Wednesday, June 19.

First Hall

15.15-16.15  MED-EL Symposium
16.15-16.30  Break
16.30-17.30  Amplifon Symposium

Noise tolerance & hearing aid use (15 min)
Amplifon Research

The Hidden Hearing Loss (15 min)
Prof. David McAlpine

Cognition & Hearing Loss (15 min)
Prof. Sophia Kramer

Dementia & Hearing Loss (15 min)
Dr Isabelle Mosnier

17.30-17.45  Break
17.45-18.15  Advanced Bionics Symposium
18.15-18.30  Break
18.30-20.00  Opening Ceremony
Békésy Memorial Session
Chair: József Géza Kiss, Kurt Stephan

20.00  Welcome Reception at Hotel Boscolo

Third Hall

11.00-14.00  EFAS commissions in seminar rooms
Thursday, June 20.

First Hall

08.00-09.00  Keynote 1

**Molecular Biology and Genetics of Hearing**
István Sziklai
*University of Debrecen, Hungary*

09.00-10.30  Structured Session 1

**Rehabilitation for children and adults after cochlear implantation – longterm follow-up programs in Europe**
Organized by: Gerard O’Donoghue, Norbert Dillier

Opening Video of long term CI patients: 'Reaching for Stars' (10 min)

Presentations (35 min):

*Participants: Rainer Beck (Freiburg); Norbert Dillier (Zurich), Monika Matusiak (Warsaw), Tracey Twomey (Nottingham), Anneke Vermeulen (Nijmegen), Josef Kiss (Szeged).*

Inquisition (45 min)

10.30-11.00  Coffee break

11.00-12.30  Structured Session 2

**Audiology, auditory neuropathy and genetics**
Organized by: Tobias Moser, Joseph Attias

**Pathophysiology of auditory neuropathy and synaptopathy** (20 min)
Tobias Moser
*InnerEarLab, Department of Otolaryngology, University of Göttingen Medical School, Robert-Koch-Strasse 40, D-37075 Göttingen, Germany*

**Auditory synaptopathy caused by mutations in the OTOF gene: how animal models can help to explain audiological test results.** (20 min)
Nicola Strenzke
*Auditory Systems Physiology Group, Dept. of Otolaryngology, University of Göttingen Medical School Sensory Research Center SFB 889*

**The varieties of Auditory Neuropathy: Clinical & Long term follow up** (20 min)

*Attias Joseph¹,²*, Raveh E³⁵, Aviva Fattal-Valevski¹⁵, Peled M², Efrati M².
¹Department for Communication Sciences & Disorders, University of Haifa, Haifa;
²Institute for Audiology and Clinical Neurophysiology,
³Department of Pediatric Otorhinolaryngology, Schneider Children’s Medical Center of Israel, Petach Tikva;
⁵Pediatric Neurology Unit, Tel Aviv Sourasky Medical Center, Tel Aviv;
²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv; Israel

**Management and Outcomes of Patients with Auditory Neuropathy/Dys-synchrony** (20 min)

*L.J. Hood¹, T. Morlet², C.I. Berlin³
¹Vanderbilt University, Nashville, Tennessee USA,
²A.I. du Pont Hospital for Children, Wilmington, Delaware USA
³University of South Florida, Tampa, Florida USA*

Discussion (10 min)
14.00-15.30  Structured Session 3  
**Modeling the impaired ear**
Organized by: Christian Lorenzi, Enrique A. Lopez-Poveda

**Introduction of the session** (5 min)

**Modelling effects of sensorineural hearing loss and age on temporal fine structure and envelope processing** (15 min)
Stephan D. Ewert, Steffen Kortlang  
*Medizinische Physik, Universität Oldenburg, Germany*

**Predicted effects of sensorineural hearing loss on within- and across-fiber temporal coding** (15 min)
Jayaganesh Swaminathan¹, Michael Heinz², Charlotte Reed¹, Louis Braida¹ and Joseph Desløge¹  
¹Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, MA, ²Purdue University, West Lafayette, IN

**A model of auditory deafferentation** (15 min)
Enrique A. Lopez-Poveda1,2,3, Pablo Barrios4,4  
¹Instituto de Neurociencias de Castilla y León, University of Salamanca, Spain  
² Instituto de Investigación en Biomedicina de Salamanca, Spain  
³Departamento de Cirugía, Facultad de Medicina, University of Salamanca, Spain  
⁴Unidad de Foniatría, Logopedia y Audiología, Hospital Universitario de Salamanca, Spain

** Modeling the impact of cochlear impairment on brainstem processing** (15 min)
Dan Goodman, Alain de Cheveigné, Christian Lorenzi, Jean-Marc Edeline, Akadiusz Stasiak, Ian Winter

**Modeling the Peripheral and Central Effects of Cochlear Impairment** (15 min)
I.C. Bruce¹, M. Chrostowski¹, S. Becker¹  
¹McMaster University, Hamilton, ON, Canada, ²Lab. For Experimental Audiology, University Hospital, Zürich, Switzerland

**General questions and conclusions** (10 min)
General Audiology programs: The Nordic model; Challenges and Progress over the years (15 min)
Arne Vik
Sor-Trondelag University College, Aalesund, Norway

Market place of university education programs: each program should be represented both by students and by program leaders to make their specialties known to the other programs (30 min)
Norbert Dillier
Zürich

University college Leonard de Vinci : Teaching Audiology in the heart of Europe since 1969
P. Verheyden, Emily Markessis
Department of Audiology, University college Leonard de Vinci, Brussels

Master of Science study program “Hearing technology and audiology” in Germany
T. Brand, B. Kollmeier
Department of Medical Physics and Acoustics, University of Oldenburg

Audiology and Optometry - a new model in education
Annette Limberger
Aalen University of Applied Sciences, Aalen, Germany

The audiology program at the Karolinska Institutet in Stockholm Sweden
Å. Skjönsberg, A. Hagerman-Siirala, P. Herrlin, J. Hägerström, H. Wallsten, AC. Johnson
Karolinska Institutet, Dept. of clinical science, intervention and technology, unit of audiology, Huddinge, Sweden

Podium discussion : What are the requirements from the students and teaching staff to EFAS? (15 min)

Second Hall

09.00-10.30 Free Papers

Age Related Hearing Loss
Audiology, Auditory Neuropathy And Genetics

Persistence of Otoacoustic Emissions in children with Auditory Neuropathy Spectrum Disorders
Hossam S.Talaat1, Lobna H. Khalil 2, Ahmed Khafagy3, Mariyam Elkandary4, Ahmed Zein 1
1Department of Otolaryngology, Audiology unit, Menoufya University, Egypt,
2Department of Otolaryngology, Audiology unit, Ain Shams university, Egypt,
3Department of Otolaryngology, Ain Shams university, Egypt, 4Department of Audiology, Sabah Hospital, Kuwait

Acoustic Change Complex and Auditory Perception Profile of Children with Auditory Neuropathy Spectrum Disorder (ANSD)
Esra Ozcebe1, Esra Yucel1, Meral Didem Turkyilmaz1, Süha Yaşcıoğlu2, Merve Batuk Özbal1,
Songül Aksoy1, Gonca Sennaroglu1
1University of Hacettepe Medical Faculty, E.N.T Audiology Department,
2University of Hacettepe Medical Faculty Biophysics Department
Cryptococcal meningitis revealed by auditory neuropathy and vestibular neuritis in the absence of immunodeficiency
A. Bascoul, E. Ionescu, R. Herman, E. Veuillet, H. Thai-Van
Université Lyon 1, Lyon F-69003, France, Hospices Civils de Lyon, Service d’audiologie et d’explorations Orofaciales, Hôpital Edouard Herriot, Lyon, F-69003, France, Centre de Recherche en Neurosciences de Lyon, INSERM U1028 CNRS UMR5292, France

Comparative analysis of objective audiometric results and neuropathy parameters in patient groups with different duration of diabetes mellitus
J. Jarabin, F. Tóth, J. G. Kiss, T. T. Várkonyi, L. Rovó
Department of Otorhinolaryngology, University of Szeged, Hungary

The examinations of the cochlear function in diabetic neuropathy
F. Tóth, TT Várkonyi, J Jarabin, Zs Sevacsek, L Rovó, CS Lengyel, JG Kiss
Department of Otolaryngology, Head and Neck Surgery, 1st Department of Medicine, University of Szeged, Szeged, Hungary

A long-term follow-up of hearing and tinnitus in Swedish adult males
Å. Skjönsberg, R. Bogo, K. Karlsson, M. Svartengren, A. Farah, AC. Johnson
Karolinska Institutet, Dept. of Clinical science, intervention and technology, unit of audiology, Stockholm, Sweden, Karolinska University Hospital, Dept. of audiology and neurotology, Huddinge, Sweden, Uppsala University, Dept. of Medical Sciences, Occupational and Environmental Medicine, Uppsala Sweden, Karolinska University Hospital, Center for Occupational and Environmental Medicine, Stockholm County Council, Sweden

Age-related hearing loss in elderly male twins: a longitudinal study
R. Bogo, M. Svartengren, A. Farah, K.K. Karlsson, AC. Johnson, Å. Skjönsberg
Karolinska Institutet, Dept. of Clinical science, intervention and technology, unit of audiology, Stockholm, Sweden, Uppsala University, Dept. of Medical Sciences, Occupational and Environmental Medicine, Uppsala Sweden, Karolinska University Hospital, Center for Occupational and Environmental Medicine, Stockholm County Council, Sweden, Karolinska University Hospital, Dept. of audiology and neurotology, Huddinge, Sweden

Communication Problems in Hearing-Impaired Elderly
Songul Aksoy, Filiz Aslan
Hacettepe University, Faculty of Health Sciences, Department of Audiology

10.30-11.00 Coffee break

11.00-12.30 Free Papers

Audiological Rehabilitation
Speech tests independent from language

Speech perception in quiet, in stationary noise and in fluctuating noise in cochlear implant listeners
Hast A, Schlücker L, Digeser F, Hoppe U
CICERO - CI Centrum Erlangen, ENT clinic, university clinic Erlangen

Health-related quality of life in prelingually deafened adolescents after cochlear implantation
A.V. Balakina, M.M. Litvak, A.V. Starokha
Tomsk Branch of the FSBE “RESEARCH CENTER OF OTORHINOLARYNGOLOGY OF THE FMBA”
Assessing and predicting speech perception in early-deafened late-implanted adults
Philips Birgit, Baudonck Nele, Dhooge Ingeborg
UZ Gent, Belgium

Modification of freefield audiometry technique for speech processor fitting
M. Litvak, A. Starokha
Siberian State Medical University, Tomsk, Russia

Satisfied clients use their hearing aids more – myth or reality?
C. Nielsen, A. Laplante-Lévesque, L. D. Jensen
Eriksholm Research Centre, Snekkersten, Denmark

Better together: reduced compliance after sequential vs. simultaneous bilateral hearing aids fitting
Lavie L1, Banai K1, Attias J1, Karni A2.
1 Department of Communication Sciences and Disorders, University of Haifa,
2 Sagol Department of Neurobiology & Ethology and EJ Safra Brain Research Center,
University of Haifa

How can we make sure that hearing impaired children becomes an integrated part of a class
Anna Karlsson Lejon
Comfort Audio AB

