantation
Artur Lorens (Kajetany/Warsaw, Poland)
- P1-12-5** Auditory Brainstem implant in four children with cochlear nerve aplasia
Norma Pallares (Buenos Aires, Argentina)

- P1-12-6** Case study – pediatric ABI fitting
Katherine Wilson (London, United Kingdom)
- P1-12-7** Routes towards closing the auditory implant feedback loop
Theodor Doll (Hanover, Germany)
- P1-12-8** Auditory brainstem implants in children: indication criteria and results
Lutz Gärtner (Hanover, Germany)
- P1-12-9** Optogenetically-driven auditory brainstem responses (oABR) in a model of an optical auditory brainstem implant
Ariel Hight (Cambridge, United States)
- P1-12-10** Speech perception with auditory brainstem implants in neurofibromatosis type II patients
Stefan Brill (Wuerzburg, Germany)
- P1-12-11** Audiological outcomes in a patient implanted with a cochlear and a brainstem implant
Annelies Vermeiren (Wilrijk, Belgium)
- P1-12-12** Hearing restoration in vestibular schwannoma caused deafness: report of two cases
Mehmet Korkmaz (Ankara, Turkey)

P1-13 ePOSTER SESSION

▶ ePoster 1



11:00–13:00

ePoster 1

Bone conduction devices

- Chair: Myrthe Karianne Hol (Nijmegen, The Netherlands)*
Martin Kompis (Bern, Switzerland)
- P1-13-1** Modified skin incision in new Baha Atract implant
Beldan Polat (Istanbul, Turkey)
- P1-13-2** Investigating the skin-abutment interface of the Cochlear Baha DermaLock – evidence of integration?
Marc van Hoof (Maastricht, The Netherlands)
- P1-13-3** Imaging after Bonebridge implantation
Christian Güldner (Marburg, Germany)
- P1-13-4** Localization skills in single side deafness patients with bone conduction hearing devices
Henry Martinez (Bogota, Colombia)
- P1-13-5** A new transcutaneous transmission path for Baha® users: comparison with the test bands and the percutaneous abutments
Martin Kompis (Bern, Switzerland)
- P1-13-6** Linear incision with no soft tissue reduction Baha insertion: preliminary results
Monica Rodriguez-Valero (Manchester, United Kingdom)
- P1-13-7** Bone anchored hearing device implantation: the evolution of a surgery in a neurotology practice
Harold Kim (Portland, United States)
- P1-13-8** Evaluation of the effectiveness and efficiency of the Cochlear Baha Atract system
Anna Ratuszniak (Warsaw, Poland)
- P1-13-9** An active bone conduction implant in patients with single-sided deafness
Rolf Salcher (Hanover, Germany)
- P1-13-10** Indication criteria and outcomes with the transcutaneous bone conduction implant Bonebridge
Sasan Hamzavi (Vienna, Austria)
- P1-13-11** Speech comprehension in background noise in SSD patients using Baha after a vestibular schwannoma surgery
Jiri Skrivan (Praha, Czech Republic)
- P1-13-12** Early experience with Baha Atract – active atranscutaneous solutions
Jaydip Ray (Sheffield, United Kingdom)

