The ACI Alliance Board of Directors at their April 2017 retreat.

**WELCOME FROM ACI ALLIANCE**

Dear Friends and Colleagues,

Welcome to spectacular San Francisco and the 15th CI symposium focusing on children. Not to be overshadowed by the wonderful venue, the scientific program organizers have put together an event sure to result in a great exchange of ideas and knowledge building.

An enormous “thank you” to the University of California San Francisco and Stanford CI teams and their leaders Charles Limb MD and Nik Blevins MD for the effort put into conceiving the format and executing content for this important meeting.

The American Cochlear Implant Alliance is a young and rapidly growing non-profit organization whose mission is to improve access to cochlear implantation through advocacy, raising awareness and promoting research. While the highlight of each year is the annual CI meeting, during the remainder of the year there are many other activities including advocacy efforts in Washington and home through our State Champions, development of on-line resource materials, presentations at regional and national primary care and consumer organizations and sponsorship of needed research in collaboration with the CI companies and also the American Hearing Research Foundation. I am grateful for the volunteer time of so many individuals and the collaborative relationship with industry. Together we are making difference.

I hope you find this meeting to be intellectually stimulating, a time to meet new colleagues and catch up with old friends. Thank you for being a part of this dynamic conference.

Sincerely,

Colin Driscoll, MD
Chair, ACI Alliance Board of Directors

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**WELCOME FROM THE UNIVERSITY OF CALIFORNIA SAN FRANCISCO AND STANFORD UNIVERSITY**

On behalf of the Organizing Committee from Stanford University and UCSF, we would like to welcome you to San Francisco for the 15th Symposium on Cochlear Implants in Children. It is a great honor for us to bring our universities together in this collaborative effort. Together with the American Cochlear Implant Alliance, we are excited to offer a diverse program that reflects the interests and backgrounds of our professional community. We are excited to have you join us as we gather with colleagues and friends from around the globe here in the San Francisco Bay Area.

This year, we are honored that Dr. Bruce Gantz will deliver the inaugural John Niparko Memorial Lecture. This lecture ship is dedicated to advancing the enduring contribution of our friend, colleague, and leader, John Niparko. We are proud to initiate this tradition to help us strive together to further his goal of improving the lives of children affected by hearing loss.

We are deeply grateful to our Scientific Program Committee Members, who worked to select the presentations at the heart of this meeting. We have endeavored to examine six broad themes related to implantable hearing technology in children. These include how we can improve music perception, technological innovation, language acquisition, hearing outcomes, new indications, and delivery of care.

We would also like to thank our Keynote Speakers, Drs. Michael Merzenich, Monita Chatterjee, Charles Della Santina, and Anne Fernald. All are preeminent leaders in their fields who continue to shape our basic understanding of hearing loss, cognition, and technology. We also gratefully acknowledge the contribution of our panelists and moderators who will be providing interactive sessions to explore the critical challenges and opportunities we currently face.

We would like to express our gratitude to our corporate sponsors for their generous support. Please join us in thanking our partners Advanced Bionics, Cochlear Corporation, and MED-EL for their support in this educational program.

Please enjoy the meeting and the many opportunities that make the San Francisco Bay Area a world-class destination.

Scientific Co-Chairs
Nikolas Blevins MD and Charles Limb MD
About the ACI Alliance

The American Cochlear Implant Alliance is a not-for-profit membership organization created with the purpose of eliminating barriers to cochlear implantation. The ACI Alliance membership spans scientists and clinicians from across the cochlear implant continuum of care including otolaryngologists, audiologists, educators, speech pathologists, psychologists, and others in cochlear implant teams. Parents of children with cochlear implants, adult recipients, and other advocates for access to care are also active members. Our initiatives include research, advocacy and awareness.

Now and going forward, ACI Alliance organizes clinical research meetings that in the past were convened by cochlear implant clinics and hospitals. Some of these conferences are collaborative ventures, such as this pediatric symposium with Stanford and UCSF, while others will be convened by the Alliance alone.
A WORD OF THANKS

ACI Alliance would like to gratefully acknowledge the following companies for supporting the CI2017 Pediatric Symposium with an Educational Grant:

Advanced Bionics
Cochlear Americas
MED-EL

Scientific Program
Organizing Committee

STANFORD UNIVERSITY
SCHOOL OF MEDICINE
Nikolas Blevins, MD, CI2017 Co-Chair
Kay Chang, MD
Alan Cheng, MD
Matthew Fitzgerald, AuD, PhD
Jan Larky, MA
John Oghalai, MD

UNIVERSITY OF
CALIFORNIA SAN FRANCISCO
Charles Limb, MD, CI2017 Co-Chair
Dylan Chan, MD
Kurt Kramer, AuD
Roseanne Krauter, MSN, FNP-BC
Anna Meyer, MD
Colleen Polite, AuD, PhD
Jeffrey Sharon, MD
Aaron Tward, MD

ABSTRACT REVIEWERS AND SESSION MODERATORS
Julie Arenberg Bierer, PhD
Christoph Arnoldner, Prof. Dr. med.
Thomas Balkany, MD
Craig Buchman, MD
Teresa Caraway, PhD, LSLS Cert. AVT
Kristin Ceh, MEd
Sujana Chandrasekhar, MD
Joseph Chen, MD
Jill Chinnici, MA
Daniel Choo, MD
Becky Clem, MA, LSLS Cert. AVT
Michael Cohen, MD
Camille Dunn, PhD
Laurie Eisenberg, PhD
Adrien Eshraghi, MD, MSc
Jill Firszt, PhD
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Donald Goldberg, PhD LSLS Cert. AVT
Alison Grimes, AuD
Debora Hatch, AuD
David Haynes, MD
Meredith Holcomb, AuD
Anil Lalwani, MD
Kenneth Lee, MD, PhD
Thomas Lenarz, Prof. Dr. med.
Nancy Mellon, MS
Stephanie Moody Antonio, MD
Susan Norton, PhD
Harold Pillsbury, III, MD
Cache Pitt, AuD
Sandra Prentiss, PhD
Kathryn Ritter, PhD, LSLS Cert. AVT
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Bridget Scott-Weich, EdD, NBC, LSLS Cert AVEd
William Shapiro, AuD
Ginger Stickney, PhD
Sarah Sydlowski, AuD, PhD
Sally Tannenbaum-Katsaggelos, MEd, CED, LSLS Cert. AVT
Holly Teagle, AuD
Fred Telischi, MD
Denise Thomas, AuD
Ellen Thomas, MA, LSLS Cert. AVT
Julie Verhoff, AuD, PhD
Susan Waltzman, PhD
Kathryn Wilson, MA, LSLS Cert. AVT
Margaret Winter, MS
Nancy Young, MD
Lindsay Zombek, MS, LSLS Cert. AVT
Teresa Zwolan, PhD
ACI Alliance Board of Directors

Colin Driscoll, MD, Board Chair
Chair, Otorhinolaryngology, Mayo Clinic (MN)

Nikolas H. Blevins, MD, Scientific Program Co-Chair, CI2017 Pediatric
Malcomson Professor Chief, Division of Otology/Neurotology
Medical Director, Cochlear Implant Center, Stanford University

Craig A. Buchman, MD
Lindburg Professor
Chair, Division of Otolaryngology
Washington University School of Medicine

Dan Choo, MD
Professor and Director, Dept. of Otolaryngology Head and Neck Surgery
Univ. of Cincinnati College of Medicine, Cincinnati Children’s Hospital Medical Center

Jill B. Firszt, PhD, Treasurer
Professor, Department of Otolaryngology, Head-Neck Surgery
Director, Cochlear Implant and Hearing Loss Research Laboratory
Washington University School of Medicine

Bruce J. Gantz, MD, CI Conferences Chair
Professor and Head, Department of Otolaryngology – Head and Neck Surgery
University of Iowa Hospitals and Clinics

David S. Haynes, MD, Membership Chair
Professor of Otolaryngology, Neurosurgery, and Hearing and Speech Sciences
Cochlear Implant Program Director
Vanderbilt University Medical Center

Meredith Holcomb, AuD
Clinical Director, Cochlear Implant Program
Clinical Assistant Professor, Department of Otolaryngology, Head and Neck Surgery
Medical University of South Carolina

Jan Larky, MA, Secretary
Director, Cochlear Implant Center, Stanford Health Care

Julian Nedzelski, MD, Scientific Program Co-Chair, CI2016 International
Professor Emeritus, Department of Otolaryngology-Head and Neck Surgery
University of Toronto / Sunnybrook Health Sciences Centre

Steven R. Rech
Partner
Vors, Sater, Seymour and Pease LLP
(Houston)

Amy McConkey Robbins, MS LSLS Cert. AVT
Speech-Language Pathologist
Communication Consulting Services (IN)

Andrew G. Shuman, MD
Assistant Professor
Department of Otolaryngology-Head & Neck Surgery
University of Michigan Health System

Holly Teagle, AuD, Board Vice Chair
Clinical Associate Professor
Co-Director, The Children’s Cochlear Implant Center at UNC
University of North Carolina

Donna L. Sorkin, MA
Ex Officio Board Member
Executive Director
ACI Alliance State Champions

The State Champion network was established in 2013 as one of the first programs implemented by the newly organized ACI Alliance as a means of harnessing the knowledge and energy of our members throughout the US, and applying this knowledge and energy to advocacy efforts. They represent the full continuum of cochlear implant clinical care and also include CI recipients and parents of children with cochlear implants. We are appreciative of their important contributions in advancing our mission.