Validation of the Auditory Adaptive Speech Test in the group of patients with Partial Deafness
Lorens A1, Coninx F2, Lutek A1, Piotrowska A1, Skarżyński H1
1 Institute for Physiology and Pathology of Hearing, Warsaw, Poland;
2 Institute fur Audiopedagogik at the University of Cologne, Germany

12.30-14.00 Lunch

14.00-15.30 Free papers

Basic Science And Genetics In Audiology

MTHFR 677T as an important determinant of a degree of hearing loss among Polish males with postlingual sensorineural hearing impairment
Pollak A1, Mueller-Malesinska M1, Lechowicz U1, Skorka A2, Korniszewski L1, Sobczyk-Kopciol A1, Waskiewicz A1, Broda G1, Oldak M2, Skarzyński H1, Ploski R3
1 Institute of Physiology and Pathology of Hearing, ul. Zgr. AK Kampinos 1, 01-943 Warsaw, Poland,
2 Department of Paediatrics, Medical University of Warsaw, Poland,
3 Department of General Biology and Parasitology, Medical University of Warsaw, Poland,
4 Department of Cardiovascular Diseases Epidemiology, Prevention and Health Promotion, Institute of Cardiology, ul. Alpejska 42, 04-628 Warsaw, Poland,
5 Department of Histology and Embryology Center of Biostructure Research, Medical University of Warsaw, Chałubińskiego 5, 02-004 Warsaw, Poland,
6 Department of Medical Genetics, Medical University in Warsaw, ul. Pawinskiego 3c, 02-106 Warsaw, Poland

Novel N714H mutation in WFS1 identified by exome sequencing and linkage analysis as a cause of autosomal dominant hearing loss
Lechowicz U1, Pollak A2, Podgór ska A1, Oldak M2, Mueller-Malesinska M1, Korniszewski L1, Skarżyński H1, Ploski R3
1 Institute of Physiology and Pathology of Hearing, Warsaw,
2 Department of Histology and Embryology, Medical University of Warsaw,
3 Department of Medical Genetics, Medical University in Warsaw
GJB2 gene testing in infants with sensorineural hearing loss: what does it give to audiologist?
M.R.Lalayants 1, E.A. Bliznezech 2, T.G.Markova 1, V.V.Bakhshinyan 1, A.V.Polyakov 2, G.A.Tavartkiladze 1
1 National Research Centre for Audiology and Hearing Rehabilitation, Moscow, Russia, 2 Medical Genetic Centre, Russian Academy of Medical Sciences, Moscow, Russia

Audiologic and genetic determination of hearing loss in osteogenesis imperfecta
F. Swinnen 1, E. De Leenheer 1, P. Coucke 2, C. Cremers 3, I. Dhooge 1
1 Department of Otorhinolaryngology, Ghent University Hospital, Belgium, 2 Center for Medical Genetics, Ghent University Hospital, Belgium, 3 FC Donders Institute for Neurosciences, Department of Otorhinolaryngology, Radboud University Nijmegen Medical Centre, The Netherlands

Audiological features of hereditary form of prelingual sensorineural hearing loss in Belarus
E.P. Merkulava 1, A.M. Levaya-Smaliak 2, N.G. Danilenko 3, Olejnik O.A. 3
1 Belarusian Medical Postgraduate Academy, Minsk, Belarus, 2 State Scientific and Practical Center of Otorhinolaryngology, Minsk, Belarus, 3 Institute of Genetics and Cytology, Minsk, Belarus

The First Linkage Analysis Study On Families With Hereditary Hearing Loss In Southern Egyptian Population Revealed Unexpected Results
M.R. Mohamed 1, M. Baur 2, P. Nuernberg 3, M. Pfister 2
1 Audiology Unit, Department of Otolaryngology, Assiut University Hospitals, Egypt, 2 Department of Otolaryngology, Head and Neck Surgery, University of Tuebingen, Germany, 3 Cologne centre for genomics, University of Cologne, Germany

Recent advances in genetic hearing loss in Egypt
M.R. Mohamed 1, A. Bress 2, P. Nurnberg 3, M. Pfister 2
1 Audiology Unit, Department of Otolaryngology, Assiut University Hospitals, Egypt, 2 Department of Otolaryngology, Head and Neck Surgery, University of Tuebingen, Germany, 3 Cologne centre for genomics, University of Cologne, Germany

Morphological and Proteomics Research in Human Cochlear
Wei Liu
Department of Otology, Uppsala University Hospital, Sweden

15.30-16.00 Coffee break
16.00-17.30 Free papers

Hearing Aids

The Evolution of Directionality
Derya Ceylan
Global Audiology, GN ReSound

Evidence-Based Wind Noise Reduction Strategies
K. Chung 1, 2, K.B.Nie 1
1 Affiliation of Chung: Northern Illinois University, 2 Affiliation of Nie: University of Washington

Effects of nonlinear frequency compression on speech perception in noise in normal hearing subjects
R.J.J.H.M. Miserus 1, A.J. Bosman 2
1 Department of Otorhinolaryngology, Radboud University Medical Centre, Nijmegen, The Netherlands
Loudness-based percentile fitting (LPFit) – A new era in hearing aid fitting?
S. Kreikemeier, J. Kiessling
Justus Liebig University Giessen, Department of Audiology

Speech Perception with Hearing Aids in Comparison to Audiological Measures
Ulrich Hoppe 1, Thomas Hocke 2, Frank Digeser 1, Horst Hessel 2
1Cochlear Implant Center CICERO, ENT Dept., University of Erlangen-Nuremberg, Erlangen, Germany
2Cochlear Deutschland GmbH & Co. KG, Hannover, Germany

Speech understanding with the Baha BP110 Power and the Baha Intenso
Martin Kompis, Anja Kurz, Marco Caversaccio
Department of ENT, Head and Neck surgery, Inselspital, University of Bern, Switzerland

I Hear You - Second Generation Bluetooth Hearing Aid Accessory
L. H. Hernvig1, B. Kirkwood2, C. T. Jespersen3
1Global Audiology, GN ReSound,
2Global Audiology, GN ReSound,
3Global Audiology, GN ReSound

Device-to-device Communication - How to Fit ReSound’s Binaural Fusion
L. H. Hernvig
Global Audiology, GN ReSound

Third Hall

09.00-10.30 Free Papers
Paediatric Audiology

Differential diagnostics severe versus profound hearing loss in infants using ASSR “CE Chirp”
Spiewak P, Spiewak B.
Independent Audiology Services Audiofonika Bielsko-Biala Poland

Specificity of hearing impairment in children with central nervous system pathologies
D.A. Shukurov, G.S. Khaydarova
ENT department of Second Clinic of Tashkent Medical Academy, Tashkent, Uzbekistan

Evaluation of Carboplatin Chemotherapy on Time-Frequency features of Transient-Evoked otoacoustic emissions in Children
Gabriella Tognola1, Shaum Bhagat2,3, Alessia Pagliaonga1, Emma Chiaramello1
1CNR Italian National Research Council, Institute of Biomedical Engineering, Milan, Italy
2Hearing Science Laboratory, School of Communication Sciences and Disorders, The University of Memphis
3St. Jude Children’s Research Hospital, Memphis, USA

Minimal hearing loss in school age children – prevalence and consequences
Piotrowska A1, Pilka A1, Kochanek K1, Śliwa L1, Jędrzejczak WW1, Skarżyński PH2
1Institute for Physiology and Pathology of Hearing, Warsaw, Poland
2World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw, Poland

Speech language skills in children with hearing loss connected to otitis media
Jasenka Broz Frajtag, Dinah Vodanovic
Speech language pathologist, University Clinical Hospital Center Zagreb, Kišpatičeva 12, Departement of Otolaryngology, Zagreb, Croatia
Audiological assessment in infants
S. Spiric, P. Spiric, D. Travar, S. Spremo, M. Gnjatic
ENT clinic University clinic center Banja Luka, Bosnia and Herzegovina

A new interactive & self-paced speech test for children
P. Zoth¹, A. Bohnert², V. Schirkonyer³, A. Keilmann², T. Janssen³
¹PATH medical GmbH, Germering, Germany
²Department for Oto-Rhino-Laryngology, Division for Communication Disorders, Medical Center of the Johannes Gutenberg-University Mainz, Germany
³ENT-Clinic, Klinikum rechts der Isar, Technische Universität München, Germany

Auditory temporal and spectral processing and speech perception in noise of older people
H. Putter-Katz¹, N. Horev¹,², H. Pratt³
¹Communication Sciences and Disorders, Ono Academic College, Kiryat Ono, Israel,
²Technion- Israel Institute of Technology, Haifa, Israel

10.30-11.00 Coffee break
11.00-12.30 Free Papers

Vestibular And Balance Disorders

Disequilibrium Screening Test Battery
Sorina Stoian¹, Madălina Georgescu¹,²
¹Carol Davila’ University of Medicine and Pharmacy Bucharest, Romania
²Institute of Phono-Audiology and Functional ENT Surgery Bucharest, Romania

Retrograde viral labeling of vestibular and auditory neurons from the nasolabial region of rats
Frigyes Helfferich¹, Guillaume Lourmet¹, Éva Rebeka Szabó¹, Zsolt Boldogkői², Miklós Palkovits³
¹Neuromorphological and Neuroendocrine Research Laboratory, Department of Anatomy, Histology, and Embryology, Semmelweis University and the Hungarian Academy of Sciences, Budapest, Hungary
²Department of Medical Biology, Faculty of Medicine, University of Szeged, Szeged, Hungary

Sensory organization test results in school-aged children with attention-deficit/hyperactivity disorder
Aydnlı Esen Fatma¹, Çınar Çiçek Betül¹, Pektaş Alev², Kirazlı Meltem Ciğdem¹, Çak Tuna³, Çengel Kültür Ebru³, Aksoy Songül¹
¹Hacettepe University ENT Department Audiology and Speech Pathology Unit
²Bezmi Alem University, Health Sciences Faculty Audiology Department
³Hacettepe University, Faculty of Medicine Child & Adolescent Mental Health Department

Association between vestibular testing and balance performance in children with a bilateral hearing impairment
L. Maes¹, A. De Keget², H. Van Waelvelde², I. Dhooge³
¹Ghent University, Department of Oto-Rhino-Laryngology and Logopaedic-Audiologic Sciences, Ghent, Belgium
²Artevelde University College - Ghent University, Department of Rehabilitation Sciences and Physiotherapy Ghent, Ghent, Belgium

Evidence of Cortical activity in symptomatic epileptic vertigo
Heba R.Kamel¹, Salma H.Khalil², MahaM.Nada³, Hany M.Zakieldine¹, Lobna H. Khalil¹
¹Department of Neurophysiology, Cairo university, Egypt
²Department of Neurology and Psychiatry, Ain Shams university, Egypt
³Department of Otolaryngology, Audiology unit, Ain Shams university, Egypt
Virtual reality – treatment option for uncompensated unilateral vestibular loss
Madalina Georgescu 1,2
1 Institute of Phono-Audiology and ENT Functional Surgery Bucharest, Romania
2 University of Medicine and Pharmacy ‘Carol Davila’ Bucharest, Romania

12.30-14.00 Lunch
14.00-15.30 Free Papers

Hearing Screening

Using the SUN (Speech Understanding in Noise) test in occupational hearing conservation: A pilot study in a group of noise-exposed workers
Alessia Paglia longa1, Gabriella Tognola1, Cristian Botti2, Ferdinando Grandori1
1 CNR Italian National Research Council, Institute of Biomedical Engineering, Milan, Italy
2 EARTECH, Parma, Italy