- P1-13-13** Placement considerations for the MED-EL Bonebridge
David Morris (Halifax, Canada)
- P1-13-14** Acoustic and wireless hearing in bone-anchored hearing
Arjan Bosman (Nijmegen, The Netherlands)
- P1-13-15** Fitting of the MED-EL Bonebridge system
Anna Ratuszniak (Warsaw, Poland)
- P1-13-16** Bone-anchored hearing implant loading at three weeks: stability, survival and tolerability after three years
Christine den Besten (Nijmegen, The Netherlands)
- P1-13-17** Improving speech in noise hearing performance of users of a bone conduction hearing system using a wireless remote microphone
Mark Flynn (Gothenburg, Sweden)
- P1-13-18** A national registry for bone anchored hearing implants
Sue Archbold (Nottingham, United Kingdom)
- P1-13-19** Evaluation of the MED-EL Bonebridge in single-sided deafness using a multisource noise field
Clemens Honeder (Vienna, Austria)
- P1-13-20** Baha attract versus Baha Dermalock system: multicenter comparative clinical study
Mete Iseri (Kocaeli, Turkey)
- P1-13-21** A minimally invasive technique for the implantation of Baha attract system
Mete Iseri (Kocaeli, Turkey)
- P1-13-22** Baseline of effectiveness, quality of life and soft tissue complications with Baha
Yiannakis Kyamides (Nicosia, Cyprus)
- P1-13-23** Initial results with the bone bridge active bone conduction device
Roberta Marino (Fremantle, Australia)
- P1-13-24** Bonebridge – performance and localisation results with a new bone conduction implant
Timo Stöver (Frankfurt/Main, Germany)
- P1-13-25** Bilateral Bonebridge implantation in a case of congenital conductive hearing loss. Lessons from the first North American case
David Morris (Halifax, Canada)
- P1-13-26** Bone anchored hearing implants installed with soft tissue preservation techniques – a systematic literature review
Marcus Holmberg (Askim, Sweden)
- P1-13-27** A wide bone anchored hearing implant: six months data from a prospective multi-center study
Anirvan Banerjee (Middlesbrough, United Kingdom)
- P1-13-28** Clinical evaluation of results of using new Baha® abutment covered by hydroxyapatite and new surgical technique without soft tissue reduction
Wojciech Gawęcki (Poznań, Poland)
- P1-13-29** Transcutaneous bone conduction implant (Bonebridge®) – first results in speech perception and directional hearing
Lars-Uwe Scholtz (Bielefeld, Germany)
- P1-13-30** Sound localization in patients supplied with the Bonebridge
Viktor Koci (Innsbruck, Austria)
- P1-13-31** Safety and performance of the Bonebridge™ Bone Conduction Implant System in children and adolescents
Gabriella Bock (Innsbruck, Austria)
- P1-13-32** Effectiveness and Impact on quality of life of Baha in Russian speaking patients
Neylya Mileschina (Moscow, Russia)

- P1-13-33** Long term-safety and effectiveness of the Bonebridge™ Bone Conduction Implant System in adults
Robert Wiek (Innsbruck, Austria)
- P1-13-34** Safety and performance of the Bonebridge™ Bone Conduction Implant System in children and adolescents
Gabriella Bock (Innsbruck, Austria)
- P1-13-35** Sound localization with a bone conduction hearing implant in patients with a unilateral air-bone gap: analogue vs. digital sound processors
Jolien Desmet (Edegem, Belgium)
- P1-13-36** Preoperative headband assessment for the MED-EL Bonebridge in conductive hearing loss: is it helpful or misleading?
David Morris (Halifax, Canada)
- P1-13-37** Baha in various acquired and congenital ear malformations in children
Maciej Mrowka (Warsaw, Poland)

P2-11 ePOSTER SESSION

▶ ePoster 2

**11:00–12:00**
ePoster 2**Complications**

- Chair: Robert Mlynski (Wuerzburg, Germany)*
Maciej Mrowka (Warsaw, Poland)
- P2-11-1** Correlation of vestibular testing with subjective symptoms before and after cochlea implantation
Arianne Monge Naldi (Zurich, Switzerland)
- P2-11-2** Electrophysiologic detection of scalar changing cochlea electrode arrays – a blinded study
Philipp Mittmann (Berlin, Germany)
- P2-11-3** Late sequela of recurrent acute otitis media in children after cochlear implantation
Noam Yehudai (Haifa, Israel)
- P2-11-4** Biofilm detection on cochlear implants
Natalie Kanaan (Hanover, Germany)
- P2-11-5** Effect of dexamethasone to reduce post-auricular swelling in the first day after cochlear implant
Saleh Alamry (Riyadh, Saudi Arabia)
- P2-11-6** Vacuum delivery – needs extra consideration before potentially cochlear implantation?
Saba Battelino (Ljubljana, Slovenia)
- P2-11-7** Baha surgery and complications depending on different strategies of surgery
Joergen Kohl (Halberstadt, Germany)
- P2-11-8** Pain in cochlear implant recipients – an uncommon, yet serious consequence of cochlear implantation
Yisgav Shapira (Tel Hashomer, Israel)
- P2-11-9** Cochlear implantation surgery – what are the risk factors for postoperative complications?
Natalie Kanaan (Hanover, Germany)
- P2-11-10** Approaches for the treatment of the cochlear implant users with long-term suppurative perifocal complications
Vigen Bakhshinyan (Moscow, Russia)
- P2-11-11** Complications in cochlear implantation
Franco Trabalzini (Siena, Italy)
- P2-11-12** Normalization of balance by vibrotactile neurofeedback therapy in cochlear implant patients with postoperative vertigo
Dietmar Basta (Berlin, Germany)
- P2-11-13** Electrode migration in cochlear implant recipients
Kerstin Willenborg (Hanover, Germany)