ARKANSAS
John Dornhoff MD
Professor and Chairman, Arkansas Children’s Hospital
Jordan King AuD, Audiologist, Arkansas Children’s Hospital

CALIFORNIA
Sarah Cothulhurst MS, CI
Assistant Director, UCSF Benioff Children’s Hospital Oakland
Margaret Winter MS
Associate Professor of Clinic Otolaryngology, USC

COLORADO
David Kelsall MD, Medical Director, Rocky Mountain Ear Center, PC

CONNECTICUT
Jennine Kelley AuD
Audiologist, ENT Medical Group
Marion Radeen MS
Teacher of the Hearing Impaired, CREC SoundBridge

DISTRICT OF COLUMBIA
Michael Hoa MD
Assistant Professor, Georgetown University Medical Center
H. Jeffrey Kim MD
Professor, Georgetown University Medical Center
Meredith Ouellette MS
Director of Clinical Services, The River School

FLORIDA
Melissa Auchter AuD
Pediatric CI Audiologist, University of Miami Ear Institute
Ivette Cejas PhD, Director, The Barton G Kids Hear Now, University of Miami Ear Institute
Melissa J.W. Hall AuD
Clinical Assistant Professor, University of Florida
Annie Rodriguez AuD
Pediatric CI Audiologist, University of Miami Ear Institute

GEORGIA
Jolie Fainberg MA, CI Program Leader, Atlanta Speech School
Sarah King AuD, Director of Audiology, Augusta University

IDAHO
Lindsay Tucker AuD, Clinical Assistant Professor, Idaho State University

ILLINOIS
Denise Thomas AuD
Audiologist, Ann & Robert H. Lurie Children’s Hospital of Chicago

INDIANA
Michelle A. Barrett RN
Attorney at Law, Mother of bilaterally implanted son, Clinical Documentation Improvement Specialist, Eskenazi Health

IOWA
Camille C. Dunn PhD, Director CI Program, University of Iowa

KENTUCKY
Katie Austin AuD
Audiologist, KY Hearing Clinic
Shelley Moats AuD
Executive Director, Little Ear Hearing Center (Louisville)

LOUISIANA
Moises A. Arriaga MD
Director Otology/Neurotology, LSU School of Medicine

MAINE
Melissa Graziani AuD
Audiologist, Mercy Hospital/ENT Associates

MARYLAND
Dawn D. Marsiglia MA
Audiologist, The Listening Center at Johns Hopkins

MASSACHUSETTS
Ashleigh Lewkowitz AuD
Audiologist, Boston Children’s Hospital

THEODORE MASON MD
Otologist/Neurotologist, Baystate Medical Center
Marilyn W. Neault PhD,
Director Habilitative Audiology Program, Boston Children’s Hospital

MICHIGAN
Casey Stach AuD, Audiologist, University of Michigan

MINNESOTA
Matt Carlson MD, Medical Director, CI Program, Mayo Clinic
Amy Olund AuD, Audiologist, Mayo Clinic

MISSOURI
Craig Buchman MD, Lindburg Professor and Chair, Washington University
Kristen Lewis AuD, Director of Clinical Services, Midwest Ear Institute

NEW JERSEY
Kayley Mayer MAT, Teacher of the Deaf, Mountain Lakes Sound Start Early Intervention Program
Laura McKirdy PhD, Trustee and Co-Founder, The Lake Drive Foundation

NEW MEXICO
Seema Katiyar LaGree AuD
Executive Director, Presbyterian Ear Institute

NEW YORK
Maura Costetti MD, Director CI Center, NYEE
Katrina Stidham MD, Chief of Neurotology and Director, CI Program, Westchester Medical Center

NORTH CAROLINA
Erin L. Blackburn AuD
Director CI Program, Duke University Health Systems
Erika Gagnon AuD
Pediatric Audiologist, Children’s Cochlear Implant Center, UNC
Holly F.B. Teagle AuD
Associate Professor, Children’s Cochlear Implant Center, UNC
Debara L. Tucci MD, Professor, Duke University Medical Center

NORTH DAKOTA
Jessica L. Maxson AuD
Audiologist, Trinity Health Center West

OHIO
Lisa Houston AuD
Audiologist, UC Health
Prashant S. Malhotra MD
Director Hearing Program, Nationwide Children’s Hospital
Sarah Mowry MD, Clinical Instructor Otolaryngology, Case Western Reserve University
Ravi N. Samy MD, Director Auditory Brainstem and CI Program, UC Health

OKLAHOMA
Elizabeth Musgrave AuD
Audiologist, Hearts for Hearing

OREGON
Claire Leake MS, Speech Language Pathologist, Tucker Maxon School

PENNSYLVANIA
Carmen Hayman AuD
Coordinator CI Program, Children’s Hospital of Philadelphia

RHODE ISLAND
Richard Reed
HLAA Certified Hearing Loss Specialist and Musician

SOUTH CAROLINA
Meredith Holcomb AuD
Clinical Instructor and Clinical Director, Medical University of South Carolina
Ted A. Meyer MD, PhD
Associate Professor and Director CI Program, University of South Carolina
Jason P. Wigand AuD
Assistant Professor and Clinical Director, University of South Carolina
ACI Alliance Organizational Membership

We are grateful to the CI centers, clinics and schools that are supporting ACI Alliance and expanding access to CI care as Organizational Members. All staff at member institutions are considered part of the Organizational Membership and are part of the directory, and 10 individuals from each institution may attend the annual CI conference at the member rate. Member institutions are featured in “Find a CI Clinic” on the website. For a limited time, institutions with three or more individual professional members may convert to an organizational membership at a significant discount. Contact Susan Thomas sthomas@acialliance.org for details.
CI2017 Scholarship Awards

A Committee reviewed scholarship submissions and then selected recipients from a large group of worthy scholars. Those selected demonstrated a commitment to cochlear implant clinical care and research. It is our hope that these students will contribute importantly to our field. We were pleased that they are widely representative of the disciplines involved in cochlear implantation in children. Awardees include individuals in audiology, speech pathology, otolaryngology, nursing, psychology and neuroscience and represent universities from around the country.

Ashley Argrave, Louisiana State University Health Sciences, AuD
Molly Armstrong, Auburn University, AuD
Rachel Barr, Rush University, AuD
Jocelyn Caven, A.T. Still University, AuD
Lisa Copeland, University of North Carolina at Chapel Hill, AuD
Mishaela DiNino, University of Washington, PhD Neuroscience
Kyle Fletcher, University of Kentucky, Otolaryngology Resident
Julia Garrick, University of Cincinnati, AuD
Hannah Glick, University of Colorado, AuD and PhD in Speech and Hearing/Cognitive Neuroscience

Courtney Bartz Harrell, University of Texas at Austin, PhD Nursing Practice
Michael Hoffman, University of Miami, PhD Psychology
Kelly Jahn, University of Washington, PhD Speech and Hearing Sciences
Nicole Jiam, Johns Hopkins University, 4th Year Medical Student
Rachael Jocewicz, University of Wisconsin – Madison, AuD
Emily Ogonosky, Texas Woman’s University, MS in Speech Language Pathology
Julia (Shearer) Reid, University of North Carolina at Chapel Hill, AuD
Adam Schwalje, University of Iowa Hospitals and Clinics, Resident Otolaryngology
Katie Turek, Rush University, AuD
Kevin Wong, Boston University School of Medicine, 4th Year Medical Student

Scholarship Selection Committee

We are grateful to the Scholarship Committee for their service.

Sigrid Cerf, BA, CI recipient and advocate, McLean VA
Lisa Houston, AuD, CI Audiologist, University of Cincinnati Health
Roseanne Krauter, NP, Division of Otology, Neurotology, and Skull Base Surgery, University of California San Francisco
Denise Thomas, AuD, Clinical Coordinator, CI Program, Ann & Robert H. Lurie Children’s Hospital of Chicago
Jeffrey Sharon, MD, Director of Balance and Falls Center, Division of Otology, Neurotology, and Skull Base Surgery, University of California San Francisco
Melissa Sweeney, MS, CI Program Manager, The University of Texas at Dallas/Callier Center for Communication Disorders

Continuing Education Committee

The CI2017 Continuing Education Committee reviewed the educational process and CEU materials to ensure that we met the high standard required to maintain provider status. Grateful thanks to the individuals who served.

CHAIR:
Holly Teagle AuD, University of North Carolina Ear and Hearing Center, NC

MEMBERS:
Becky Clem MA, LSLS Cert. AVT, Cook Children’s Medical Center, TX
Ashley Garber MS, LSLS Cert. AVT, Listening and Language Connections, MI
Regina Presley AuD, CI Center, Greater Baltimore Medical Center, MD

General Conference Information

REGISTRATION LOCATION AND HOURS

Registration is located in the West Lounge, Ballroom Level at the Hilton San Francisco Union Square. Registration will be open for advance and onsite registrations, as well as any attendee issues during the following hours:

Wednesday, July 26: 10:00 AM – 7:00 PM
Thursday, July 27: 8:30 AM – 5:30 PM
Friday, July 28: 7:00 AM – 5:30 PM
Saturday, July 29: 7:00 AM – 2:00 PM

EDUCATIONAL SESSIONS AND POSTER PRESENTATIONS

All educational sessions will be held at the Hilton San Francisco. General Sessions will be held in Grand Ballroom B on the Grand Ballroom Level. Concurrent Sessions will be held in the following rooms:

Grand Ballroom B Grand Ballroom Level
Contiental 1-4 Ballroom Level
Contiental 5-6 Ballroom Level

Poster abstracts will be on display in Grand Ballroom A from Thursday, July 27 – Saturday, July 29. Join ACI Alliance Members, colleagues, and friends for refreshments during the Poster Session, Thursday, July 27 from 4:15 – 5:30 PM. Please see page 27 for the complete poster listing.

INDUSTRY SUPPORT DISPLAYS

A commercial display of scientific interest will be available during the meeting, providing attendees with an opportunity to view products and services from various corporations. We invite you to visit our exhibitors in the Yosemite Room during the following hours:

Thursday, July 27: 8:30 AM – 7:00 PM
Friday, July 28: 8:30 AM – 3:00 PM

Refreshments will be served in Yosemite Room.