Efficient hearing screening in noise-exposed listeners using the Digit Triplet test
S. Jansen 1, H. Luts 1, P. Dejonckere 1,2, A. van Wieringen 1, J. Wouters 1
1 KU Leuven, Dept. of Neurosciences, ExpORL, Leuven, Belgium
2 Federal Institute of Occupational Diseases, Brussels, Belgium

Differentiated Screening with the Adaptive Auditory Speech Test (AAST) using different masking conditions.
F. Coninx
Institut für Audiopädagogik, Solingen/Germany (at the University of Cologne)

DuoTone - a new procedure for Pure Tone Audiometry
F. Coninx
Institut für Audiopädagogik, Solingen/Germany (at the University of Cologne)

Diagnostic pure tone evaluation after hearing screening in school children
Piotrowska A1, Lorenz As, Piłka A1, Kochanek K1, Śliwa L1, Jędrzejczak WW1, Skarżyński PH2, Skarżyński H1
1 Institute for Physiology and Pathology of Hearing, Warsaw, Poland
2 World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw, Poland

15 years of general AABR-screening for newborns in Flanders reveals new socio-demographic determinants of hearing impairment in term babies
Erwin Van Kerschaver MD, PhD
Kind en Gezin, Brussels Belgium

Prevalence of sensorineural hearing loss of postnatal onset in children aged 10 years
Kurt Stephan, Viktor Weichbold
Department for Hearing, Speech and Voice Disorders, Innsbruck Medical University

Auditory Neuropathy Spectrum Disorders in Schools for the Deaf and the Hard of Hearing in Belgium
Willems M.
University College of Arteveldehogeschool, Audiology Department, Ghent, Belgium

15.30-16.00 Coffee break
Ear and Hearing Screening Program for Athletes with Intellectual Disability during Special Olympics

Willems M.1,2, van Berlaer G.3,4
1University College of Arteveldehogeschool, Lecturer in Audiology, Audiology Department, Ghent, Belgium
2Global Clinical Advisor, Healthy Hearing Program, Special Olympics International
3University Hospital of Brussels, Pediatrician/Emergency Physician, Brussels, Belgium
4Medical Advisor, Healthy Hearing Program, Special Olympics Belgium

Hearing impairment after passing neonatal screening - OAE markers and the need for preschool screening

Inger Uhlén, Azam Soleimani-Kondori, Sara Mikelöv & Linda Persson
Dept of Audiology and Neurootology, Karolinska University Hospital

Evaluation of universal newborn hearing screening program (UNHS) in Malaysia: Operation and technology management approach

Hamzah Sulaiman

Measurability and reliability of evoked otoacoustic emissions in background noise

H. Keppler 1, D. Batteldooren 2, B. Vinck 1, A. Bockstael 2
1 Ghent University, Department of Oto-Rhino-Laryngology and Logopaedic-Audiologic sciences, Ghent, Belgium
2 Ghent University, Department of Information Technology, Acoustics Research Group, Ghent

Chirp-evoked otoacoustic emissions in adults and children

W. W. Jedrzejczak, K. Kochanek, L. Sliwa, A. Piotrowska, E. Pilka, H. Skarzynski
World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw/Kajetany, Poland

0.5 kHz tone burst-evoked otoacoustic emissions in schoolchildren

W. W. Jedrzejczak, A. Piotrowska, K. Kochanek, L. Sliwa, H. Skarzynski
World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw/Kajetany, Poland

Tracking-Software for Newborn Hearing Screening and Preschool Screening – Bi-directional Data Exchange with Mobile Instruments

Böttcher Peter1, Matulat Peter2, Lepper Ingo1
1 PATH medical GmbH, Germany
2 Department for Phoniatrics and Pedaudiology University Hospital Münster

Wireless and out of the box bi-directional data transfer for newborn hearing screening devices

Peter Matulat1, Hans Oswald2, Ingo Lepper2, Peter Böttcher2, Antoinette am Zehnhoff-Dinnnesen1
1 Department for Phoniatrics and Pedaudiology, University Hospital of Münster, Germany
2 PATH medical GmbH, München and Münster, Germany
Fourth Hall

09.00-10.30 Free Papers

Basic Audiology

Direct activation of the inner ear by fluid pressures at low sound intensities
C. Adelman¹,², R. Perez³, S. Chordekar⁴, H. Sohmer⁵
¹Speech & Hearing Center, Hebrew University School of Medicine - Hadassah Medical Center, Jerusalem, Israel
²Department of Communication Disorders, Hadassah Academic College, Jerusalem, Israel
³Department of Otolaryngology and Head and Neck Surgery, Shaare Zedek Medical Center, Jerusalem, Israel;
⁴Department of Communication Disorders, Sackler Faculty of Medicine, Tel Aviv University, Israel
⁵Department of Medical Neurobiology (Physiology), Institute for Medical Research - Israel-Canada, Hebrew University-Hadassah Medical School, Jerusalem, Israel

Hearing in a sound field when air conduction is ruled out: By bone conduction or by soft tissue conduction
S. Chordekar¹, Y. Schwarz², C. Adelman³,⁴, L. Kishon-Rabin¹, H. Sohmer⁵
¹Department of Communication Disorders, Sackler Faculty of Medicine, Tel Aviv University, Israel
²Department of Otolaryngology and Head and Neck Surgery, Shaare Zedek Medical Center, Jerusalem, Israel
³Speech & Hearing Center, Hadassah Medical Center, Jerusalem, Israel
⁴Department of Communication Disorders, Hadassah Academic College, Jerusalem, Israel
⁵Dept. of Medical Neurobiology (Physiology), Institute for Medical Research - Israel-Canada, Hebrew University-Hadassah Medical School, Jerusalem, Israel

Bone conduction experiments in human temporal bones using intracochlear pressure sensors
Christof Stieger¹,², John J. Rosowski², Hideko H. Nakajima²
¹Department of ORL, University of Basel, Basel, Switzerland
²Department of Otology and Laryngology, Harvard Medical School and Eaton-Peabody Laboratory, Massachusetts Eye and Ear Infirmary, Boston MA, USA

Linear and nonlinear click evoked otoacoustic emissions and removal of a short-latency stimulus artifact
W. W. Jedrzejczak¹, A. Bell², S. Hatzopoulos³, P. H. Skarzynski¹,⁴,⁵, K. Kochanek¹, H. Skarzynski¹
¹World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw/Kajetany, Poland
²John Curtin School of Medical Research, ANU, Canberra, Australia
³Department of Audiology, University of Ferrara, Ferrara, Italy
⁴Otolaryngology and Rehabilitation Clinic, Medical University of Warsaw, Poland
⁵Institute of Sensory Organs, Kajetany, Poland

Non-Traumatic Daily Listening Activities on Cochlear Responses in Humans
A. Moulin¹, C. Richard², JB Nottet¹
¹Centre de recherches en Neurosciences de Lyon ; Equipe dynamique cérébrale et cognition ; Université de Lyon ; Université de Saint Etienne ; 50, Av. T. Garnier, 69366 LYON cedex 07.,
²Service d’ORL et chirurgie cervico-faciale, Hôpital Nord, CHU de Saint-Etienne, 42055 St Etienne cedex 02.
¹Hôpital d’instruction des Armées du Val de Grâce, Paris
Speech Recognition in Fluctuating and Continuous Maskers and Auditory Efferent Feedback
A. Moulin¹, G. Andéol²
¹Lyon Neurosciences Research Center; Cerebral Dynamics and Cognition Team; Otology and Auditory Cognition Group; Lyon University; 50, Av. T. Garnier, 69366 LYON cedex 07, France
²IRBA. Institut de Recherche Biomédiale des Armées. Paris, France

Can the acceptable noise level (ANL) predict hearing aid use patterns?
Steen Østergaard Olsen¹, K. Jonas Brännström²
¹Research Laboratory, Department of Otorhinolaryngology, Head and Neck Surgery, Copenhagen University Hospital, Rigshospitalet, Denmark,
²Department of of Logopedics, Phoniatrics and Audiology, Clinical Sciences, Lund University, Lund, Sweden

Automatic Eye Gesture Detection and Classification during Hearing Assessment for Patients with Cognitive Decline
A. Fernández¹, Vázquez C², Gigirey L.M², M. Ortega¹, M. G. Penedo¹
¹VARPA Group, Department of Computer Science. University of A Coruña. Spain
²Audiology Unit – Faculty of Optics and Optometry. University of Santiago de Compostela, Spain

10.30-11.00 Coffee break

11.00-12.30 Free Papers
Elect Cochlear implantation
Auditory Diagnosis
Imaging in Audiology

Acoustic Change Complex in Cochlear Implant Users
Meral Didem Türkylmaz¹, Süha Yağcıoğlu², Mehmet Yaralı¹, Betül Çiçek Çınar¹, Suna Yılmaz², Gonca Sennaroglu¹
¹University of Hacettepe Medical Faculty, E.N.T Audiology Department
²University of Hacettepe Medical Faculty Biophysics Department
³University of Ankara Health Science Faculty, Audiology Department

Auditory steady-state responses as a measure of cochlear implant channel performance
Lieselot Van Deun, Michael Hofmann, Robert Luke, Astrid van Wieringen, Jan Wouters
KU Leuven, Dept. Neurosciences, ExpORL, Leuven, Belgium

The importance of Brainstem Auditory Responses in the diagnosis of vestibular schwannoma
J. Dršata, D. Kalféť, M. Černý
Department of Otorhinolaryngology and Head and Neck Surgery University Hospital Hradec Královo, Charles University in Prague, Faculty of Medicine in Hradec Královo

Auditory Steady State Responses (ASSR) - Case study using new portable device (PATH Medical GmbH)
Russell Higgs¹, Thomas Rosner²
¹PATH medical GmbH, Germany
²Institute for Real-Time Computersystems, Technische Universität München, Germany

Diagnostic pure-tone audiometry in schools: mobile testing without a sound-treated environment
D Swanepeol¹,2,3, F Maclennan-Smith¹, JW Hall III¹
¹Department of Communication Pathology, University of Pretoria, South Africa
²Ear Sciences Centre, School of Surgery, the University of Western Australia, Nedlands, Australia
³Ear Science Institute Australia, Subiaco, Australia
On the issue of early detection of sensorineural component of hearing loss in patients with otosclerosis
Jamol I. Kholmatov, M.S.Muhamedova
Tajik state medical university, Privat clinic “Shifo”

12.30-14.00 Lunch
14.00-15.30 Free papers
Cochlear implantation4
Psychoacoustics

Initial experiences with innovative CI fitting technology
G. A. Tavartkiladze, V. V. Bakhshinyan
National Research Centre for Audiology and Hearing Rehabilitation Moscow, Russia

Role and implications of efficient intra-operative Auditory diagnostics
G. A. Tavartkiladze, V. V. Bakhshinyan
National Research Centre for Audiology and Hearing Rehabilitation Moscow, Russia

Clinical use of CR120 and Nucleus Fitting software
Saji Maruthurkkara1, Panos Stavropoulos2
1Cochlear Ltd, Sydney Australia
2Cochlear Europe Ltd, UK

The association between MEDEL Auditory Nerve Response Telemetry thresholds and behavioral programming levels in children
R. Kaplan Neeman1,3, C. Muchnik1,3, Z. Yakir1, F. Bloch1, L. Lipshutz1, Y. Shapira2, L. Migirov2, M. Hildesheimer1,3, Y. Henkin1,3
1Hearing, Speech & Language Center and
2Department of Otolaryngology, Head and Neck Surgery, Sheba Medical Center, Tel Hashomer
3Department of Communication Disorders, Sackler Faculty of Medicine, Tel-Aviv University, Israel