- P2-11-14** Surgical and medical management for complications in 700 consecutive cochlear implantations
E. C. Vinaya Kumar (Hyderabad, India)
- P2-11-15** Cochlear implant complications in Costa Rica: 11 years experience
Eladio Valverde Villalobos (San José, Costa Rica)
- P2-11-16** Cochlear implants' complications
Maciej Mrowka (Warsaw, Poland)
- P2-11-17** Skin flap complications after cochlear implantation
Wojciech Gawęcki (Poznań, Poland)
- P2-11-18** Case report: an accidental fall that could have required an MRI in the early stages after cochlear implantation surgery
Minoru Hara (Nagasaki, Japan)
- P2-11-19** Dura mater perforation caused by electrode migration – 14 years after cochlear implantation
Eva Fischer-Krall (Cologne, Germany)
- P2-11-20** A new method to prevent magnet migration
Eliana Cristofari (Varese, Italy)
- P2-11-21** Perioperative fever in children following cochlear implants surgery
Sabri El-Saied (Beer Sheva, Israel)
- P2-11-22** Evaluation effect of retained stylet in rehabilitation: a case report
Thanarath Imsuwansri (Nonthaburi, Thailand)
- P2-11-23** Cochlear implants, complications in Oman
Ammar Al Lawati (Hamria, Oman)
- P2-11-24** Postoperative complications of cochlear implantation surgery: experience in Beni Messous Hospital, Algiers
Amina Mouzali (Algiers, Algeria)
- P2-11-25** Cochlear Implant surgery without shaving: our experience
Fida Al-Muhawas (Riyadh, Saudi Arabia)
- P2-11-26** The risk of "silent" labyrinthitis in patients after cochlear implantation
Julia Gekeler (Cologne, Germany)
- P2-11-27** Pain with failure of cochlear implant device: a 5-patient pediatric experience
N. Wendell Todd (Atlanta, United States)
- P2-11-28** Electrode array misplacement into the superior semicircular canal: as a rare complication of cochlear implantation
Jing Sun (Hefei, China)
- P2-11-29** Reparation of external auditory canal with osteostimulation after secondary cholesteatoma in one patient with cochlear implant
Miguel Caballero (Barcelona, Spain)
- P2-11-31** Vestibular aspects in cochlear implant procedure
Piotr Skarzynski (Warsaw, Poland)
- P2-11-32** Speech discrimination following re-implantation of cochlear implants
Jayesh Doshi (Manchester, United Kingdom)
- P2-11-33** A model to evaluate explant force and trauma of intracochlear electrodes post chronic implantation
Frank Risi (Sydney, Australia)
- P2-11-34** Revision cochlear implant surgery in adults and children
Alessandra Murri (Piacenza, Italy)
- P2-11-35** Indonesian experiences in cochlear implant revision surgeries
Soekirman Soekin (Jakarta, Indonesia)
- P2-11-36** Hearing thresholds assessment of patients following 10 years of cochlear reimplant surgery
Lucas Costa (São Paulo, Brazil)

- P2-11-37** Hearing performance after two re-implant: a case study
Lucas Costa (São Paulo, Brazil)
- P2-11-38** A case report: a little girl with advanced Bionics cochlear implant, surgically treated twice for skin flap necrosis, and subsequently explanted and then re-implanted with MED-EL cochlear implant. Management and results
Antonio Della Volpe (Naples, Italy)