SATELLITE SYMPOSIA

The following Corporate Satellite Symposia are organized separately by each individual sponsor. The commercially supported symposia are independent of the scientific program of the 15th Symposium on Cochlear Implants in Children and are not accredited for CME. CEUs (AAA, ASHA, AG Bell) are provided for all Corporate Satellite Symposia.
SATELLITE SYMPOSIA SCHEDULE

WEDNESDAY, JULY 26
12:00 – 1:30 PM  •  MED-EL Satellite Symposium: Bridges to Hearing
2:00 – 3:30 PM  •  Cochlear Americas Satellite Symposium: Performance By Design
4:00 – 5:30 PM  •  Advanced Bionics Satellite Symposium: AB/Phonak Complete Solution
All events in Grand Ballroom Salon B

THURSDAY, JULY 27
Satellite Symposium – Advanced Bionics
The Simple Way to Hear More
Grand Ballroom Salon B
7:30 AM – 8:30 AM

FRIDAY, JULY 28
Satellite Symposium – Cochlear Americas
Next From Cochlear...
Grand Ballroom Salon B
7:30 AM – 8:30 AM

SATURDAY, JULY 29
Satellite Symposium – MED-EL
Hearing For Life
Grand Ballroom Salon B
7:30 AM – 8:30 AM

CAREER FAIR
The ACI Alliance Career Fair will be held on Friday, July 28 from 5:30 – 7:00 PM in Union Square 23-24. The Career Fair is an opportunity for you to interview with organizations looking to hire staff in the cochlear implant field. No prior appointment is necessary to interview. For additional details regarding position openings, please see the Announcements bulletin board located in the Poster Hall (Grand Ballroom A).

SPEAKER READY ROOM
Please note that a networked presentation management system is being used for this meeting, so it is essential that all presentations are received in the Speaker Ready Room no later than 4 hours prior to the presentation. Speakers who have already submitted presentations via the advance submission website are advised to please verify the integrity of their presentations in the Speaker Ready Room. It is imperative that presentations created on a Macintosh or that contain video be reviewed. The Speaker Ready Room is also available for editing previously submitted presentations. The Speaker Ready Room is located in the Green Room on the Grand Ballroom Level of the Hilton San Francisco.

HOURS OF OPERATION:
Wednesday, July 26: 11:00 AM – 7:00 PM
Thursday, July 27: 6:30 AM – 5:30 PM
Friday, July 28: 7:00 AM – 5:30 PM
Saturday, July 29: 7:00 AM – 2:00 PM

MEALS
All meals/breaks included with your registration fee will be served in the exhibit hall. Additional seating is available in the Imperial and Franciscan Ballrooms.

Breakfast: A continental breakfast will be provided during the Sponsor Symposium on Thursday, Friday and Saturday mornings from 7:30 AM – 8:30 AM in Grand Ballroom B. Breakfast will be served beginning at 7:00 AM. You must pre-register with the Corporate Sponsor in order to attend. If you choose not to attend a Sponsor Symposium, breakfast will be on your own.

Lunch: Boxed lunches will be provided in the Exhibit Hall from 11:55 AM - 12:55 PM on Thursday and 12:15 – 1:15 PM on Friday. Lunch will not be provided on Saturday – please see the Dining Options in the back of this program book for a list of nearby options.

Dinner: On your own. A list of local restaurants has been provided in the back of this program book on page 39. The hotel concierge will also be able to recommend dining options. We will offer a light reception in the Poster Hall on Thursday from 5:30 PM - 7:00 PM.

IDENTIFICATION
Attendees should obtain their conference badge at the registration desk at the time of check-in. Please wear your conference badge at all times during the meeting as it will be required for admittance into conference functions. Please note that the Welcome Reception on Thursday, July 27 is a ticketed function and only open to registered attendees and guests.

STUDENT REGISTRATION
Students should provide a copy of a valid Student ID or verification letter. Fellows-in-Training and Residents should obtain a letter from their program director or chair verifying their educational status. Verification materials must be received by Registration Services before registration can be approved.

CERTIFICATES OF ATTENDANCE
Certificates of Attendance are available at the Continuing Education desk.

CELL PHONES AND TAPING
As a courtesy to your colleagues, please silence cell phones while in the scientific sessions.
No audio or videotaping is permitted in the scientific sessions, instructional courses, or exhibit areas.

ANNOUNCEMENTS
We are pleased to offer attendees the opportunity to post announcements on the designated poster board located in the Poster Hall (Grand Ballroom A).

Audience Response – Poll Everywhere
Various Panel Sessions and Industry Satellite Symposia will utilize Audience Response technology to conduct interactive polling. You may access the Poll Everywhere system through a variety of methods.
Poll Everywhere Access Options:
1. Mobile App: Download the CI2017 Mobile App. Sessions utilizing polling technology will include a link on that particular Session page within the app. Click the link to join the session and participate.
2. Web: Access the poll at “PollEv.com/aci2017” on any web browser or in the Poll Everywhere Mobile App to join the session and participate.
3. SMS Text: Text “ACI2017” to “22333” join the session and participate. Standard messaging rates apply. This phone number is for the US only; attendees with International cellular carriers should use the App or Web option to participate.

LOST AND FOUND
Lost and found is located at the Registration Desk. After the meeting, any unclaimed items will be turned in to hotel security.

EMERGENCY INFORMATION
In case of an emergency, please locate a house phone and dial 6200 to be directly connected to security or dial 444 to reach 911. If the hotel receives an emergency phone call for an attendee or exhibitor, the hotel will direct the call to the attendee’s guest room. If the attendee is not located in his or her guest room, the hotel will contact the headquarters office, and a message will be posted on the message board. The hotel will also inform the Hotel contact and ACS Conference Management.

Follow @acialliance on Twitter for updates and information about #CI2017SF.
BUSINESS CENTER
The Business Center is located on the lobby level of the hotel.

SHIPPING AND PACKAGES
All shipments received and shipped by the hotel will incur a standard per-piece handling charge based on weight.

HOURS OF OPERATION:
Weekdays: 6:30 AM – 7:00 PM
Weekends: 9:00 AM – 5:00 PM
The self-service print area is accessible 24x7.
Contact: In-house extension: 6135
Direct Number: (415) 359-0235

CONFERENCE MANAGEMENT

CONFERENCE PROCEEDINGS
Special thanks to Otology & Neurotology for the journal's important contribution to the 15th Symposium on Cochlear Implants in Children. Otology & Neurotology will publish conference proceedings in electronic (open access) format.

COMMUNICATION ACCESS
The entire conference will be accessible for individuals with hearing loss. Every session will offer real-time captioning by experienced CART reporters who have worked with our CI conference in the past. In addition to live captioning in the meeting rooms, you may also access full screen captioning via the CapApp! To access CapApp, download the CI2017 Mobile App to your device and select the session you are attending. Click the ‘CapApp’ button within that session, and you will see the full running captioning on your device.

SPANISH LANGUAGE CAPTIONING TRANSLATION
When using the CapApp, you may also select ‘Spanish’ from the options menu to receive a Spanish language streaming translation of the captioned content. See “Communication Access” for instructions on accessing the CapApp.

DISCLAIMER
Attendees voluntarily assume all risks involved in travel to and from CI2017 and in attendance of and participation in the program. ACI Alliance and ACS Association Management Services shall not be liable for any loss, injury, or damage to person or property resulting directly or indirectly from any acts of God, acts of government or other authorities, civil disturbances, acts of terrorism, riots, thefts, or from any other similar causes.

CONTINUING EDUCATION INFORMATION
If you wish to receive Continuing Education credits for CI2017 educational sessions, please visit the Continuing Education Desk located in the Registration Area on the Ballroom Level. The Continuing Education Desk will be open during Registration Hours (see page 8).

Conference staff will provide you with the necessary paperwork for you to complete to obtain continuing education credits. Please return your completed forms at the end of the conference. Credits will not be processed without completed paperwork. To obtain credit for sessions attended, record the CE Code that is presented at the end of each session.

A Certificate of Attendance or CME Certificate will be emailed to you by September 15, 2017. Your certificate will confirm your CE Credits for the professional association(s) that you indicated, if allowed by said organization. Please note that each association's guidelines for acceptance of conference credit hours may differ, and you should consult the appropriate professional association for CE verification. If you have any questions, please contact Susan Thomas at stthomas@acialliance.org.

CONSENT TO USE OF IMAGES
Please note that attending, or participating in, any CI2017 Pediatric Symposium activity constitutes as consent to use and distribute any photographs or video taken by or on behalf of ACI Alliance for informational, publicity, promotional, website and/or reporting purposes in print digital or other format without notice of compensation.

CONFERENCE PROCEEDINGS
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SPANISH LANGUAGE CAPTIONING TRANSLATION
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Continuing Education

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

ACCREDITATION
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American College of Surgeons and the American Cochlear Implant Alliance. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA CATEGORY 1 CREDITS™
The American College of Surgeons designates this live activity for a maximum of 14.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURE INFORMATION:
In compliance with ACCME Accreditation Criteria, the American College of Surgeons, as the accredited provider of this activity, must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias-free presentation. Please see the insert to this program for the complete disclosure list.

Conference Learning Objectives
At the end of this activity, participants will be able to:

• Identify candidates for implantation in the presence of single-sided deafness;
• Discuss the range of outcomes that may be achieved by implanted children with cochlear implants who are multiply involved;
• Evaluate the role and limitations of Auditory Brainstem Implantation (ABI) in children;
• Explain how music perception and enjoyment can be achieved following Cochlear Implantation;
• Describe the impact of the home environment on language and the brain in children with cochlear implants;
• Discuss the pros and cons of remote cochlear implant programming in the adolescent population;
• Identify potential barriers that hinder widespread use of remote programming for pediatric cochlear-implant recipients;
• Discuss typical shortcomings of Medicaid coverage for pediatric cochlear implantation; and
• Describe the rates of hearing preservation in children receiving cochlear implants and the benefits of improved speech.