Acoustically evoked stapedius reflex in users of MED-EL cochlear implants
S.M. Petrov, M.I. Gritsyuk
Saint-Petersburg ENT Research Institute, Russia

Lateralization based on temporal cues in bilateral cochlear implant users
Asher H. Efrati, Joseph Attias
University of Haifa, Faculty of Social Welfare and Health Sciences Department of Communication Sciences and Disorders

Tullio phenomenon in candidates for cochlear implant
C. Adelman1,2, M. Adler1, M. Kaufmann1
1Speech & Hearing Center, Hebrew University School of Medicine - Hadassah Medical Center, Jerusalem, Israel
2Department of Communication Disorders, Hadassah Academic College, Jerusalem, Israel

Outcomes in post-meningitis ci patients following minimal invasive trans canal technique
Arsovic N., Mikic B., Bukurov B., Dudvarski Z.
Institute for ENT and MFS, Clinical Centar of Serbia

15.30-16.00 Coffee break
Binaural processing of speech reflections in rooms in hearing-impaired listeners
A. Warzybok¹, T. Brand¹, B. Kollmeier¹
¹Department of Medical Physics and Acoustics, University of Oldenburg

Screening Checklist for Auditory Processing in Adults: An Initial Report
Ramya, V¹, Yathiraj, A¹
¹All India Institute of Speech and Hearing, Mysore, Karnataka, India

Analysis of oxidative stress influence upon hearing in rats with diabetes mellitus
Maksym Tarasenko
Bogomolets National Medical University, Kiev, Ukraine

Correlation between audiological and pathomorphological data of cochlea in rats with initiated diabetes mellitus
Deyeva Y.V.
Bogomolets National Medical University, Kiev, Ukraine

Paediatric otitis media at a primary health care clinic in South Africa
L. Biagio¹, D. Swanepoel¹,², C. Laurent¹,³, J. W. Hall III¹, T. Lundberg⁴
¹Department of Communication Pathology, University of Pretoria, South Africa
²Ear Sciences Centre, School of Surgery, the University of Western Australia, Nedlands, Australia
³Ear Science Institute Australia, Subiaco, Australia
⁴Umeå University, Sweden

Nationwide network of teleaudiology in postoperative care over implanted patients
Skarzynski P.H.¹,²,³, Wasowski A.²,³, Bruski L.³, Pankowska A.²,³, Majchrzak A.²,³, Skarzynski H.¹,²
¹Institute of Physiology and Pathology of Hearing, Warsaw, Poland
²Otolaryngology and Rehabilitation Clinic, Medical University of Warsaw, Poland
³Institute of Sensory Organs, Kajetany, Poland
⁴World Hearing Center, Kajetany, Poland

Video-otoscopic recordings in children within a South African telehealth service
L. Biagio¹, D. Swanepoel¹,², C. Laurent¹,³, T. Lundberg⁴, J. W. Hall III¹
¹Department of Communication Pathology, University of Pretoria, South Africa
²Ear Sciences Centre, School of Surgery, the University of Western Australia, Nedlands, Australia
³Ear Science Institute Australia, Subiaco, Australia
⁴Umeå University, Sweden

Validation of TeleAudiology Equipment
J.L. Clark¹,², A.M. Cardella¹
¹University of Texas at Dallas
²University of The Witwatersrand
Friday, June 21.

First Hall

08.00-09.00  Keynote 2
  Time, Speech and Brain
  Martin Meyer
  University of Zürich

09.00-10.30  Structured Session 4
  Speech tests independent from language
  Organized by: Birger Kollmeier, Jan Wouters

Speech tests for international multilingual use: the Digit Triplet and Matrix Test in different languages (15 min)
  Birger Kollmeier, Melanie Zokoll, Ania Warzybok, Sabine Hochmuth, Kirsten Wagener, Thomas Brand
  Centre of Excellence for Hearing Research and Medical Physics, Universität Oldenburg, and Hörttech gGmbH, D- 26129 Oldenburg, Germany

French and Dutch speech intelligibility tests: A comparative approach (15 min)
  Heleen Luts1, S. Jansen1, R. Houben2, W.A. Dreschler2, A. van Wieringen1, J. Wouters1
  1KU Leuven, Dept. Neurosciences, ExpORL, Leuven, Belgium,
  2Academic Medical Center, Clinical and Experimental Audiology, Amsterdam, The Netherlands

RUMatrix test: Construction, Evaluation and clinical validation (15 min)
  Maria Boboshko1, A. Warzybok2, M. A. Zokoll2, N. Maltseva1
  1St. Petersburg Pavlov State Medical University, Russia,
  2Carl von Ossietzky University Oldenburg, Germany

A Norwegian Matrix test: Five word sentences and three word utterances (15 min)
  Jon Øygarden
  Department of Audiology, Health Education and Social Work, University College of Sør-Trøndelag, Trondheim, Norway

Emerging solutions from different countries and languages (30 min)

Development of Turkish Matrix Test
  Dilek Fidan1, İclal Ergenç2
  1Kocaeli University, Faculty of Education Department of Turkish Language Teaching, Kocaeli, Turkey
  2Ankara University, Faculty of Letters Department of Linguistics, Ankara, Turkey

An Arabian Matrix test
  Nadja Abdulhaq

A Persian matrix sentence test
  Leila Fayazi1, Yahya Modarresi2, Melanie A. Zokoll1, Sabine Hochmuth1, Birger Kollmeier3
  1Office of special education, Baqhebanschool, Tehran, Iran,
  2Department of linguistics, Institute for humanities and cultural studies, Tehran, Iran,
  3University of Oldenburg, Department of medical Physics and Acoustics, Germany

Matrix Sentence Tests in Noise for the Italian language
  S. Hochmuth, M. A. Zokoll, R. Carroll, B. Kollmeier
  University of Oldenburg, Department of medical Physics and Acoustics
Polish Matrix Sentence Test for speech intelligibility measurements in young people and children
E. Ozimek, D. Kutzner, P. Libiszewski, A. Warzybok
Faculty of Physics, Institute of Acoustics, Adam Mickiewicz University, Umultowska 85, Poznań 61-614, Poland

Estonian speech tests and comparison to other languages
A. Veispak1, S. Jansen2, P. Ghesquière1, J. Wouters2
1 KU Leuven, Parenting and Special Education Research Unit, Leuven, Belgium,
2 KU Leuven, Dept. of Neurosciences, ExpORL, Leuven, Belgium

10.30-11.00 Coffee Break

11.00-12.30 EFAS Special Session 2
European School Children Hearing Screening
Organized by: Jan Wouters, Henryk Skarzynski

Introduction (5 min)
Hearing Screening in School Age Children in Poland – past, present and future (10 min)
Henryk Skarżyński, Anna Piotrowska, Krzysztof Kochanek, Piotr H. Skarżyński
Kajetany

Report of EFAS Working Group on pre-school and school age hearing screening (SHS) (10 min)
J. Wouters1, F. Coninx2, A. Davis3, W. Dreschler4, F. Grandori5, E. Laukli6, T. Sirimanna7, H. Skarzynsk8
1 KU Leuven, Dept. of Neurosciences, ExpORL, Leuven, Belgium
2 Institut für Audiopädagogik, Solingen, Germany
3 MRC Hearing and Communication Group, London, UK
4 Academic Medical Center, Clinical and Experimental Audiology, Amsterdam, The Netherlands
5 Institute of Biomedical Engineering CNR, Milano, Italy
6 Dept. of Clinical Medicine, University of Tromsø, Norway
7 Great Ormond Street Hospital, London, UK
8 Institute of Physiology and Pathology of Hearing, Warsaw, Poland

School hearing screening in the UK (20 min)
Heather Fortnum1,2, A. Allardice3, C. Benton4, S. Catterick1,2, L. Cocking5, C. Hyde6, J. Moody7,8, V. Nikolau6, M. Ozolins1,2, R. S. Taylor6, O. Ukoumunne8, J. Watson9
1 National Institute for Health Research Nottingham Hearing Biomedical Research Unit, UK,
2 University of Nottingham, UK,
3 Nottinghamshire Healthcare – County Health Partnerships, Nottinghamshire Healthcare NHS Trust, Nottingham, UK,
4 Nottingham University Hospitals NHS Trust, Nottingham, UK,
5 Peninsula Clinical Trials Unit (PenCTU), University of Plymouth, UK,
6 Exeter Medical School, University of Exeter, UK,
7 Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK,
8 Cambridgeshire Community Services NHS Trust, Cambridge, UK,
9 Parent member of the research team

Automated procedures for hearing screening from age 4 year (15 min)
Frans Coninx
Institut für Audiopädagogik, Solingen/Germany (at the University of Cologne)
Feasibility of the Digit Triplet test for hearing screening in school-aged children (15 min)
Sofie Jansen 1, H. Luts 1, K. Van Hoeck 2, C. Guérin 2,3, K. Van Doorslaer 2, K. Hoppenbrouwers 3, A. van Wieringen 1, J. Wouters 1
1 KU Leuven, Dept. of Neurosciences, ExpORL, Leuven, Belgium
2 VWVJ - Flemish Scientific Association of Youth Health Care, Leuven, Belgium
3 KU Leuven, Dept. Public Health and Primary Care, Youth Health Care, Leuven, Belgium

Music exposure through mp3-players and the risk of music-induced hearing loss at age 12 and beyond (15 min)
M. Adluni-Sheikh Rashid1, J. de Laat2, W. Dreschler2
1 Academic Medical Center, Clinical & Experimental Audiology, Amsterdam, The Netherlands
2 Leiden University Medical Center, Dept. of Audiology (ENT), Leiden, The Netherlands

12.30-14.00 Cochlear Symposium / Lunch

14.00-15.30 50th National Conference of the Audiology Sections of the Hungarian Society of Oto-Rhino-Laryngology, Head and Neck Surgery

15.30-16.00 Coffee Break

16.00-18.00 50th National Conference of the Audiology Sections of the Hungarian Society of Oto-Rhino-Laryngology, Head and Neck Surgery

20.00 Banquet dinner (optional program)

Second Hall

09.00-10.30 Free papers

Combined Acoustic And Electric Hearing Partial Deafness Treatment

The influence of different types of acoustic amplification on hearing performance in subjects with electric-acoustic stimulation
Anke Lesinski-Schiedat1, Thomas Lenarz1, Nicole Neben2, Theo Harpel1, Mark Schuessler1, Andreas Buechner3
1 Department of Otorhinolaryngology, Medical University of Hannover (MHH),
2 Cochlear

Comparative cohort analysis of long term stability of residual hearing in CI-candidates using two hearing preservation electrodes
Anke Lesinski-Schiedat1, Thomas Lenarz1, Nicole Neben2, Theo Harpel1, Mark Schuessler1, Andreas Buechner3
1 Department of Otorhinolaryngology, Medical University of Hannover (MHH),
2 Cochlear