P2-12 ePOSTER SESSION

▶ ePoster 2

**12:00–13:00**
ePoster 2**Quality of life and economics**

- Chair: Sofia Aidona (Thessaloniki, Greece)*
Thomas Braun (Munich, Germany)
- P2-12-1** Promotion in the media of the cochlear implantation (technology/surgery/rehabilitation/outcomes) to sensitize the public and decision/policy makers
Marian Stamate (Bucharest, Romania)
- P2-12-2** Implications for clinical cost effectiveness using new intraoperative measuring technology
George Tavartkiladze (Moscow, Russia)
- P2-12-3** Sufficient organization of a cochlear implant team with rising patient numbers as a constant challenge – a problem-solving approach from Halberstadt
Uta Uhde (Halberstadt, Germany)
- P2-12-4** Speech perception and communication adaptation in patients with cochlear implants
Hui-Ping Lu (Tainan, Taiwan)
- P2-12-5** Cochlear implantation in prelingually deaf children: effect on quality of life and speech perception
Sofia Aidona (Thessaloniki, Greece)
- P2-12-6** Influence of psychological aspects on quality of life of pre and post-lingual cochlear implant users
Carlos Campos (São Paulo, Brazil)
- P2-12-7** Novel communication systems for the deaf people in a major disaster
Takao Yabe (Tokyo, Japan)
- P2-12-8** Children using hearing implants – quality of life, validation and initial results
Georgina Sanderson (Sydney, Australia)
- P2-12-9** Reliability of MED-EL cochlear implants in Romania
Marioara Poenaru (Timisoara, Romania)
- P2-12-10** Satisfaction evaluation between Digisonic SP monaural and binaural
Fernando Fernandes (Campinas, Brazil)
- P2-12-11** Comfort and satisfaction with the nucleus CP810 cochlear implant processor
Alicia Huarte (Pamplona, Spain)
- P2-12-12** CI in an adult active population
Alicia Huarte (Pamplona, Spain)
- P2-12-13** Evaluation of benefit from cochlear implantation in patients over 60 years old in terms of quality of life, speech comprehension, spatial hearing and speech quality
Marek Zdroźniak (Lublin, Poland)
- P2-12-14** Cochlear implantation in Macedonia
Makedonka Garvanlieva Nikolova (Skopje, Macedonia)
- P2-12-15** Historical role of a leading cochlear implant center in Brazil
Sonia Mesquita (Bauru, Brazil)
- P2-12-16** Hearing and life quality assessment in post-language patients following cochlear implant
Giselle Truzzi (Campinas, Brazil)
- P2-12-17** Changes in quality of life in prelingually and perilingually deaf adults following cochlear implantation
Miryam Calvino (Madrid, Spain)

- P2-12-18** Cochlear Implantation in a patient with a long history of dual sensory deprivation of deafness and blindness secondary to Nasopharyngeal Carcinoma: a case report
Sara AlMulhem (Riyadh, Saudi Arabia)
- P2-12-19** The impact of overlooked cerumen and or otitis media on the hearing threshold shift, and hearing acuity of speech in children with bilateral sensorineural hearing loss, a public health care problem
Naeimeh Daneshmandan (Tehran, Iran)
- P2-12-20** Hearing quality in cochlear implant users over 65 years
Susana Mauricio (Mendoza, Argentina)
- P2-12-21** Classroom participation and academic competence of cochlear implanted junior high school students in Japan
Yusuke Saito (Tokyo, Japan)
- P2-12-22** Relation between outcome and quality of life in elderly patients with unilateral cochlear implant
Juan Chiossone-Kerdel (Caracas, Venezuela)
- P2-12-23** Tîrgu Mureş, the youngest cochlear implant center in Romania
Gabriel Lostun (Tîrgu Mureş, Romania)
- P2-12-24** Change in attitude to cochlear implants in born deaf adults
Tracy Wright (Birmingham, United Kingdom)
- P2-12-25** High charge electrical stimulation is associated with hearing loss after hearing preservation cochlear implantation
J. Bertroche (Iowa City, United States)