Conference Description
This symposium will provide an educational environment which fosters the dissemination of high-quality science applicable to all fields of professionals in attendance. This symposium will provide attendees with opportunities to explore current topics that have the greatest impact on improving outcomes for children with cochlear implants, including:

• Role of the peripheral and central auditory system on music appreciation and opportunities to improve access to music
• Improved integration between CI and other related biotechnology
• Role of early and targeted intervention on language development
• Review of objective metrics for success in CI recipients
• Indications for implantation in the presence of single-sided deafness
• Discussion of innovative methods to optimize access to care, in an efficient and cost-effective manner

CONTINUING EDUCATION CREDITS FOR AAA MEMBERS
ACI Alliance is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 2.15 CEUs/1.35 Tier 1 CEUs. Academy approval of this continuing education activity does not imply endorsement of course content, specific products, or clinical procedures. Any views that are presented are those of the presenter/CE Provider and not necessarily of the American Academy of Audiology. Participants seeking AAA continuing education credits are required to submit their membership number at the time of registration.

Individuals seeking Tier 1 CE hours must attend at least 2 of the 3 Wednesday afternoon Industry Satellite Symposia per ABA rules stating continuing education activities must be a minimum duration of 3 hours.

CONTINUING EDUCATION CREDITS FOR ASHA MEMBERS
This course is offered for up to 2.15 ASHA CEUs (Advanced Level, Professional Area). Participants seeking ASHA continuing education credits are required to submit their ASHA Account number at the time of registration.

CONTINUING EDUCATION CREDITS FOR AG BELL
This program has been approved by the AG Bell Academy of Listening and Spoken Language to offer up to 21.5 LSLS CEUs. Please complete your Academy CEU Request Form and bring it to the CE desk to be signed prior to leaving the conference. Participants seeking AG Bell Academy LSLS credits are required to submit their LSLS identification number at the time of registration.
The UCSF Department of Otolaryngology-Head and Neck Surgery has been an international leader in the development and application of electrical stimulation of the auditory system to restore hearing for over 35 years. Each year, the Douglas Grant Cochlear Implant Center evaluates and treats hundreds of adults and children who fail to receive much benefit from hearing aids. With the recent addition of the remarkable Children's Hospital of Oakland to the UCSF hospital system, our combined cochlear implant program is dedicated to providing the most advanced technology, best care, and full range of service to our adult and pediatric patients, including evaluation, counseling, surgery, programming, testing, rehabilitation, and research.
Our pediatric cochlear implant program includes partnership with the Weingarten Children’s Center, a national leader in early education for children with hearing loss. Together, we have established the BabyTalk Teletherapy Program (babytalk.stanford.edu) to offer families throughout California comprehensive innovative services, including consultation with experienced professionals, and customized therapy sessions delivered to participants’ homes. Stanford has also partnered with the Baker Institute (bakerinstituteforchildren.org) to provide ongoing educational programs, such as the Listen to Me conference, and supplemental rehabilitation services to optimize cochlear implant outcomes for children in need.

Famous for breakthroughs resulting from interdisciplinary efforts, Stanford University has a proud history in the development of hearing technology, including the development and first clinical use of a multichannel cochlear implant in 1964. We are now once again poised to advance the understanding and treatment of hearing deficits through the Stanford Initiative to Cure Hearing Loss (hearinglosscure.stanford.edu). This multispecialty effort is focused on the restoration of the fundamental mechanisms essential for sound perception and understanding, using advances in genetics, pharmacotherapy, devices, and stem cell treatment. Our team includes preeminent investigators in related basic science and translational research, and works in concert with other faculty throughout the Stanford School of Medicine and University.
Opening Ceremonies & John Niparko Memorial Lecture

Date and Time: Thursday, July 27 / 8:40 – 10:10 AM
Location: Grand Ballroom B

WELCOME FROM THE UNIVERSITY OF CALIFORNIA SAN FRANCISCO AND STANFORD UNIVERSITY:
Charles Limb, MD, Scientific Co-Chair
Nikolas Blevins, MD, Scientific Co-Chair

WELCOME FROM ACI ALLIANCE:
Colin Driscoll, MD, Chair, ACI Alliance Board of Directors

MUSICAL PERFORMANCE:
“Song to the Moon” from Rusalka by Antonín Dvořák
Performed by Indre Viskontas, soprano and Karen Chan Barrett, piano

JOHN NIPARKO MEMORIAL LECTURE:
To recognize Dr. John K. Niparko’s enduring commitment to cochlear implant research and clinical care and honor his significant contributions to the field, ACI Alliance established a lectureship to be given at the annual CI Symposium by a distinguished scientist or clinician.

INTRODUCTION:
Colin Driscoll, MD

REMEMBERING JOHN NIPARKO:
Howard Francis, MD, MBA
Margaret Winter, MS
Donna Sorkin, MA
Kevin Niparko

JOHN NIPARKO LECTURE: WHEN SHOULD WE ATTEMPT TO PRESERVE RESIDUAL ACOUSTIC HEARING IN CHILDREN?
Bruce Gantz, MD
Professor and Head, Dept of Otolaryngology-Head and Neck Surgery
University of Iowa

Dr. Gantz will discuss how hearing preservation has become a standard of care for CI in adults, but there are only a few studies using these strategies in children. His presentation will review initial experiences with hearing preservation in older children which have been quite promising, especially for those with severe to profound high frequency hearing loss that struggle to use the telephone.

ACI Alliance recognizes and thanks the following individuals for their generous support of the lecturship:

Patron ($2000+)
Lilly Endowment, Inc.

Leader ($250-$500)
Catherine Birman
Brian Dunham
Amy McConkey Robbins and N. Clay Robbins
Donna Sorkin and Greg Barry
Holly Teagle

Partner ($100-$249)
Camille Dunn
Ann Geers
Ginger Grant
Kenneth Lee
Alexandra Quittner
Kathryn Ritter
Christina Runge
Charles Yates

Friend (up to $99)
Jane Opie
Lisa Park
ACI Alliance Member Meeting Agenda

OUR MISSION: ADVANCING ACCESS TO COCHLEAR IMPLANTATION

Date and Time: Friday, July 28 / 8:40-9:30 AM
Location: Grand Ballroom B
Open to All Conference Attendees

MODERATOR: COLIN DRISCOLL MD, CHAIR OF ACI ALLIANCE

• Welcome
• Introduction of Board Members

CAMILLE DUNN PHD, NOMINATIONS CHAIR

• Nominations Committee: Camille Dunn, Craig Buchman, Colin Driscoll, Meredith Holcomb, Stephanie Moody Antonio, Bridget Scott-Weich
• Vote on Board of Directors (Voting by Members Only)
• Recognition of Board Members who have completed their service: Craig Buchman, Bruce Gantz

The Membership will be asked to vote on the election of three individuals as new board members for a term of 2017-2019:

NEW BOARD MEMBERS
Oliver Adunka MD • 2017-2019 Term
John Dornhoffer MD • 2017-2019 Term
Sally Tannenbaum-Katsaggelos M.Ed, CED, LSLS, Cert. AVT • 2017-2019 Term

RETURNING BOARD MEMBERS
Nikolas Blevins, Daniel Choo, Colin Driscoll, Jill Firszt, David Haynes, Meredith Holcomb, Jan Larky, Amy McConkey-Robbins, Steven Rech, Andrew Shuman, Holly Teagle

DONNA SORKIN MA, EXECUTIVE DIRECTOR OF ACI ALLIANCE

• Celebrating Our Accomplishments
• Advocacy to Advance Access to Cochlear Implants:

STATE CHAMPIONS ADVOCACY PANEL

• Debora Hatch AuD, EVMS Hearing and Balance Center, VA
• Dawn Marsiglia AuD, Johns Hopkins, MD
• Susan Norris PhD, Seattle Children’s Hospital, WA
• Marion Radeen MS, CREC Soundbridge, CT
• Prashant Malhotra MD, Nationwide Children’s Hospital, OH

COLIN DRISCOLL MD, ACI ALLIANCE CONFERENCES

• Recognition of CI2017 Program Chairs Nikolas Blevins MD and Charles Limb MD
• CI2018 Emerging Issues in Cochlear Implantation, Washington, DC / March 7-10, 2018
• CI2019 Pediatric, Introduction of University of Miami Program Chairs Fred Telischi MD and Ivette Cejas PhD

CLOSING

Scan the QR code to review a listing of ACI Alliance 2016 Accomplishments!
KEYNOTE LECTURE: FIRST-IN-HUMAN TRIAL OF THE LABYRINTH DEVICES MVI™ MULTICHANNEL VESTIBULAR IMPLANT SYSTEM– EARLY RESULTS

CHARLES C. DELLA SANTINA, PHD MD
Professor of Otolaryngology – Head & Neck Surgery and Biomedical Engineering
Johns Hopkins Medicine

Dr. Della Santina will describe early results from the first-in-human trial of the Labyrinth Devices MVI™ Multichannel Vestibular Implant, which is unique in that it represents the first attempt to chronically and continuously restore vestibular sensation through prosthetic electrical stimulation in human patients.

KEYNOTE LECTURE: BRAIN PLASTICITY AND COCHLEAR IMPLANTS

MICHAEL MERZENICH, PHD
Professor Emeritus, UCSF School of Medicine, Department of Otolaryngology

Dr. Merzenich will discuss how to deploy brain plasticity-based strategies to optimize cochlear implant use, and to assure effective brain-health restoration and management. Cochlear implants provide a particularly powerful form of input for driving changes in cortical circuits, and for restoring organic brain health.