Binaural interaction of electrically and acoustically evoked auditory brainstem responses in three bimodal listeners
Lindsey Van Yper, Eddy De Vel, Katrien Vermeire, Ingeborg Dhooge
Dept. of Otorhinolaryngology and Head and Neck Surgery, Ghent University Hospital, University of Ghent, Belgium
15 year experience with hearing preservation and over decade achievements with Partial Deafness Treatment (PDT)
Skarzynski H. 1,4, Lorens A 1,4, Piotrowska A 1,4, Skarzynski P.H. 1,2,3,4, Matusiak M 1,4
1 Institute of Physiology and Pathology of Hearing, Warsaw, Poland,
2 Otolaryngology and Rehabilitation Clinic, Medical University of Warsaw, Poland,
3 Institute of Sensory Organs, Kajetany, Poland,
4 World Hearing Center, Kajetany, Poland

Electric Acoustic Stimulation: Long-term results of hearing preservation up to 10 years.
G. Mertens, A. Kleine Punte, P. Van de Heyning
Univ. Dept. Otorhinolaryngology and Head and Neck Surgery, University Hospital Antwerp,
University of Antwerp, Antwerp, Belgium

Application of Nucleus SRA electrode (CI422) in subjects with various levels of residual low-frequency hearing
H. Skarzynski1, A. Lorens1, M. Matusiak1, M. Porowski1, PH. Skarzynski2, CJ. James3
1 Institute for Physiology and Pathology of Hearing, Warsaw, Poland,
2 World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw, Poland,
3 Cochlear France, Toulouse, France

The hearing preservation characteristics of Nucleus cochlear implant electrode arrays
C.J. James1, E. von Wallenberg2
1 Cochlear France SAS, Toulouse,
2 Cochlear AG, Basel

Towards standardization of reporting on hearing preservation outcomes after cochlear implantation
Paul J Boyd1, Chris J James2, Ernst von Wallenberg2
1 Manchester Ear, Nose & Throat Clinic, UK,
2 Cochlear Ltd

10.30-11.00 Coffee break
11.00-12.30 Free papers

Evaluation of Nucleus 6 in a group of existing adult recipients
Esti Nel, Michelle Knight, Chris Warren, Marian Jones
Cochlear Limited

Speech Performance in Noise with the Nucleus® 6 Sound Processor and Dynamic FM Systems
Catherine Morgan, Vijay Marimuthu
Cochlear Limited

An industry first: Wind noise reduction for Nucleus® 6 cochlear implant recipients
Esti Nel1, Sasha Case1, Chris Warren1, Marian Jones3, Lori White2
1 Cochlear Limited Sydney
2 Cochlear Corporation Denver

Early Australian Experience with Nucleus® 6 in Adult Recipients
Esti Nel, Marian Jones, Michelle Knight, Chris Warren
Cochlear Limited

Evaluation of Nucleus® 6 in adult users of the Nucleus 5 cochlear implant system
F. Swinnen1, B. Philips1, G. De Ceulaer2, P. Govaerts2, D. Pascoal2, K. Weekers2, M. Killian2, I. Dhooge1
1 Ghent University Hospital, Belgium,
2 The Eargroup, Deurne, Belgium,
3 Cochlear, Mechelen, Belgium
First Look: Data Logging with Cochlear Nucleus 6
Rami Banna, Esti Nel, Mario Boutet, Marian Jones

Preliminary Experience and Acceptance of the Nucleus® 6 Sound Processor with School-aged Children
Andrzej Zarowski¹, Leen Theuwis¹, Anke Plasmans², Erwin Offeciers¹
¹ European Institute for ORL-HNS, AZ Sint Augustinus, Antwerp, Belgium
² Cochlear Limited

Clinical considerations and fitting guidelines for Nucleus 6 Hybrid mode
M. Jones¹, Ruth English, Jennie Gorrie
Cochlear Limited¹

12.30-14.00 Lunch
14.00-15.30 Free papers

Cochlear implantation

The benefit of an adaptive beamformer in Cochlear Implant systems
Martina Brendel¹, Gunnar Geissler¹, Iris Arweiler¹, Philipp Hehrmann¹, Karl-Heinz Dyballa², Stefan Fredelake¹, Volkmar Hamacher¹, Andreas Buechner²
¹ Advanced Bionics GmbH, European Research Center, Hanover, Germany,
² Medical University of Hanover, Department of Otolaryngology, Hanover, Germany

The TComm for the Neptune Processor – Results on Speech Intelligibility and Sound Quality
Martina Brendel¹, Gunnar Geissler², Andreas Büchner², Thomas Lenarz²
¹ Advanced Bionics GmbH, European Research Center, Hanover, Germany,
² Medical University of Hanover, Department of Otolaryngology, Hanover, Germany

Neptune™, the first swimmable sound processor for cochlear implant recipients: feedback on its daily use
¹ Centro Implant Coclear, Rome, Italy,
² Leiden University Medical Centre, Leiden, The Netherlands,
³ Medizinische Hochschule Hannover, Hannover, Germany,
⁴ University of Naples “Frederico II”, Naples, Italy,
⁵ Hospital Niño Jesús, Madrid, Spain,
⁶ Hospital Son Espases, Palma de Mallorca, Spain,
⁷ South of England Cochlear Implant Centre, Southampton, United-Kingdom,
⁸ Cochlear Implant Centrum “Wilhelm Hirte”, Hannover, Germany,
⁹ Singapore General Hospital, Singapore,
¹⁰ Chinese University of Hong Kong, Hong Kong,
¹¹ Queen Elizabeth Hospital, Hong Kong,
¹² Advanced Bionics, Rixheim, France

Cochlear Implant speech processor fitting the day after re-implantation
Joachim Müller-Deile, Thomas Kortmann, Goetz Brademann, Matthias Hey
ENT-Clinic, Christian-Albrechts-University of Kiel

Evolution of electrically evoked stapedius reflex thresholds in patients with CI
Josef Seebacher, Viktor Koci, Kurt Stephan
Department for Hearing-, Speech- and Voice Disorders, Medical University of Innsbruck, Anichstrasse 35, A-6020 Innsbruck
Speech processor programming in case of non-auditory effects
F Tóth, AL Nagy, J Jarabin, A Szamosközi, J Jóri, L Rovó, JG Kiss
University of Szeged, Department of Otolaryngology and Head and Neck Surgery, Szeged, Hungary

Time for paradigm Change in Clinical Care
Dr. Dr. h.c. Monika Lehnhardt
Prof. Ernst Lehnhardt-Stiftung

Development and Validation of a Sound Quality Questionnaire for Hearing Implant Users: The Hearing Implant Sound Quality Index (HISQUI)
Ilona Anderson1, Edda Amann1
1 MED-EL Elektromedizinische Geräte GmbH, Innsbruck

Third Hall
09.00-10.30 Free Papers
Auditory Electrophysiology

An analysis of concordance in the diagnosis of hearing loss BETWEEN three different audiological clinics
Barajas de Prat, JI1, Zenker, F2, Estrada Alonso, MM1
1 Fundación Canaria Dr. Barajas para la Prevención e Investigación de la Sordera, Santa Cruz de Tenerife, Canary Islands, Spain
2 Clinica Barajas, Santa Cruz de Tenerife, Canary Islands, Spain

Assessment of effectiveness of algorithms applied in Vivosonic integrity device for rejection of muscle Artefacts in abr recordings
Skarzynski P.H.1,2,3,4, Pilka A.1,4, Sliwa L.1,4, Kochanek K.1,4, Skarzynski H.1,4
1 Institute of Physiology and Pathology of Hearing, Warsaw, Poland
2 Otolaryngology and Rehabilitation Clinic, Medical University of Warsaw, Poland
3 Institute of Sensory Organs, Kajetany, Poland
4 World Hearing Center, Kajetany, Poland

Indicators of electroencephalography and brainstem auditory evoked potentials in the beginning sensorineural hearing loss
A.Yu.Shidlovsky
Department of Otolaryngology National Medical University, Kiev, Ukraine

Electrophysiological resting state activity in comorbid dyslexia and Central Auditory Processing Disorders
M. Lewandowska, R. Milner, M. Ganc, E. Włodarczyk, K. Cieśla, H. Skarżyński
World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/Warsaw, Poland

The Investigation of CAEP responses in young adults having musical education
Zahra Polat, Ahmet Ataş, Hüseyin Deniz, Serpil Hülya Ahmet
Faculty of Health Sciences, Istanbul University

Test-retest study of optimal multi-feature Mismatch Negativity paradigm in children.
Suna Yılmaz1, Meral Didem Turkyilmaz2, Suha Yagcioglu1, Guzide Uluskar2, Betul Cicek Cinar2, Gonca Sennaroglu2
1 Ankara University, Health Sciences Faculty, Audiology Department
2 Hacettepe University, Medical Faculty, E.N.T Audiology Department
3 Hacettepe University, Medical Faculty, Biophysics Department
Combining Auditory Steady State Response and the Otoacoustic Emissions in objective screening and prediction of hearing thresholds in Noise-induced hearing loss
Hanin Karawani\textsuperscript{1}, Joseph Attias\textsuperscript{2}, Rafi Shemesh\textsuperscript{1}
\textsuperscript{1}The Department of Communication Sciences and Disorders, Faculty of Social Welfare and Health Sciences, University of Haifa, Haifa, Israel,
\textsuperscript{2}Head of the Department of Communication Sciences and Disorders, Faculty of Social Welfare and Health Sciences, University of Haifa, Haifa, Israel

Impact of sound and noise exposures on distortion-product otoacoustic emission (DPOAE)
Á Pérenyi, F Tóth, LA Nagy, L Rovó, JG Kiss
University of Szeged, Dept. of Otorhinolaryngology, Head and Neck Surgery Szeged, Hungary

10.30-11.00 Coffee Break
11.00-12.30 Workshops of the 50\textsuperscript{th} National Conference of the Audiology Sections of the Hungarian Society of Oto-Rhino-Laryngology, Head and Neck Surgery
12.30-14.00 Lunch
14.00-15.30 Free Papers

\textbf{Tinnitus And Hyperacusis}

How promising is the diagnosis of somatosensory tinnitus?
Branka B. Geczy
Audiologic Department of the University Clinic of Otorhinolaryngology and cervicofacial surgery Ljubljana, Slovenia

Noise induced tinnitus without permanent noise induced hearing loss; does it exist?
Carolyn Ainsworth, Robin Yeoh
Department of Audiovestibular Medicine, St Helier Hospital, London, England

Electrocochleographic Study in Patients with Tinnitus
Hiroaki Nishida
Nishida ENT Clinic, Yokohama, Japan

Sound stimulation during sleep for the treatment of subjective idiopathic tinnitus
J. de Laat
Leiden University Medical Center, Dept. of Audiology (ENT), Leiden, The Netherlands

Tinnitus severity and its psychological aspects
Songul Aksoy, Sule Harman
Hacettepe University, Faculty of Health Sciences, Department of Audiology

Spatial hearing improvement and long-term suppressive effect on tinnitus after cochlear implantation in profoundly single-sided-deaf patients
G. Mertens, A. Kleine Punte, P. Van de Heyning
Univ. Dept. Otorhinolaryngology and Head and Neck Surgery, University Hospital Antwerp, University of Antwerp, Antwerp, Belgium

15.30-16.00 Coffee Break
Vocational rehabilitation programs for employees with hearing impairment: a systematic overview of the literature and a description of the ‘Vocational Enablement Protocol’ (VEP) study design
Arienne H.M. Gussenhoven1,2, S Theo Goverts 1, Joost M Festen 1, Johannes R Anema 2,3, Sophia E. Kramer 3
1. Department ENT/Audiology and EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, The Netherlands
2. Department of Public and Occupational Health and EMGO Institute for Health and Care Research, VU University Medical Center, Amsterdam, The Netherlands,
3. Research Center for Insurance Medicine AMC-UWV-VUmc, Amsterdam, The Netherlands