INFORMATION FOR SPEAKERS AND PRESENTERS



Media Check

The media check is located on the mezzanine floor (between ground floor and first floor) next to the registration counter. The media check and all meeting rooms will be equipped with Microsoft Windows based PCs. For smooth operation of sessions speakers are requested not to bring their presentation directly to meeting rooms. All presentations and additional media files have to be delivered to the media check before the corresponding session starts. Speakers are requested to hand in their presentations at least 2 hours before their talk. Speakers having a presentation during the first time slot in the morning are asked to hand in their slides the day before. Technicians will assist with the upload of files and provide the opportunity to preview and/or edit the presentation if necessary. Should speakers be unavoidably delayed, they must still go directly to the media check. Speakers shall not bring a laptop or other media device to the session room.

Opening Hours

Wednesday	June 18, 2014	12:00–18:30
Thursday	June 19, 2014	07:00–18:00
Friday	June 20, 2014	07:00–18:00
Saturday	June 21, 2014	07:00–14:00

Technical Requirements

Verification of proper performance in the media check is essential, particularly if video and/or animation are included in the presentation. Please note that internet access will not be available during the presentation. When reviewing the presentation in the media check, make sure all fonts, images, and animations appear as expected and all audio or video clips are working properly.

The following presentation file types will be supported:

- Microsoft Office: PowerPoint, Word, Excel (.ppt, .pptx, .doc, .docx, .xls, .xlsx)
- Adobe Acrobat (.pdf)
- Media Files (.wmv, .mpg, .avi, .swf, .wav, .mov, .mp3)

Oral Presentations

Computer projection facilities (PowerPoint presentations) will be available in all meeting rooms. Presenters are advised to finalize their presentations well in advance. Presentation time is 5 min, followed by 3 min for questions/discussion. Please make sure the presentation does not take longer. Chairpersons are advised to strictly follow the schedule and interrupt if necessary.

ePoster Presentations

If you are interested in a specific ePoster and if the author allows the distribution of a PDF-version, you can enter your email address on the iPad. The poster will be sent to you via email which allows you to get in contact with the author of the poster aside from the ePoster- and snapshot presentations.

Video Presentations

Please note that video presentations are scheduled for 15 min (12 min videos and 3 min discussion). We strongly advise to adhere to the time limit. On-site videos will be presented on interactive ePoster terminals. Videos are available throughout the poster terminals without the speakers' attendance during the whole conference. Videos will also be available for download on the website after the conference, if the authors agree.

Snap Shot Presentations

Key results and message will be presented in a short oral presentation (4 min). Additionally authors will prepare an ePoster presenting background information, details about the study design, methodology as well as results. ePoster presentations will also be available for download on the website after the conference, if the authors agree.

All accepted abstracts will be published online and remain permanently accessible as a fully citable source at Open Access LMU, the platform for publications at LMU Munich University Library.

GENERAL CONFERENCE INFORMATION

Language

The official language of the conference will be English. Simultaneous translation will not be provided.

Conference Venue

Gasteig München GmbH
Rosenheimer Str. 5
81667 Munich, Germany

Registration

Registration on-site is possible at the registration desk situated on the mezzanine floor (between ground floor and first floor). However, waiting can be eased, if participants register online in advance. Pre-registered participants will receive a barcode which is required on-site in order to print the badge. Therefore, it is essential to have the barcode ready. Self-printing stations are located directly in front of the registration desk.

Phone: +49 (0)89 480 98 97150 and
+49 (0)89 80 98 97160

Opening Hours

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Saturday	June 21, 2014	07:00–16:30

Methods of Payment at the Registration Desk

On-site you will be able to pay by cash, debit order (for German participants only) or credit card (Visa, MasterCard, American Express).

Conference Documents

Registration fee for participants covers: admission to scientific sessions and satellite symposia, poster exhibition, industry exhibition, final program, collection of abstracts, conference bag, certificate of attendance, opening ceremony and welcome reception.

Registration fee for accompanying persons covers: Opening ceremony, admission to poster and industry exhibition.

Name Badge

The name badge will be the official ticket and should be worn at all times in order to access meeting rooms and exhibition halls. In case of lost or forgotten badges an administration fee of € 20 will be charged.

Cloakroom

The cloakroom is situated on the lower mezzanine level.