KEYNOTE LECTURE: THE MUSIC WITHIN SPEECH: VOICE EMOTION AND COCHLEAR IMPLANTS

MONITA CHATTERJEE, PHD
Director, Auditory Prostheses & Perception Laboratory
Boys Town National Research Hospital, Omaha, NE

Dr. Chatterjee will summarize the current limitations of Cochlear implants (CIs) in transmitting salient voice pitch cues to the listener. She will summarize her work on the impact of these deficits on the perception and production of emotional prosody by children and adults with CIs.
KEYNOTE LECTURE: THE GROWTH OF LANGUAGE UNDERSTANDING IN THE FIRST 3 YEARS IS CRITICAL: HOW TO SUPPORT IT AND HOW TO MEASURE IT

ANNE FERNALD, PHD
Associate Professor, Josephine Knotts Knowles Professor in Human Biology
Stanford University

Dr. Fernald will present her research in infant-directed speech and development, and the impact on the field of cochlear implants in pediatric patients.

INVITED PRESENTATION: MAXIMIZING EARLY COCHLEAR IMPLANT BENEFITS USING SPOKEN LANGUAGE

ANDREA WARNER-CZYZ, PHD
Assistant Professor in Communication Disorders
University of Texas at Dallas

Dr. Warner-Czyz will present “Maximizing Early Cochlear Implant Benefits Using Spoken Language.” Dr. Warner-Czyz was one of the authors of a related study on early sign and CI recently published in *Pediatrics*.

TECH PANEL: COCHLEAR IMPLANTS AND TECHNOLOGY - HOW DO WE BRIDGE THE GAP?

MODERATOR: VINTON G. CERF, PHD
Chief Internet Evangelist
Google

Dr. Vint Cerf (Google) will lead a free-wheeling discussion with others from Bay Area technology companies on how to push the field of cochlear implants forward beyond its current plateau. This tech panel will also explore how to increase interactions and meaningful linkages between CI technology and technology that exists in our phones, pads, and computers. Panelists include Poppy Crum, PhD (Dolby); John Hernandez, PhD (Verily); Mike Marzalek (engineer and a CI User); and Nate Niparko (Accel).
CI2018 Emerging Issues in Cochlear Implantation

SAVE THE DATE
MARCH 7-10, 2018
WASHINGTON, DC

The CI2018 Emerging Issues Symposium is a forum for hearing health clinicians, scientists, students and governmental officials to come together to share research and best clinical practices relating to cochlear implants and other implantable auditory devices. The Symposium will feature 2½ days of clinical research presentations. This popular format combines invited speakers and panels on key emerging issues as well as submitted podium and poster presentations.

On Wednesday, prior to the official meeting start, we welcome our members to participate in ACI Alliance on the Hill. This is an opportunity to share our perspectives on cochlear implant care and access with both Members of Congress and appointed officials.

Emerging Issues to be explored:
1. Parental Role in Pediatric CI Outcomes
2. Testing Protocols for Cochlear Implant Candidacy
3. Practice Management
4. Quality of Life Outcomes Associated with Cochlear Implantation

ABSTRACT SUBMISSIONS FOR PODIUM AND POSTER RESEARCH PRESENTATIONS WILL OPEN IN LATE AUGUST, 2017.

DOWNLOAD THE CI2017 MOBILE APP!

Navigate the event like a pro with the CI2017 mobile app, powered by core-apps.com

With the CI2017 mobile app, you can:
- Stay organized with up-to-the-minute Exhibitor, Speaker, and Event information
- Sync the app across all of your devices with Multi-Device Sync
- Receive important real-time communications from the ACI Alliance
- Access the CapApp to view real time captioned content for any scientific session or translate the captioned content into Spanish
- Build a personalized schedule and bookmark exhibitors
- Take notes and download event handouts and presentations
- Locate sessions and exhibitors on the Hilton SF Union Square maps
- Find attendees and connect with your colleagues through Friends
- Stay in-the-know and join in on social media with #CI2017SF
- Share your event photos and experiences with the Photo Gallery
- And much, much more!

DOWNLOADING THE APP IS EASY!

SEARCH the App Store or Google Play for “ACI 2017” or SCAN the QR code at left

For All Other Device Types (including BlackBerry, Windows, and all other web browser-enabled devices): While on your smartphone, point your mobile browser to m.core-apps.com/ci2017peds to be directed to the proper download version for your device.

Platform Compatibility: Android v4x+ and iOS v7x+ • Should you have any questions, please contact support@core-apps.com
## Conference Schedule

### WEDNESDAY, JULY 26, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>CODE</th>
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<th>PRESENTER</th>
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<tbody>
<tr>
<td>12:00 PM - 1:30 PM</td>
<td>IND01</td>
<td>Industry Satellite Symposium</td>
<td></td>
<td>Grand Ballroom B</td>
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<tr>
<td>2:00 PM - 3:30 PM</td>
<td>IND02</td>
<td>Industry Satellite Symposium</td>
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<td>Grand Ballroom B</td>
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<tr>
<td>4:00 PM - 5:30 PM</td>
<td>IND03</td>
<td>Industry Satellite Symposium</td>
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<td>Grand Ballroom B</td>
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### THURSDAY, JULY 27, 2017