Validation of the Dutch version of the Hearing Implant Sound Quality Index (HISQUI-NL)
G. Mertens, M. De Bodt & P. Van de Heyning
Univ. Dept. Otorhinolaryngology, Head and Neck Surgery, Antwerp University Hospital, Belgium Faculty of Medicine, University of Antwerp, Belgium

Auditory neuropathy: A case of the late hearing recovery
Taryn Walker, Borka Ceranic
Department of Audi vestibular Medicine St George’s Hospital, Blackshaw Road, London SW17 0QT

The Effect of Round Window versus Cochleostomy Technique on Neural Response Telemetry Results in Cochlear Implantation
Güney Kırkm1, Bülent Şerbetcioğlu1, Serpil Mungan Durankaya1, Enis Alpin Güneri2
1. Dokuz Eylül University Faculty of Medicine, Department of Otorhinolaryngology Hearing-Speech and Balance Unit İzmir-Türkiye
2. Dokuz Eylül University, Faculty of Medicine, Department of Otorhinolaryngology İzmir-Türkiye

Student’s beginner approach to audiologist-patient consultation
Peter E. Czigler1, Kirk P.H. Sullivan2
1 Örebro University, Sweden, Department of Health and Medical Sciences
2 Umed University, Sweden, Department of Language Studies

Bachelor and Master of Science in Logopaedic and Audiological Sciences – Main subject audiology at Ghent University (Belgium)
K. Van Lierde 1, B. Vinč 1,2, L. Maes 1, H. Keppler 1, S. Degoeest 1, P. Cortals 1,3
1. Ghent University, Department of Oto-Rhino-Laryngology and Logopaedic-Audiologic Sciences, Ghent, Belgium
2. University of Pretoria, Department of Communication Pathology, Pretoria, South Africa,
3. University College Ghent, Department of Speech Therapy and Audiology, Ghent, Belgium

Vestibular evoked myogenic potentials in benign paroxysmal positional vertigo: a preliminary study
Müşdeci B.1, Ünal A.2
1 Numune Training & Research Hospital, Ear Nose Throat, Hearing Speech and Balance Centre-Ankara-Turkey
2 Numune Training & Research Hospital, Ear Nose Throat Clinic-Ankara-Turkey

Fat graft myringoplasty for small tympanic membrane defects as an alternative to standard tympanoplasty
Lana Kovač Bilić, Anamarija Šimunčić Veselić, Krsto Dawidowsky, Srečko Branica
Department of ENT and HNS, University Hospital Center Zagreb, Croatia
Study of amplitude-frequency characteristics of some prosthesis for ossiculoplasty
O. Khorov1, U. Novsialetski1, V. Yanichkin2, A. Balykin2
1 Grodno State Medical University, Belarus
2 Yanka Kupala State University of Grodno

Mixed Hearing Loss Secondary to Erosion of the Inner Ear by High-Riding Jugular Bulb
A.C. Bachiller1, C. Domingo1, A. Muñoz2, M. Martinez2, M.A. Rodriguez2, M. Perea2, P. Gete, O. Alvarez2
1 Department of Otolaryngology, Infanta Leonor Hospital, Madrid
2 Department of Radiology, Infanta Leonor Hospital, Madrid

Assessment of the feasibility and clinical value of further research to evaluate the management options for children with Down syndrome and glue ear.
H. Fortnum1,2, P. Leighton2, M. D. Smith2, L. Brown1,2, M. Jones2, C. Benton1, E. Marder3, A. Marshall1, K. Sutton4
1 National Institute for Health Research Nottingham Hearing Biomedical Research Unit, Nottingham, UK
2 University of Nottingham, UK
3 Nottingham University Hospital Trust, Nottingham, UK
4 Nottinghamshire Community Health, Nottingham, UK

Late onset permanent childhood hearing loss in the first five years of life
A. M. Dighe, V C Mainstone
Children’s Hearing Services, Child Health Department, Sirona Care & Health, Bath BA1 3QE
UK

Children with high-frequency cochlear dead regions do not use low-frequency information for speech perception more effectively than children without dead regions
Alicja N. Malicka1, Kevin J. Munro1, Thomas Baer1, Richard J. Baker2, Brian C. J. Moore3
1 School of Health and Rehabilitation Sciences, The University of Queensland, Australia
2 School of Psychological Sciences, The University of Manchester, UK
3 Department of Experimental Psychology, University of Cambridge, UK

Enlarged Internal auditory canal in children: clinical and audiological findings
ENT Department Hospital Infantil Universitario Niño Jesús. Madrid. Spain

Rescue intratympanic corticosteroid therapy in sudden hearing loss treatment
Milica Tatović, Snežana Babac, Snežana Sanković Babić, Zoran Ivanković, Rade Kosanović
ORL Clinic of Clinical Hospital Centre Zvezdara, Belgrade, Serbia

Long-term results of surgical autoadipocyte cells transplantation in patients with unilateral vocal fold immobility after surgery on the thyroid gland
I. Odnokozov, O. Khorov, J. Aleshchyk
Grodno State Medical University

Modulation of tinnitus perception and auditory processing via transcranial magnetic stimulation
Alicja N. Malicka1, Wayne J. Wilson1, Caroline Barwood1, Bradley McPherson2, Bruce Murdoch1
1 School of Health and Rehabilitation Sciences, The University of Queensland, Australia,
2 Division of Speech and Hearing Sciences, The University of Hong Kong, Hong Kong

Tinnitus severity and the relationship with measures of mental health
A. McCormack1,2, H. Fortnum1, A.M. Edmondson-Jones2, D.R. Moore2,3
1 NIHR Nottingham Hearing Biomedical Research Unit, University of Nottingham, UK
2 MRC Institute of Hearing Research, Nottingham, UK
3 Cincinnati Children’s Hospital Medical Center
Quality of life in patients with tinnitus and sensorineural hearing loss
Reza Zarenoe, Torbjörn Ledin
Linköping University Faculty of Health Sciences, Dept of Clinical and Experimental Medicine, Div of Oto-Rhino-Laryngology

Vestibular dysfunction assessment in patients with different types of chronic suppurative otitis media
Makaryna - Kibak L.E., Kulchitsky P.N.,
National Centre of Otorhinolaryngology

20.00 Banquet dinner (optional program)

Fourth Hall

09.00-10.30 Free papers

Other Topics1

The learning curve of cholesteatoma surgery: follow up of audiological results
Milan Stankovic, Dusan Milisavljevic, Petar Stankovic
University ORL Clinic Nis, Serbia

Our experience in chronic exudative otitis media treatment in adults
L. Makaryna-Kibak1, O. Alehno1
1Republic Scientific and Practical Centre of Otorhinolaryngology, Minsk, Belarus

Hearing status of children and adolescents with alpha-mannosidosis
SteenØstergaard Olsen1, Line Borgwardt2, Allan Meldgaard Lund2, Christine i Dali2, Lars Holme Nielsen3
1Research Laboratory, Department of Otorhinolaryngology, Head and Neck Surgery, University Hospital, Rigshospitalet, Copenhagen, Denmark
2Department of Clinical Genetics, Centre for Inherited Metabolic Disorders, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

Peculiarities of middle ear diseases among population of Tajikistan
Jamol I. Kholmatov
Tajik state medical university, Privat clinic "Shifo"

Preservation ventilation of the middle ear to improve the audiological results of tympanoplasty
O. Khorov, E. Golovach
Grodno State Medical University

Arytenoid lateropexy in unilateral vocal cord palsy patients with effort dyspnoea
Vera Matievics, László Szakács, Balázs Sztanó, Alice Szamosközi, László Rovó
Oto-Rhino- Laryngology and Head- Neck Surgery Department, University of Szeged

Central hearing impairment due to trauma? -- Case history
Vera Matievics1, János Jarabin2, Sahram Madani2, Máté Lázár3, József Géza Kiss1, László Rovó4
1Oto-Rhino- Laryngology and Head- Neck Surgery Department, University of Szeged
2MEGA ltd. Szeged
3Euromedic Diagnosztics Hungary
Genetic analysis of hypertrophic cardiomyopathy patients with sensorineural hearing disorders
Miklós Csanády Jr¹, Róbert Sepp², Ferenc Tóth¹, Timea Tóth², Andrea Orosz², Mártia Hőgye², József Géza Kiss¹, József Jóri¹, Tamás Forster², Jenő Czigner¹, Miklós Csanády sen²
¹ Department of Otolaryngology, Head and Neck Surgery
² 2nd Department of Medicine, University of Szeged, Szeged, Hungary

10.30-11.00 Coffee break
11.00-12.30 Free papers
Education In Audiology
Other Topics²
Partial Deafness Treatment
Speech Tests Independent From Language

On the Efficacy of Audiometric Training Procedures
Arjan J. Bosman
Department of Otorhinolaryngology Radboud University Nijmegen Medical Centre, The Netherlands

Remote control App
Derya Ceylan¹
¹Global Audiology, GN ReSound

Cross-sectional analysis of audiology articles published in the SCI otorhinolaryngology journals by Turkey and 17 other countries in 3 different years (2000, 2010 and 2012): a bibliometric study
Taner Kemal Erdag¹, Gunay Kirkim², Bulent Serbetcioglu²
¹Dokuz Eylul University School of Medicine, Department of Otolaryngology, Izmir / Turkey
²Dokuz Eylul University School of Medicine, Speech, Hearing and Balance Unit, Izmir / Turkey

Speech perception of English as a foreign language by Mandarin Chinese speakers
Wu Mian, Lena Wong
Division of Speech and Hearing Sciences, the University of Hong Kong

Music perception in patients after Partial Deafness Treatment (PDT)
Koci V.¹, Piotrowska A.², Woelliner T.¹, Lorenz A.², Stephan K.¹, Skarzyński H.²
¹Department of Hearing, Speech and Voice Disorders, Innsbruck Medical University, Austria
²Institute of Physiology and Pathology of Hearing, Warsaw/Kajetany, Poland

Insertion depth angle in relation to hearing preservation in partial deafness cochlear implantation
H. Skarzyński, M. Matusiak, M. Furmanek, M Porowski, M Mrówka, PH Skarzyński
Institute of Physiology and Pathology of Hearing, Warsaw, Poland

Assessment of hearing preservation in relation to cochlea size in substantial low frequency hearing cochlear implantation
H. Skarzyński, M. Matusiak, M. Furmanek, A Lorenz, PH Skarzyński
Institute of Physiology and Pathology of Hearing, Warsaw, Poland

Influence of fundamental frequency on the ability to recognize speech in noise: Effects of low and high frequency hearing impairment
Birgitta Larsby¹²
¹Technical Audiology/IKE, Linköping University, Sweden
²Linnaeus Centre HEAD, Linköping University, Linköping, Sweden

12.30-14.00 Lunch
14.00-15.30 Poster Session 1

**Acceptance of hearing aids in the population of Montenegro**
Maja Jovanovic, Miroslub Todorovic, Vladimir R. Pavicevic
Regional Hospital “Danilo I”, Cetinje, Montenegro