Opening Hours

Wednesday	June 18, 2014	12:00–21:30
Thursday	June 19, 2014	07:00–19:00
Friday	June 20, 2014	07:00–19:00
Saturday	June 21, 2014	07:00–18:30

Gastronomy

The catering stations for the coffee and lunch breaks are located in the exhibition halls (Foyer, Glas Hall). Participants will be offered snacks and beverages. These meals are included in the registration fee. During the breaks, various kinds of drinks will be offered in front of the Carl-Orff-Saal.

Internet Access

Free WIFI will be available in the conference venue. Login details will be provided onsite.

Conference App sponsored by MED-EL

Download the conference program to your mobile device (iPhone, Android). You will be able to view the day-by-day program, select sessions and create your own agenda. Just download the App www.medel.com/ci2014 from the App Store.

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Registration Fees	On-site (June 18–21, 2014)
Physicians	€ 680
Audiologist Scientists	€ 680
Residents in Training*	only pre-registration is possible
Non-medicals (Speech & Language Therapists)	only pre-registration is possible
Non-medicals (Audiologists)	only pre-registration is possible
Students*	only pre-registration is possible
Industry	only pre-registration is possible
Accompanying Persons	€ 50
Press*	€ 0
Day Tickets	€ 300
Day Tickets for Industry Members	€ 200
Networking Evening	€ 100

* Proof of status (e.g. valid student ID) is required.

GENERAL CONFERENCE INFORMATION



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CME Accreditation

The conference has been accredited by the national authority "Landesärztekammer Bayern" (LAEK Bavaria). You are kindly asked to register once a day at the accreditation counter at the registration desk in the entrance hall.

Opening Hours

Thursday	June 19, 2014	07:00–18:00
Friday	June 20, 2014	07:00–18:00
Saturday	June 21, 2014	07:00–12:00

Please bring enough EFN stickers for the accreditation lists (one sticker per day). You will receive a certificate with your credit points after the conference. All credits achieved by participants will be directly reported by the conference organizers to the "Landesärztekammer Bayern".

Certificate of Attendance

All registered participants will receive a certificate of attendance with their conference documents.

Photography, Audio, Video and Mobile Phone Policy

Audio, photo and video recording by any device (e.g. cameras, laptops, PDAs, mobile phones, watches) is strictly prohibited during all oral and poster sessions, unless prior permission is obtained from the conference organizer. Use of mobile phones is strictly prohibited during scientific sessions. Mobile phones must be switched off while attending sessions.

Helpful Telephone Numbers

Taxis in Munich	+49 (0)89 21 610
Police	110
Fire Service/Ambulance	112

Exhibition

Please join the industrial exhibition taking place in Foyer, Glass Hall. For further information please see the list of exhibitors and the floor plan.

Smoking

Smoking is strictly prohibited in the conference venue by law.

Prayer Areas

There are two areas set apart for prayer. They are quiet places where delegates may withdraw to seek divine strength and guidance. The prayer areas are located on the 3rd floor in front of the entrances R and M of Philharmonie. Signs will be displayed to facilitate directions.

Induction Loop for the Hard of Hearing

There are induction loops in the Carl-Orff-Saal, Black Box, Kleiner Konzertsaal and Vortragssaal der Bibliothek. Please get a map with suitable seats for hearing impaired people from the registration desk. There is no loop in the Chorprobensaal and the Philharmonie.