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<tr>
<td>7:30 AM - 8:30 AM</td>
<td>IND04</td>
<td>Industry Satellite Symposium</td>
<td></td>
<td>Grand Ballroom B</td>
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<tr>
<td>8:40 AM - 9:10 AM</td>
<td>OPEN01</td>
<td>Opening Ceremonies</td>
<td></td>
<td>Grand Ballroom B</td>
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<tr>
<td>9:10 AM - 10:10 AM</td>
<td>KEY01</td>
<td>Keynote: John Niparko Memorial Lecture: When Should We Attempt to Preserve Residual Acoustic Hearing in Children?</td>
<td>Bruce Gantz, MD</td>
<td>Grand Ballroom B</td>
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<tr>
<td>10:10 AM - 10:40 AM</td>
<td>COF01</td>
<td>Coffee Break with Exhibitors</td>
<td></td>
<td>Yosemite Room</td>
</tr>
<tr>
<td>10:40 AM - 11:55 AM</td>
<td>S1-1</td>
<td>Music Panel: Can We Improve Pitch Perception in CI Users?</td>
<td>Moderator: Kate Gfeller, PhD</td>
<td>Continental 1-4</td>
</tr>
<tr>
<td>10:40 AM - 11:55 AM</td>
<td>S1-2</td>
<td>Surgical Techniques</td>
<td></td>
<td>Continental 5-6</td>
</tr>
<tr>
<td>10:40 AM - 10:49 AM</td>
<td>S1-2</td>
<td>&quot;Silent&quot; Electrode Insertion: Developing a Time-Based Guideline from Intracochlear Pressure Measurements</td>
<td>Renee Banakis Hartl, MD, AuD</td>
<td></td>
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<tr>
<td>10:49 AM - 10:58 AM</td>
<td>S1-2</td>
<td>Effects of Steroid Application with a Cochlear Catheter on Impedances and Electrically Evoked Compound Action Potentials after Cochlear Implantation</td>
<td>Lutz Gaertner, PhD</td>
<td></td>
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<tr>
<td>10:58 AM - 11:07 AM</td>
<td>S1-2</td>
<td>Real Time Intraoperative Monitoring Using the Cochlear Implant Electrode for Hearing Preservation</td>
<td>Aanand Acharya, MA (Cantab), MBBS, FRCS, FRACS</td>
<td></td>
</tr>
<tr>
<td>11:07 AM - 11:16 AM</td>
<td>S1-2</td>
<td>Reducing Trauma and Optimizing Intracochlear Position with a Shape Memory Polymer Cochlear Implant Array</td>
<td>Kenneth Lee, MD, PhD</td>
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<tr>
<td>11:16 AM - 11:25 AM</td>
<td>S1-2</td>
<td>Can Intracochlear Electrocochleography be Used to Estimate Residual Acoustic Hearing Following Cochlear Implantation?</td>
<td>Jourdan Holder, AuD</td>
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<tr>
<td>11:25 AM - 11:34 AM</td>
<td>S1-2</td>
<td>Use of an Integrated System to Measure Electrical Stapedial Reflexes in Children with Cochlear Implants</td>
<td>Lizette Carranco Hernandez, MD</td>
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<tr>
<td>11:34 AM - 11:42 AM</td>
<td>S1-2</td>
<td>Intra-operative Trauma Detection with Help of Electrocochleography and Fluoroscopy Video</td>
<td>Ralf Greisiger, PhD</td>
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<tr>
<td>11:42 AM - 11:55 AM</td>
<td>S1-2</td>
<td>Q&amp;A</td>
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<tr>
<td>10:40 AM - 11:55 AM</td>
<td>S1-3</td>
<td>Predicting and Improving Outcomes</td>
<td>Moderators: Teresa Caraway, PhD, LSLS Cert. AVT; Nancy Young, MD</td>
<td>Grand Ballroom B</td>
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<tr>
<td>10:40 AM - 10:49 AM</td>
<td>S1-3</td>
<td>Long-term Results of Auditory Abilities after Cochlear Implantation in Subjects with Unilateral Deafness</td>
<td>Rolf Battmer, PhD</td>
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<tr>
<td>10:49 AM - 10:58 AM</td>
<td>S1-3</td>
<td>Predicting Outcomes of Children with Cochlear Implants - Findings from the LOCHI Study</td>
<td>Teresa Ching, PhD</td>
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<tr>
<td>10:58 AM - 11:07 AM</td>
<td>S1-3</td>
<td>Development Trajectories of Speech Production between 4 and 8 Years Post-implant</td>
<td>Andrea Warner-Czyz, PhD</td>
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<tr>
<td>11:07 AM - 11:16 AM</td>
<td>S1-3</td>
<td>Factors Affecting Development of Babble in Prelingually Deaf Children Who Use Cochlear Implants</td>
<td>Liz Hamilton, SLP</td>
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<td>11:16 AM - 11:25 AM</td>
<td></td>
<td>Category Indicators for Monitoring Long-term Communication Outcomes in a Large Cohort of Children Using Cochlear Implants</td>
<td>Jaime Leigh, PhD</td>
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<tr>
<td>11:25 AM - 11:34 AM</td>
<td></td>
<td>Attention to Speech in Deaf Infants with Cochlear Implants</td>
<td>Yuanyuan Wang, PhD</td>
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<tr>
<td>11:34 AM - 11:42 AM</td>
<td></td>
<td>A Longterm Study of CI Operations in Infants</td>
<td>Eva Karltorp, MD, PhD</td>
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<tr>
<td>11:42 AM - 11:55 AM</td>
<td></td>
<td>Q&amp;A</td>
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<tr>
<td>11:55 AM - 12:55 PM</td>
<td></td>
<td>Lunch with Exhibitors</td>
<td></td>
<td>Yosemite Room</td>
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<tr>
<td>12:55 PM - 2:10 PM</td>
<td>S2-1</td>
<td>Music Perception</td>
<td></td>
<td>Continental 1-4</td>
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<tr>
<td>12:55 PM - 1:04 PM</td>
<td></td>
<td>Music Processing Reveals Double Dissociation Effects between Discrimination, Association and Appreciation: Evidence from Adult Pre- and Postlingual CI Users</td>
<td>Niki Vavatzanidis, MSc</td>
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<tr>
<td>1:04 PM - 1:13 PM</td>
<td></td>
<td>Beyond Technology: The Interaction of Perceptual Accuracy and Experiential Factors in Pediatric Music Engagement</td>
<td>Kate Gfeller, PhD</td>
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<tr>
<td>1:13 PM - 1:22 PM</td>
<td></td>
<td>A Follow-up Study on Music Timbre and Lexical Tone Perception in Adult Mandarin-Speaking Cochlear Implant Users</td>
<td>Bo Liu, Masters</td>
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<tr>
<td>1:22 PM - 1:31 PM</td>
<td></td>
<td>Links Between Audio Features, Aspects of Music, and Happy/ Sad Emotions Expressed by Music in Cochlear Implant Users and Normally Hearing Adults</td>
<td>Georgios Papadelis, Assoc. Prof.</td>
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<tr>
<td>1:31 PM - 1:40 PM</td>
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<td>Hybrid Music Perception Outcomes: Implications for Melody and Timbre Recognition in Cochlear Implant Users</td>
<td>Jay Rubinstein, MD, PhD</td>
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<tr>
<td>1:40 PM - 1:49 PM</td>
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<td>Wrap it in Rap - Music Making with Adolescent CI Users</td>
<td>Bjorn Petersen, PhD</td>
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<td>1:49 PM - 1:58 PM</td>
<td></td>
<td>Stability and Predictors of Music Perception and Engagement Over Time in Pediatric Cochlear Implantees</td>
<td>Adam Schwalje, MD, DMA</td>
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<tr>
<td>1:58 PM - 2:10 PM</td>
<td></td>
<td>Q&amp;A</td>
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<td>2:10 PM - 2:40 PM</td>
<td></td>
<td>Coffee Break with Exhibitors</td>
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<td>Yosemite Room</td>
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<tr>
<td>2:40 PM - 3:35 PM</td>
<td>S3-1</td>
<td>Outcome Assessment</td>
<td></td>
<td>Grand Ballroom B</td>
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<tr>
<td>2:40 PM - 2:49 PM</td>
<td></td>
<td>Outcomes with a New Perimodiolar Cochlear Implant Electrode</td>
<td>J. Thomas Roland, MD</td>
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<tr>
<td>2:49 PM - 2:58 PM</td>
<td></td>
<td>Incorporating Ceiling Effect in Analyses of Speech Perception Outcomes of a Pediatric Cochlear Implant Cohort</td>
<td>Vedat Topsakal, MD, PhD</td>
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<tr>
<td>2:58 PM - 3:07 PM</td>
<td></td>
<td>The Effect of Development on Cortical Auditory Evoked Potentials in Normal Hearing Listeners and Cochlear Implant Users</td>
<td>Eun Kyung Jeon, PhD, AuD</td>
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<tr>
<td>3:07 PM - 3:16 PM</td>
<td></td>
<td>EEG Alpha Rhythms as a Biomarker for Listening Effort for Speech in Noise Perception in Cochlear Implant Users</td>
<td>Andrew Dimitrijevic, PhD</td>
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<tr>
<td>3:16 PM - 3:25 PM</td>
<td></td>
<td>Programming Characteristics of Cochlear Implants in Young Children- Findings from a Population-based Prospective Study</td>
<td>Teresa Ching, PhD</td>
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<td>3:25 PM - 3:35 PM</td>
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<td>Q&amp;A</td>
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<tr>
<td>2:40 PM - 3:35 PM</td>
<td>S3-2</td>
<td><strong>Expanded Indications</strong></td>
<td>Moderators: William Shapiro, AuD; Susan Norton, PhD</td>
<td>Continental 5-6</td>
</tr>
<tr>
<td>2:40 PM - 2:49 PM</td>
<td></td>
<td>Outcomes of Pediatric Cochlear Implantation in Single-Sided Deafness or very Asymmetrical Hearing Loss</td>
<td>Jaime Leigh, PhD</td>
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<tr>
<td>2:49 PM - 2:58 PM</td>
<td></td>
<td>Expanding Indications for Cochlear Implantation: Single-Sided Deafness</td>
<td>Harold Pillsbury, MD</td>
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<tr>
<td>2:58 PM - 3:07 PM</td>
<td></td>
<td>Indications and Outcomes of Cochlear Implant Revision Surgery for Legacy Internal Devices</td>
<td>Meredith Holcomb, AuD</td>
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<tr>
<td>3:07 PM - 3:16 PM</td>
<td></td>
<td>Hearing Preservation and Speech Outcomes in Pediatric Recipients of Cochlear Implants</td>
<td>Kevin Brown, MD, PhD</td>
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<td>3:16 PM - 3:25 PM</td>
<td></td>
<td>Partial Insertion of Long Flexible Electrodes in Children with High Frequency Hearing Loss</td>
<td>Thomas Lenarz, MD, PhD</td>
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<td>3:25 PM - 3:35 PM</td>
<td></td>
<td>Q&amp;A</td>
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<tr>
<td>2:40 PM - 3:35 PM</td>
<td>S3-3</td>
<td><strong>Outcomes Panel: Neurocognitive Factors in Hearing Restoration in Deaf Children</strong></td>
<td>Moderators: Andrea Warner-Czyz, PhD</td>
<td>Continental 1-4</td>
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<tr>
<td>3:35 PM - 4:15 PM</td>
<td></td>
<td><strong>Poster Highlights</strong></td>
<td>Grand Ballroom B</td>
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<td>Estimation of Residual Hearing Using Electrocochleography in Children with Cochlear Implants</td>
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<td>Improving Device Use and Exposure to Different Listening Environments: Use of Datalogging in Pediatric Advanced Bionics Recipients</td>
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<td>Perception of Interaural Time Differences with Cochlear Implants with a Focus on the Ongoing Fine Structure</td>
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<td>Critical Review of Supranaantal Approach for Cochlear Implantation</td>
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<td>Electrically-evoked ABR (EABR) for Potential ABI Candidates via Endoscopically-guided, Direct Round Window Stimulation</td>
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<td>Attention to Infant-directed Speech in Deaf Infants with Cochlear Implants</td>
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<td>Evaluation of an Automatic System to Record and Analyze Electrically Evoked Compound Action Potentials</td>
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<td>Influences of Working Memory on Hearing Abilities in Cochlear Implant Users</td>
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<td>Auditory Neuropathy Spectrum Disorder: Proposed Profiles for Improved Audiologic Management</td>
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<td>Susan Gibbons, AuD</td>
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<td>Bimodal Ear to Ear Audio Streaming: Speech Understanding Advantages in Complex Listening Situations</td>
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<td>The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A Systematic Review</td>
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<td>Effect of Phonological Errors on Speech Intelligibility in Early and Later Implanted Pediatric Cochlear Implant Users</td>
<td>Olga Peskova, MS</td>
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<td>Cochlear Implantation: Outcomes in Children with Cochlear Nerve Deficiency</td>
<td>Melissa Auchter, AuD</td>
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<td>Pediatric Case Report Of Performance With Three Different Remote Microphone Systems: Receivers Versus Streamers</td>
<td>Beth Holstad, AuD</td>
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<td>The Immersion 360 System: Bringing the Outside World into the Clinic</td>
<td>Francois Bergeron, PhD</td>
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<td>Learning Molecular Imaging-based Neurologic Predictors of Cochlear Implant Outcome in Prelingually Deaf Children</td>
<td>Jae-Jin Song, MD, PhD</td>
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<td>Music Enjoyment in SSD Patients: The Synergistic Effect of Electric and Acoustic Stimulation</td>
<td>David Landsberger, MD</td>
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FRIDAY, JULY 28, 2017

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<td>Michael Merzenich, PhD</td>
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<td>Cognition Panel: The Impact of the Home Environment on Language and the Brain in CI Users</td>
<td>Moderator: Matthew Fitzgerald, AuD, PhD</td>
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<td>Evaluation of Long Term Cochlear Implant Use in Patients with</td>
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<td>Chinese Mandarin Tone Recognition in Patients with Bimodal Cochlear</td>
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<td>Cochlear Implantation for Rehabilitation of Single Sided Deafness in</td>
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<td>Hearing Benefit Following Extended Contralateral Routing of Signal</td>
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<td>Localization and Quality of Life after Cochlear Implantation in</td>
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<td>Masking Release with Changing Fundamental Frequency: Electric</td>
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<td>Predictors of Round Window Visibility In Cochlear Implantation with</td>
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<td>Outcomes of Revision Cochlear Implantation for Soft Failure</td>
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## S5-2 Delivery Panel: Tips from the Trenches - Lessons Learned from Experience with Pediatric Cochlear Implantation

**Moderators:** Jan Larky, MA and Jolie Fainberg, MA  
Panelists: Julie Cooper, MS, LSLS Cert AVT; Lisa Tonokawa Marcacci, MS; Kathy Mastrini; Sarah Coulthurst, MS