**Central presbycusis examined by fMRI.**
Balogová Zuzana 1,3, Tintěra Jaroslav 2, Profant Oliver 1,3, Ibrahim Ibrahim 2, Jilek Milan 1, Syka Josef 1
1 Department of Auditory Neuroscience, Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Prague, Czech Republic
2 MR Unit, Institute of Clinical and Experimental Medicine, Prague, Czech Republic
3 Dept. of Otorhinolaryngology and Head and Neck Surgery, 1st Faculty of Medicine of Charles University, University Hospital Motol, Prague, Czech Republic

**Normal hearing thresholds in an extended frequency range as a function of age**
Milan Jilek 1, Daniel Suta1, Oliver Profant 1,2, Zuzana Balogova 1,2, Josef Syka 1
1 Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Prague
2 Department of Otorhinolaryngology and Head and Neck Surgery, 1st Faculty of Medicine, Charles University in Prague and Faculty Hospital Motol, Prague

**Intelligence level of children and schoolchildren with unilateral hearing loss**
Artur Bartosz Niedzielski, Grażyna Niedzielska, Antoni Niedzielski, Tomasz Horoch
1 Department of humanities science Medical University Lublin
2 Laboratory of Otoneurology of The Third Chair of Pediatrics Medical University Lublin
3 Department of Pediatric Otolaryngology, Audiology and Phoniatrics Medical University, Lublin

**The role of transient evoked otoacoustic emissions in detecting impulse noise-induced hearing damage and predicting vulnerability to acoustic trauma**
Blioskas S., Kyriafinis G., Markou K., Psillas G., Vital V., Tsaligopoulos M.
1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

**Characteristic of the acoustic brain response (ABR) in patients with extravasal compression of vertebral artery**
Konovalov S.
O.O. Bogomolets medical univercity, Kiev, Ukraine

**Auditory system evaluation in multiple sclerosis patients**
Slobodanka Lemajić-Komazec, Zoran Komazec, Slobodan Savović, Ljiljana Vlaški, Bojan Božić
Clinic for ear, nose and throat diseases, Medical faculty, University in Novi Sad, Serbia

**Is ASSR reliable in pedaudiological diagnostics?**
Z. Komazec, S. Lemajić-Komazec, B. Privrodski, I. Sokolovac
Clinic for ear, nose and throat diseases, Medical faculty, University in Novi Sad, SERBIA

**An extremely rare genetic disorder - audiological diagnostic challenge**
Szoby Zsolt dr., Kisely Mihály dr.
Department of Otorhinolaryngology (ENT Department), Markusovszky Hospital of the County Seat Town of Szombathely in Vas County, Hungary

**Assessment of intra- and intersubjective variability of wave V amplitude in Stacked-ABR measurement**
L. Śliwa 1, K. Kochanek 1, A. Piłka 1, G. Hatliński 2, H. Skarżyński 1
1 World Hearing Centre, Institute of Physiology and Pathology of Hearing, Warsaw, Poland
2 ENT Department of Dentistry Division of Warsaw Medical University, Poland
Development of Speech Materials for Frequency Specific Assessment of Word Recognition Capability: A New Clinical Tool for Speech Audiology
S. Gürkan1, B. Serbetçioğlu1, S. Mungan Durankaya1, G. Dalkılıç2, G. Kırkpınalı3, A.Ö. İlkız1
1-Dokuz Eylül University, Faculty of Medicine, Department of Otorhinolaryngology and Head & Neck Surgery
2-Dokuz Eylül University Faculty of Computer Engineering

Audiological test results of children with down syndrome
Bülent Serbetçioğlu, Başak Mutlu, Güney Kırkpınalı, Serpil Mungan Durankaya, Selhan Dokuz Eylül University Faculty of Medicine, Department of Otorhinolaryngology Hearing-Speech and Balance Unit izmir-Turkey

The importance of an expert pediatric audiological term in objective and subjective audiology diagnosis and follow up treatment of congenital hearing loss
De Muller, A 1 ; Gambettola, J 2 ; Torres, Y 3 ; Claveria, M.A 4 ; Lacima, J 5 ; Cardelús, S 6
1 Nurse-Audiologist. Sant Joan de Déu University Hospital. Barcelona, Spain
2,3 Audiologist/Audioprothesist. Sant Joan de Déu University Hospital. Barcelona, Spain
4,5,6 Otorhinolaryngologist. Sant Joan de Déu University Hospital. Barcelona, Spain

Non invasive electrocochleography in pediatric hearing loss diagnosis: our experience in 10 patients diagnosed of unilateral deafness
Torres, Y 1, De Muller, A 2 ; Gambettola, J 3 ; Claveria, M.A 4 ; Cardelús, S 5 ; Lacima, J 6
1 Audiologist / Audioprothesist. Sant Joan de Déu University Hospital. Barcelona, Spain
2 Nurse-Audiologist. Sant Joan de Déu University Hospital. Barcelona, Spain
3 Audiologist / Audioprothesist. Sant Joan de Déu University Hospital. Barcelona, Spain
4,5,6 Otorhinolaryngologist. Sant Joan de Déu University Hospital. Barcelona, Spain

Central auditory processing tests in children with cochlear implants
Jorge Humberto Martins1, Marisa Alves1, Raquel Ferreira1, Carlos Ribeiro1, Carlos Pereira2, António Teixeira2, António Paiva1
1 Centro Hospitalar Universitário de Coimbra
2 DETI/IEETA Universidade de Aveiro

Central auditory processing tests in children and adults with cochlear implants: What are the differences?
Jorge Humberto Martins1, Marisa Alves1, Raquel Ferreira1, Carlos Ribeiro1, Carlos Pereira2, António Teixeira2, António Paiva1
1 Centro Hospitalar Universitário de Coimbra
2 DETI/IEETA Universidade de Aveiro

Categorical perception of Sine-wave-Speech based on temporal and spectral cues
N. Horev 1,2, H. Putter-Katz 3, H. Pratt 1
1 Technion- Israel Institute of Technology, Haifa, Israel
2 Communication Sciences and Disorders, Ono Academic College, Kiryat Ono, Israel

Cognitive aspects in testing for (Central) Auditory Processing disorder
Susanne Köbler 1,2, Kristina Ingvall 1, Erik Witte 1, Claes Möller 1
1 Audiological Research Centre, University Hospital of Örebro, Sweden
2 School of Health and Medical Sciences, Örebro university, Sweden

Updates on Aetiology of Central Auditory Processing Disorder
V. Iliadou1, D-E Bamiou1
1 Medical School, Aristotle University of Thessaloniki
2 UCL, Ear Institute
Imaging in audiology: a case report of a patient with bilateral neuroma
Attila L Nagy 1,2, János Jarabin 1, Ferenc Tóth 1, László Rovó 1, József Géza Kiss 1
1 University of Szeged, Department of Oto-rhino-laryngology and Head and Neck Surgery, Szeged, Hungary
2 University of Szeged, Department of Medical Physics and Medical Informatics, Szeged, Hungary

Brain correlates of sound frequency discrimination – a simultaneous ERP-fMRI study
World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/Warsaw, Poland

Application of high-resolution fMRI for Primary Auditory Cortex mapping
World Hearing Center, Institute of Physiology and Pathology of Hearing, Kajetany/Warsaw, Poland

Unilateral congenital hearing loss: value role of computed tomography of the temporal bone
Clavería Pediatrics ENT of Materno-infantil Sant Joan De Déu, Barcelona, Spain

Ear imaging contribution in the auditory diagnosis of the infant sensorineural hearing loss: cases description
Clavería MA 1, Rebollo M 2, Lacima J 3, Coll N 4, De Muller 5, A Rodriguez Jorge 6
1-3 ENT-Consultant of Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain
2 Neuroradiologist-Consultant, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain
4-5 Phonoaudiologist Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain
6 Audiologist Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain

A comparison between the coding strategies – FS4 x FS4p - in the Med-El cochlear implant system
Dayse Távora-Vieira
School of Surgery, University of Western Australia and Medical Audiology Services, Australia

Coping strategies, self-esteem, symptoms of psychopathology and cochlear implant satisfaction in postlingually deafened adults
J. Kobosko, A. Pankowska, A. Geremek-Samsonowicz, H. Skarżyński
Institute of Physiology and Pathology of Hearing, Warsaw, Poland
Evaluation of Cochlear’s New Clinical Care Solutions in clinical practice
L. Bauer¹,2, J. Holmanová¹, D. Michejdová¹, Z. Jedličková¹, K. Voříšková¹, M. Topol¹,2, T. Tichý¹,2, S. Sedláčk¹,2
¹ Faculty Hospital in Motol, Prague, Czech Republic
² Czech Technical University in Prague, FEE, Department of Circuit Theory, Prague, Czech Republic
³ Cochlear Europe, Prague, Czech Republic

Prognostic factors for hearing outcomes after auditory brainstem implantation with a case report of an excellent performer
Varga L.¹,² Kabátova Z.¹, Steňo J.³, Pospišilová Z.¹, Profant M.¹
¹ Ist Otorhinolaryngology Clinic, Faculty of Medicine and University Hospital, Comenius University, Bratislava, Slovakia
² Institute of Experimental Endocrinology, Slovak Academy of Sciences, Bratislava, Slovakia
³ Department of Neurosurgery, Faculty of Medicine and University Hospital, Comenius University, Bratislava, Slovakia

Objective Evaluation of Cochlear Implant Speech Processors
Liebscher T., Digeser F., Hoppe U.
Department of Audiology, ENT-clinic, University of Erlangen-Nuremberg, Germany

Council Conclusions on early detection and treatment of communication disorders in children, including the use of e-Health tools and innovative solutions
Henryk Skarżyński¹, Anna Pietrowska¹, Paulina Kamyk¹, Krzysztof Kochanek¹, Piotr Skarżyński¹
¹ Institute for Physiology and Pathology of Hearing, Warsaw, Poland
² World Hearing Center, Institute of Physiology and Pathology of Hearing, Warsaw, Poland

Evulation of layout design in UNHS program in Malaysia
Sulaiman. H ¹, Suzana M ¹, Dinsuaimi S ¹, Normani.Z ², Abdullah A ², Misuhaila M ², Diana AS ², Mazwin O ³, Saravanana S ³
¹ Sciences University of Malaysia (USM)
² National University of Malaysia Medical Centre (PPUKM)
³ Sunway Medical Center (SMC)

Failure on first Oto Acoustic Emissions neonatal hearing screening among twins
Taitelbaum- Swead R ², Levit-Navat Y ¹,², Himmelfarb M ¹,²
¹ Speech and hearing Unit, Souraky medical center, Tel Aviv, Israel,
² Ariel University, Israel

Determining the effect of state anxiety levels that newborn hearing screening has on parents with newborns with risk factors
Selma Yılar, Halide Çetin Kara, Ahmet Atas
Istanbul University Cerrahpaşa Medical Faculty, Istanbul

Hearing and leisure-sound exposure in the school age children
¹ Medical University of Lodz, Department of Otolaryngology and Laryngological Oncology, Lodz, Poland
² Institute of Physiology and Pathology of Hearing, Warsaw, Poland

Evaluation of repeatability of transiently-evoked otoacoustic emissions (TEOAE) in young subjects
K. Kochanek¹, K. Puchacz², W.W. Jędrzejczak¹, S. Hatzopoulos³, A. Plika¹, L Śliwa¹
¹ World Hearing Centre, Institute of Physiology and Pathology of Hearing, Warsaw, Poland
² Logopedics and Audiology Department, Marie Curie University in Lublin, Poland
³ Department of Audiology, Ferrara University, Italy
Children with cochlear implants – long-term patronage program
Alice Sekula, Bożena Wiskirska Woźniaka, Michał Karlik, Hanna Czerniejeńska, Magdalena Kalos
Chair and Clinic for Phoniatry and Audiology, Medical University. K. Marcinkowskiego in Poznań