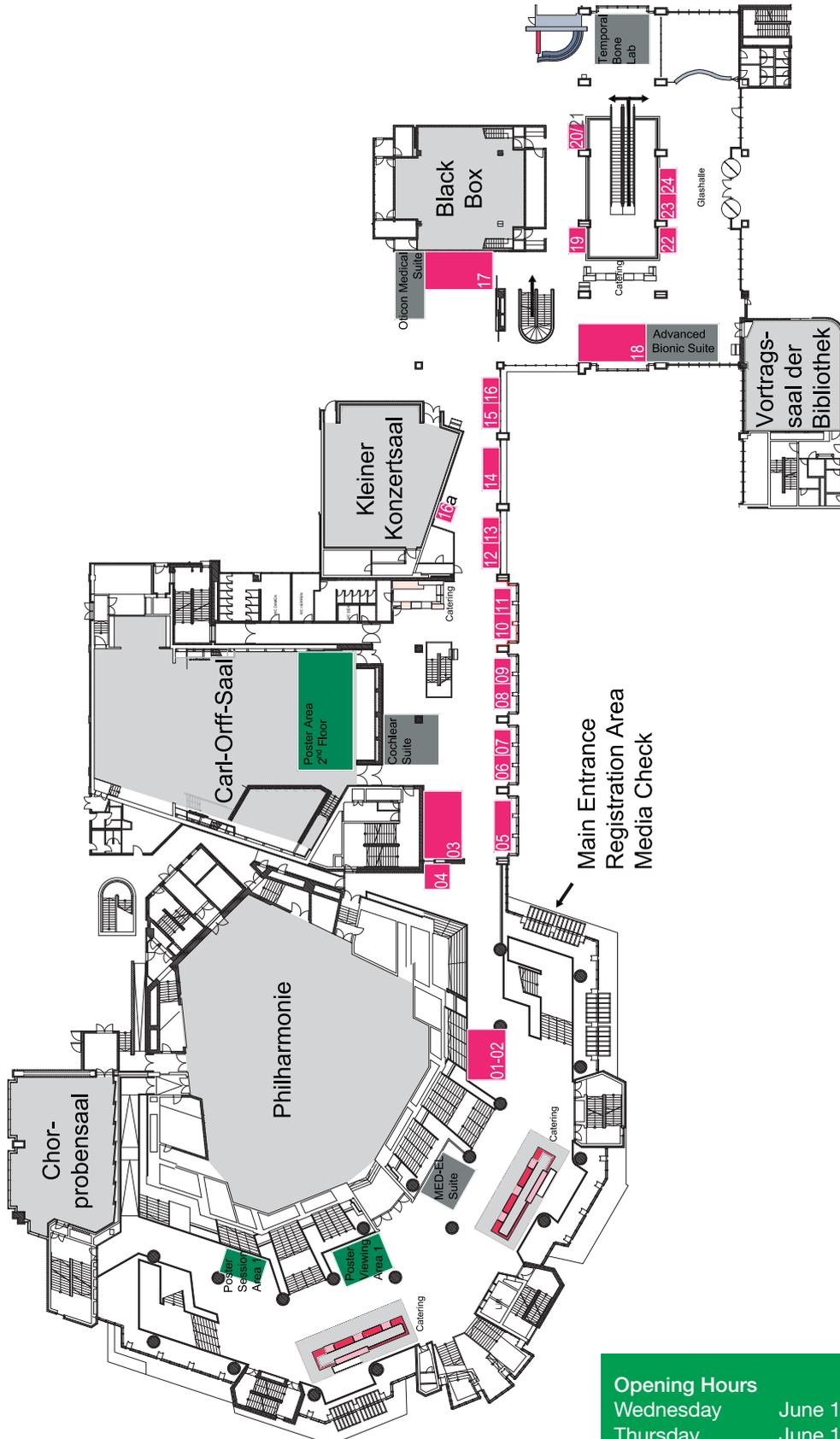
Program Changes

The organizer reserves the right to make changes if necessary. No full or partial refunds are made to the attendees in the event of cancellations or other changes in the program. Please note that changes will be posted at the registration desk and at the entrance of the session halls. Participants will be informed about the changes.

INDUSTRIAL EXHIBITION

FLOOR PLAN

Foyer, Glass Hall, 1st floor



Opening Hours		
Wednesday	June 18, 2014	13:00–18:00*
Thursday	June 19, 2014	08:30–18:30
Friday	June 20, 2014	08:30–18:30
Saturday	June 21, 2014	08:30–16:00

* Opening ceremony 18:15–19:30 and welcome reception 19:30–21:15

INDUSTRIAL EXHIBITION

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4	Fentex
4	Grace Medical
5	ARRI
6	Kurz – Heinz Kurz GmbH Medizintechnik
7	Innoforce
8	Spiggle & Theis Medizintechnik
9	Morita
10	KARL STORZ
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