### Continental 1-4

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<td>Kathy Mastrini; Sarah Coulthurst, MS</td>
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<td>Anita Jeyakumar, MD</td>
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<td>Application of Kaizen Principles, Methods, and Tools to a Large Cochlear Implant Program: A Quality Improvement Study</td>
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<td>The Fundamentals for Developing a National Registry of Auditory Implants</td>
<td>Andy Hall, FRCS</td>
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<td>David Low, MBBS</td>
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<td>Donna Sorkin, MA</td>
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<td>AAMI CI86, A New Standard for Cochlear Implants. What Does it Mean for CI Professionals?</td>
<td>Teresa Zwolan, PhD</td>
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<td>Alejandro Rivas, MD</td>
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<td>Perimodiolar, Slim Straight and Thin Perimodiolar Electrode Arrays: Comparison of Performance Outcomes</td>
<td>J. Eric Lupo, MD</td>
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<td>Chantal Degen, MD</td>
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<td>Short and Standard Electrodes in Infants with Profound Deafness</td>
<td>Camille Dunne, PhD</td>
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<td>Surgical Outcomes with a New Slim Modiolar Cochlear Implant Electrode Array</td>
<td>Jonathan McJunkin, MD</td>
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<td><strong>Moderators:</strong> Sarah Sydowski, AuD, PhD; Susan Waltzman, PhD</td>
<td><strong>Grand Ballroom B</strong></td>
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<tr>
<td>3:00 PM - 3:09 PM</td>
<td></td>
<td>MAP Optimisation with Artificial Intelligence</td>
<td>Paul Govaerts, MD, MSc, PhD</td>
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<tr>
<td>3:09 PM - 3:18 PM</td>
<td></td>
<td>From Activation to Complex Programming: The When, Why and How of Pediatric NRT</td>
<td>Yetta Abrahams, MA</td>
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<tr>
<td>3:18 PM - 3:27 PM</td>
<td></td>
<td>Clinical Trial Results: Wireless Programming Pod</td>
<td>Sara Neumann, AuD</td>
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<tr>
<td>3:27 PM - 3:36 PM</td>
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<td>Real World Listening Environments and the Success of Children Using SCAN</td>
<td>Yetta Abrahams, MA</td>
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<tr>
<td>3:36 PM - 3:45 PM</td>
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<td>Evaluation of the Kanso Sound Processor: Clinical Trial Results</td>
<td>William Shapiro, AuD</td>
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<td>3:45 PM - 4:00 PM</td>
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<td>Q&amp;A</td>
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<tr>
<td>3:00 PM - 4:00 PM</td>
<td>S6-3</td>
<td><strong>Delivery Panel: Effective Use of Limited Resources in Cochlear Implantation</strong></td>
<td><strong>Continental 5-6</strong></td>
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<td><strong>Moderator:</strong> David Haynes, MD</td>
<td><strong>Continental 5-6</strong></td>
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<td></td>
<td></td>
<td>Panelists: Meredith Holcomb, AuD; Charles Syms, MD; Greg Licamelli, MD; Douglas Sladen, PhD; Amy McConkey Robbins, MS, LSLS Cert. AVT; Hannah Eskridge, MSP</td>
<td><strong>Continental 5-6</strong></td>
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SATURDAY, JULY 29, 2017

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<tr>
<td>7:30 AM - 8:30 AM</td>
<td>IND06</td>
<td>Industry Satellite Symposium</td>
<td>Grand Ballroom B</td>
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<tr>
<td>8:40 AM - 9:10 AM</td>
<td>KEY04</td>
<td>Keynote: First-in-human Trial of the Labyrinth Devices MVI™ Multichannel Vestibular Implant System— Early Results</td>
<td>Charles Della Santina, MD, PhD</td>
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<tr>
<td>9:10 AM - 9:40 AM</td>
<td>KEY05</td>
<td>Keynote: The Growth of Language Understanding in the First 3 Years is Critical: How to Support It and How to Measure It</td>
<td>Anne Fernald, PhD</td>
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<tr>
<td>9:40 AM - 9:57 AM</td>
<td>ACIA02</td>
<td>Invited Talk: Early Sign Language Exposure and Cochlear Implantation Benefits</td>
<td>Andrea Warner-Czyz, PhD</td>
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<tr>
<td>9:57 AM - 10:15 AM</td>
<td>COF05</td>
<td>Coffee Break</td>
<td>Grand Ballroom B</td>
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<tr>
<td>10:15 AM - 11:35 AM</td>
<td>S8</td>
<td>Technology Panel: Cochlear Implants and Technology: How Do We Bridge the Gap?</td>
<td>Grand Ballroom B, Vinton G. Cerf, PhD, Poppy Crum, John Hernandez, Nate Niparko, Mike Marzalek</td>
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<tr>
<td>11:40 AM - 12:40 PM</td>
<td>S9-1</td>
<td>Technology and Innovation</td>
<td>Continental 5-6, Fred Telischi, MD, Teresa Zwolan, PhD</td>
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<tr>
<td>11:40 AM - 11:49 AM</td>
<td></td>
<td>Biological Therapies - From Improvements Towards a Cure</td>
<td>Stefan Heller, PhD</td>
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<tr>
<td>11:49 AM - 11:58 AM</td>
<td></td>
<td>Restoration of the High Frequency Angular Vestibulo-ocular Reflex with Vestibular Implants</td>
<td>Nils Guinand, MD</td>
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<tr>
<td>11:58 AM - 12:07 PM</td>
<td></td>
<td>Preliminary Findings of a Parent-focused Intervention Using Mobile and Wearable Technology to Enrich the Everyday Language Environments of Young Children</td>
<td>Jaime Leigh, PhD</td>
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<tr>
<td>12:07 PM - 12:16 PM</td>
<td></td>
<td>Benefit of Adaptive Dual-Microphone Beamformers for Understanding Speech in Noise in Cochlear Implant Recipients and Bimodal Listeners</td>
<td>Lisa Dahlstrom, AuD</td>
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<tr>
<td>12:16 PM - 12:25 PM</td>
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<td>Legal and Ethical Obligations of the Clinician-Patient-Industry Relationship</td>
<td>Michael Page, AuD</td>
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<td>12:25 PM - 12:40 PM</td>
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<td>Q&amp;A</td>
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<td>11:40 AM - 12:40 PM</td>
<td>S9-2</td>
<td>Audiology / Devices</td>
<td>Grand Ballroom B, Julie Arenberg Bierer, PhD, Alison Grimes, AuD</td>
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<tr>
<td>11:40 AM - 11:49 AM</td>
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<td>The Effectiveness of a Middle Ear Implant in Some Cochlear Implant Candidates</td>
<td>Joseph Chang, MD</td>
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<td>11:49 AM - 11:58 AM</td>
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<td>Bonebridge in Children with Pinna Abnormalities and Canal Atresia</td>
<td>Ing Ping Tang, MS (ORL-HNS)</td>
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<td>11:58 AM - 12:07 PM</td>
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<td>Cortical Auditory Evoked Potential (CAEP) and Behavioural Measures of Auditory Function in an Child with a Single Sided Deafness</td>
<td>Oscar Cañete, PhD</td>
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<td>12:07 PM - 12:16 PM</td>
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<td>Measuring Sound Processor Threshold Levels for Pediatric Cochlear Implant Recipients Using Visual Reinforcement Audiometry via Telepractice</td>
<td>Joshua Sevier AuD</td>
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<td>12:16 PM - 12:25 PM</td>
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<td>Pilot Results of CI Functional Testing Using a Tablet Audiometer without a Sound-field or Audiometric Booth</td>
<td>Matthew Bromwich, MD, FRCSC</td>
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<td>Q&amp;A</td>
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<td>11:40 AM - 12:40 PM</td>
<td>S9-3</td>
<td>Auditory Brainstem Implantation</td>
<td>Continental 1-4, J. Thomas Roland, MD, Thomas Lenarz, Prof. Dr. med.</td>
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<td>11:40 AM - 11:49 AM</td>
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<td>Oral Communication Assessment and Outcomes in Children with Auditory Brainstem Implants</td>
<td>Dianne Hammes Ganguly, MA</td>
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<td>11:49 AM - 11:58 AM</td>
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<td>Pediatric Auditory Brainstem Implant: Outcome and Early Age at Implantation</td>
<td>Liliana Colletti, PhD</td>
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<td>11:58 AM - 12:07 PM</td>
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<td>Longitudinal Changes in Electrically Evoked Auditory Event-Related Potentials in Children with Auditory Brainstem Implants</td>
<td>Shuman He, MD, PhD</td>
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<td>12:07 PM - 12:16 PM</td>
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<td>Pediatric Auditory Brainstem Implant Outcomes: An Update from one North American Institution’s Clinical Trial</td>
<td>Kevin Wong, BA</td>
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<td>12:16 PM - 12:25 PM</td>
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<td>Auditory Brainstem Implantation Is Beneficial For Prelingually Deaf Children</td>
<td>Robert Behr, MD</td>
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<td>Q&amp;A</td>
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<td>12:40 PM</td>
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<td>Meeting Adjourns</td>
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<td>1:00 PM - 4:00 PM</td>
<td>WKS01</td>
<td>Post-Conference Consumer Workshop</td>
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1. Validation of the RCHSD Children’s Implant Profile (ChIP) Score: Improving Outcomes of Pediatric Cochlear Implant Candidates
   Rosabel Agbayani MPH

2. Assessment of Quality of Life in Adolescents with Cochlear Implant
   Helena Alves

3. Examining Speech and Language Characteristics in a Cohort of Children with Cochlear Implants and Childhood Apraxia of Speech
   Becky Baas MA

4. Exploring the Stories Hearing Parents Tell their Deaf Children about their Decision to (or not to) Opt for Cochlear Implantation During Infancy
   Brittan Barker PhD

5. Optimizing the Benefit of Cochlear Implant Processors for Sound Localization
   Daniel Beaudoin MOA

6. Cochlear Implants and Bilingualism: A Realm of Possibilities
   Michele Berke PhD

7. Collaborative Partnerships to Improve Outcomes for Children who are Deaf/Hard-of-Hearing
   Kristina Blaiser PhD, CCC-SLP