Paediatric Cochlear Implant: Parental Perspectives
VARÃO L.1, Santos N.2, Lavra T.3, Pinto V.4, Brazão P.5, Ferreira R.6, Monteiro L.7

The evaluation of the efficiency of cochlear implant speech processor fitting and the role of free field tonal audiometry.
M.V. Goykhburg, V.V. Bakhshinyan, G.A. Tavartkiladze
National Research Center for Audiology and Hearing Rehabilitation, Moscow, Russia

Comparison of Quality of Life and speech comprehension and recognition of cochlear implant users
Aidona S., Kyriafinis G., Triaridis S., Blioskas S., Vital V., Tsiligopoulos M.
1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

Communication in children with cochlear implants and mental retardation
Sandra Kušķe 1,2, Ilze Klatenberga 1,2, Ilze Blümentälle 2
1. Latvian Children Hearing Centre, Lielvārdes str. 68/1, Riga, Latvia
2. Faculty of Rehabilitation of Riga Stradins University

Hearing Implant Center of Sant Joan de Déu Children Hospital: Interdisciplinary and coordinated intervention with Catalonia Public Education Department
Coll N.1, Clavería M.2, Gambetolla J.3, Rodriguez Jorge J.4
1. Phonoaudiologist Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain,
2. ENT-Consultant of Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain,
3. Audiologist Otolaryngology Department, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain,
4. Head of Department of Otolaryngology, University Maternity Hospital Sant Joan de Déu, Barcelona, Spain

Comparison of word and sentence recognition of cochlear implant users between recorded and live voice in the Greek language
Kyriafinis G., Krommydas A., Geramas I., Aidona S., Vital V., Tsiligopoulos M.
1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

French “Audimot”: Development of a French version of the Four Alternative Auditory Features Test
A. Moulin1, S. Garcia2, A. Jeanvoine1, C. Richard1
1. Lyon Neurosciences Research Center; Cerebral Dynamics and Cognition Team; Otology and Auditory Cognition Group; Lyon University; 50, Av. T. Garnier, 69366 LYON cedex 07, France
2. Lyon Neurosciences Research Center; Olfactory & Memory Team; Lyon University; 50, Av. T. Garnier, 69366 LYON cedex 07, France
3. ENT Department, Hôpital Nord, CHU de Saint-Etienne, 42055 St Etienne cedex 02, France
Immunology and microbiology tests among children with otitis media with effusion
Antoni Niedzielski 1, Artur Bartosz Niedzielski 2, Grażyna Niedzielska 3
1. Department of humanities science Medical University Lublin
2. Laboratory of Otoneurology of The Third Chair of Pediatrics Medical University Lublin
3. Department of Pediatric Otolaryngology, Audiology and Phoniatrics Medical University, Lublin

Speech performance test results of implanted children
Serpil Mungan Durankaya1, Günay Kirkırmı1, Selhan Gürkan1, Enis Alpin Güneri2, Bülent Şerbetcioğlu1
1 Dokuz Eylül University Faculty of Medicine, Department of Otorhinolaryngology Hearing-Speech and Balance Unit İzmir-Turkey
2 Dokuz Eylül University, Faculty of Medicine, Department of Otorhinolaryngology İzmir-Turkey

Comparison of detection, recognition and comprehension of Cochlear Implant users in the Greek language
Geramas I.1, Kyriafinis G. 2, Tsaliipoulos M. 2, Maragoudakis P. 1, Nikolopoulos T. 1
1 2nd Academic ENT Department, Athens University, Attikon Hospital, Athens, Greece
2 1st Academic ENT Department, Aristotle University of Thessaloniki, AHEPA Hospital, Thessaloniki, Greece

Informational masking in spoken communication - Developing the Swedish “Hayling”-sentences
V. Stenbäck 1,3, M. Hälgren 3,4, B, Lyxell 2,3, B, Larsby 1,3
1 Technical Audiology/IKE, Linköping University, Sweden
2 Department of Behavioural Sciences and Learning, Linköping University, Linköping, Sweden
3 Linnaeus Centre HEAD, Linköping University, Linköping, Sweden
4 Department of Otorhinolaryngology/Section of Audiology, Linköping University Hospital, Linköping, Sweden
Saturday, June 22.

First Hall

08.30-09.30 Keynote 3
Electric-acoustic and bimodal stimulation in patients with implanted hearing devices
Uwe Baumann
Audiologische Akustik/Zentrum für HNO Heilkunde Johann Wolfgang Goethe-Universität

09.30-10.00 Coffee Break

10.00-11.30 Structured Session 5
Combined acoustic and electric hearing
Organized by: Tom Francart, Artur Lorens

Current and future commercial solutions for combined electric and acoustic hearing (10 min)
Patrick Boyle¹, Ernst von Wallenberg², Marek Polak³, Dan Gnansia⁴
¹Advanced Bionics GmbH,
²Cochlear AG,
³Med-El,
⁴Neurelec

Sound processing for combined electric and acoustic stimulation (20 min)
Tom Francart, Anneke Lenssen, Jan Wouters
ExpORL, Dept. Neurosciences, KU Leuven, Belgium

Speech understanding in spatially separated noise with bilaterally linked compression (20 min)
B.U. Seeber¹, I.M. Wiggins²
¹MRC Institute of Hearing Research, Nottingham, UK,
²Now at: Technische Universität München, Munich, Germany,
²Now at: NIHR Nottingham Hearing Biomedical Research Unit, Nottingham, UK

Wearing a hearing aid with a cochlear implant: optimising the hearing aid signal processing (20 min)
Anisa Visram, Colette M. McKay, Karolina Kluk
The University of Manchester, School of Psychological Sciences

Frequency selectivity of contralateral residual acoustic hearing in bimodal cochlear implant users: limitations on electric to acoustic pitch matching and implications for speech processing fitting (20 min)
Andrew Faulkner, Tim Green, Stuart Rosen
Speech Hearing and Phonetic Sciences, University College London, UK

12.00 Closing Ceremony
Second Hall

10.00-11.30 Free papers

Rehabilitation For Children And Adults After Cochlear Implantation - Longterm Follow-Up Programs In Europe

The changes of the comfortable loudness level in cases of interrupted use of speech processor by cochlear implant patients
Ádám Bach, Ferenc Tóth, Alice Szamosközi, József Jóri, László Rovó, József Géza Kiss
Department of Otorhinolaryngology and Head & Neck Surgery, Faculty of Medicine, University of Szeged, Szeged, Hungary

Parents attitude on functioning of deaf children after Cochlear implantation
¹Ostojic, S.*, ¹Djokovic, S., ²Mikic, B., ³Nikolic, M., ³Miric, D., ²Andric-Filipovic, S.
¹Belgrade University, FASPER, Surdology Department,
²Clinical Center of Serbia, Clinic for ENT&HNS, Audiology Rehabilitation Department

Parents evaluation of auditory performance of profoundly deaf children with Cochlear implants and hearing aids
Branka Mikic, Danica Miric, Mina Mikic-Nikolic, Maja Asanovic, Sanja Ostojic, Nenad Arsovic
Clinic for ENT&HNS, Clinical Center of Serbia, Belgrade, Serbia, FASPER, Belgrade University, Belgrade, Serbia

Effects of home rehabilitation of children participating in the national rehabilitation program for young children with hearing impairments ‘Sounds of Dreams’
D. Buchman, K. Bieńkowska
¹Orange Foundation (Poland), Warsaw,
²John Paul II Podkarpackie Province Hospital In Krosno, Society of Parents and Friends of Hearing Impaired Children In Krosno

Impact of cochlear implantation on the schooling of deaf pupils in western region of Switzerland
George Frederick Hoefflin¹, Bruno Suchaut², Chantal Tièche Christinat³
¹Cantonal School for Deaf Children (ECES)
²Unit for Research on System Piloting (URSP)
³Educational University (HEP-Vaud)

Cochlear – Implanted Recipient Observational Study (IROS) of the adolescent patients implanted with the cochlear implant in the Clinical Hospital in Poznan, Poland
Hanna Czerniejewska¹, Magdalena Kalos¹, Bozena Wiskirska – Woznica¹, Alicja Sekulal
¹Chair and Clinic for Phoniatry and Audiology, Medical University. K. Marcinkowskiego in Poznan

Long term performance with cochlear implants in elderly
T Sorrentino, MG Barezzani, S Pasini, M Situra, C Campovecchi, N Nassif, D Zanetti, LO Redaelli de Zinis
ENT Department, Spedali Civili Brescia, Italy

12.00- Closing Ceremony
Third Hall
10.00-11.30 Free papers

**Bone Conduction/ Objective Measures**

**Maximum output of an active bone conduction implant in 3 patients with a mixed hearing loss: The BONEBRIDGE™**

Drs. Griet Mertens¹,², Drs. Jolien Desmet¹,², Prof. Ad FM Snik³,⁴ and Prof. Paul Van de Heyning¹,²

¹Univ. Dept. Otorhinolaryngology, Head and Neck Surgery, Antwerp University Hospital, Belgium,
²Faculty of Medicine, Antwerp University, Belgium,
³Hearing & Implants, Department of Otorhinolaryngology, Radboud University Nijmegen,
⁴Medical Centre, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, The Netherlands

**Unilateral deafness – current treatment options.**

Andrzej Zarowski, Robby Vanspauwen, Thomas Somers, Erwin Offeciers

European Institute for ORL-HNS, AZ Sint-Augustinus, Antwerp, Belgium

**Prae- postoperative measurement of periimplant skin microcirculation with lazer-Dopler flowmetry in BAHA patients**

Zsófia Bere

**In-Ear – Bone Conduction Hearing Aid with Piezoelectric Actuators**

Maria Gadyuchko¹, Thomas Sattel¹, Martin Ptok²

¹Mechatronics Group, Department of Mechanical Engineering, Ilmenau University of Technology, Ilmenau, Germany,
²Clinic for Phoniistry and Paediatric Audiology, Hannover Medical School, Hannover, Germany

**Audiological results of middle ear implant Vibrant Soundbridge for patients with bilateral osseus aural atresia**

Eugenijus Lesinskas

Center of Otolaryngology, Vilnius University Hospital Santariskiu Clinics, Medical Faculty, Vilnius University, Lithuania

**Outcome of the clinical trial on Codacs™, a novel transcutaneous Direct Acoustic Cochlear Implant**

Ad Snik¹, Thomas Lenarz², Joost Zwartekot¹, Christof Stieger³, Burkard Schwab², Emmanuel Mylanus¹, Marco Caversaccio⁴, Martin Kompis⁵, Hamidreza Mojallal²

¹ENT department Radboud University Medical Center Nijmegen, Netherlands,
²ENT department Hannover Medical School, Hannover, Germany,
³ENT department Inselspital, University of Bern, Switserland

**On the evaluation of a new digital bone-anchored hearing device**

Arian J Bosman, Ad FM Snik, Emmanuel AM Mylanus, Myrthe KS Hol

Hearing and Implants, Department of Otorhinolaryngology Radboud University Nijmegen Medical Centre, The Netherlands

12.00 Closing Ceremony