8. Cochlear Implant Evaluation in Patients with Single Sided Deafness
   Arthur Castilho MD

9. Early Linguistic Developments of Simultaneous Bilateral Cochlear Implants
   JAE YOUNG CHOI MD, PhD

10. Listen to Me: Benefits of Intensive Education for Parents of Children with Cochlear Implants
    Julie Cooper MS, CCC-SLP, LLSL

11. Evaluation of Unilateral Cochlear Implant Outcomes in Pre-Lingual Children
    Guillerme Crespo MD

12. Correlation of Cochlear Implantation Outcomes in Children With Pre-Existing Cerebral Abnormalities
    Shweta Deshpande MA, CCC-SLP

13. Does the Addition of a Group Music Intervention to Traditional Listening and Spoken Language Therapy Support the Development of School-readiness Skills in Preschool Children with Hearing Loss?
    Glynnis DuBois PhD Student

    Tarek El Dessouky MD

15. Language Outcomes Following Cochlear Implantation in Pediatric Patients with Cochlear Nerve Deficiency
    Elizabeth Erickson O’Neill AuD

    Alice Eriks-Brophy PhD

17. Cochlear Implantation in Cases of Unilateral Hearing Loss (UHL): Therapy Implications for Children
    Maegan Evans PhD

18. Identification and Management of Children with Usher Syndrome
    Jolie Fainberg MD

19. The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A Systematic Review
    Kyle Fletcher MD

20. Bilingualism and Infancy Hearing Loss: Relationship between First Language and Italian Language Evolution in a Group of Children with Hearing Aids and/or Cochlear Implants
    Maria Consolazione Guarnaccia ENT-Doctor in Audiology

21. Teletherapy: Factors that Promote Success
    Sandra Hancock MS

22. Cochlear Implant (Re)habilitation in Developing Country of Indonesia
    Eka Hikmat MSpecEd

23. Synchronous versus Metachronous Cochlear Implantation in Small Children - Does it Matter?
    Laura Holtmann MD

    Rudi Jonsson MD, PhD

25. Proportion of Nouns and Vocabulary Size in Young CI Recipients
    Jongmin Jung PhD

26. CI Provision for Children of Deaf Parents
    Annette Leonhardt Prof. Dr. Med.

27. Tele-Mentoring: Providing Comprehensive Community Care to Cochlear Implant Recipients
    Shana Lucius MA, CCC-SLP, LLSL

28. The Family Environment and Cochlear Implantation as Treatment for Single Sided deafness Affect Outcomes?
    Madhu Sundarrajan PhD

29. Consonant Production Abilities of Children with Cochlear Implants
    Madhu Sundararajan PhD

30. Development of a Parenting Stress Module for Caregivers of School-Age Children with Cochlear Implants
    Alexandra Quittner PhD

31. The Quality of Life in Small Children in the First Two Years After Cochlear Implantation
    Luminta Radulescu Dr.

32. Health Related Quality of Life in Children with Cochlear Implants Equipped at an Early Age During the First Two Years
    Alexander Saez Dr.

33. An Analysis for Information and Expectations of Parents of a Child with Cochlear Implant
    Ayse Sanem Sahli PhD

34. Turkish Adaptation, Validity and Reliability of Preschool Language Scale-Fifth Edition (PLS-5): Turkish Preschool Language Scale-5 (TPLS-5)
    Ayse Sanem Sahli PhD

35. Investigation of the Perceptions of Parents’ Children with Cochlear Implant: The Influence of Music Therapy in their Children’s Auditory Rehabilitation
    Ayse Sanem Sahli PhD

36. Language Sampling Practices with Children who are Deaf and Hard of Hearing
    Megan Shannahan B.S.

37. Case Series: Does Timing of Cochlear Implantation as Treatment for Single Sided Deafness Affect Outcomes?
    Michelle Shannon AuD, CCC-A

38. Consonant Production Abilities of Children with Cochlear Implants
    Madhu Sundararajan PhD

39. Rhyme Awareness in Children with Cochlear Implants: Investigating the Effect of a Degraded Auditory System on Language and Literacy Development
    Katrina Vermeiren PhD

40. Nasal Resonance Characteristics in Mandarin Speaking Children with Cochlear Implants
    Yajing Wang PhD
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52 Enlarged Cochlear Aqueduct and Surgical Risk of Cerebospinal Fluid Leak: How Much is Common? Giovanni Blanchin MD

53 Electrococchleography for Monitoring of Residual Hearing during and after Cochlear Implantation via Intracochlear Electrode Contacts Andreas Ruechner PhD

54 Surgical Outcome of Cochlear Implantation in Patients with Chronic Otitis Media Jin-Woong Choi MD, PhD

55 A Case of Cochlear Implantation in Neurofibromatosis Type II Sung-Won Choi MD

56 Cochlear Implantation after Bilateral Otic Capsule Violating Temporal Bone Fractures Sung-Won Choi MD

57 The Reversed Internal Magnet of Cochlear Implant after Magnetic Resonance Imaging Sung-Won Choi MD

58 Who Can Benefit from EAS? Young-Myoung Chun MD

59 Anesthesia During Mono and Binaural Cochlear Implantation in Children before 12 Months of Age Elina Cristofari MD, PhD

60 Comparison of the Insertion Depth and Hearing Preservation Results between the HiFocus 1j and HiFocus Mid Scala Electrodes in Adults and Children Shweta Deshpande MA, CCC-SLP

61 Morphological Basis for Cochlear Implantation Dragoslava Djeric Prof.

62 Longterm Experiences with CI and Labyrinthectomy in Single Sided Meniere’s Disease and Deafness Gunnar Doobe MD

63 Lateral Semicircular Canal Occlusion, Saccus Decompression and Cochlear Implantation: A New Approach for Refractory Meniere’s Disease and Functional Deafness Gunnar Doobe Resident

64 Factors Impacting Loss of Residual Hearing and Potential Otoprotective Strategies Adrien Eshraghi MD, FACS

65 Delayed Facial Palsy Following Uncomplicated Tymanomastoid Surgery Breitsilv Gal MD, PhD

66 Estimating the Coupling Efficiency and Integrity of VSB Middle Ear Implant Systems using ABR/ASSR Methods Ute Geiger MSc

67 Rapid, Cost-free Method to Precisely Align Position of Bilateral Cochlear Implants John Germiller MD, PhD

68 Electrically-evoked ABR (EABR) for Potential ABI Candidates via Endoscopically-guided. Direct Round Window Stimulation John Germiller MD, PhD

69 Rapid Fixation of Thin Cochlear Implants to the Skull Surface Using a Single Resorbable Screw (“Pericraniox”) John Germiller MD, PhD

70 Correlations of Intracochlear and Extracochlear Electrocochleography during Cochlear Implantation in Children and Adults Christopher Giardina BS

71 Intra- and Extracochlear Electrocochleography with Impedance Measures during Array Insertion Predict Anatomic Trauma to the Mongolian Gerbil Cochlea Christopher Giardina BS

72 Spontaneous Migration of a Lateral Wall Electrode Necessitating Reimplantation Samuel Gubbels MD

73 Compliance With CDC Pneumococcal Vaccination Schedules: An Important Challenge For Pediatric Cochlear Implant Programs Stephen Hoff MD

74 The Impact of Electrode Type on Intraoperative and Postoperative Telemetry Measures in Cochlear Implant using Different Surgical Technique Amr Ismail MD

75 Our Experience in Pediatric Cochlear Implantation Djital Aiad Khaled Maître de conference A

76 Management of Surgical Difficulties During Cochlear Implant with Malformed Ear Djital Aiad Khaled Maître de conference A

77 Epidemiologic Study of Bilateral Deep Deafness Implant in Our Center Djital Aiad Khaled Maître de conference A

78 Cochlear Implantation in Post-Meningitis Candidates Riad Khnifes MD, MHA

79 Cochlear Implantation in the Patient with Open Mastoid Cavity Choon Dong Kim MD, PhD

80 Electrode Misdirection into the Superior Semicircular Canal Minbum Kim MD, PhD

81 Cochlear Implantation in a Child Diagnosed with Fascioscapulohumeral Muscular Dysphagia Young Ho Kim MD, PhD

82 Predicting the Degree of Difficulty in Cochlear Implant Surgery - The Use of an Objectively Structured Imaging Based Grading System Ameet Kishore FRCS

83 Surgery of the Basal Turn Ossification Vladimir Kuzovkov MD, PhD

84 Insertional Trauma Depending on the Hook Region Anatomy Vladimir Kuzovkov MD, PhD

85 A New Device Fixation Technique: Long-term Results in Children Vladimir Kuzovkov MD, PhD

86 Music Enjoyment in SSD Patients: The Synergistic Effect of Electric and Acoustic Stimulation David Landtsberger PhD

87 Cochlear Implants: Insertion Assessment by Computed Tomography Raquel Laura Dr. Med.

88 First Experience with a New Thin Lateral Electrode Array Thomas Lienarz MD, PhD
181 Does the Benefit of Intraoperative Testing of Cochlear Implants Outweigh Associated Costs? Ashleigh Lewkowitz AuD

182 Music Training Improves Pitch Perception in Prelingually Deafened Children With Cochlear Implants Lieber Li MD, PhD

183 Screening and Analysis of Common Deafness Genes in Patients with Severe Hearing Loss Shao-Feng Liu MD

184 Analysis of Effect of Hearing and Speech Rehabilitation after Cochlear Implantation Shao-Feng Liu MD

185 Cochlear Implantation in Children with Borderline Hearing Loss Eunjung Na MSc, PhD (c)

186 Auditory Neuropathy Spectrum Disorder: Proposed Profiles for Improved Audiologic Management Allison Nachman AuD

187 Post Operative Complications of Cochlear Implantation Ali Mesbah Nacim MD

188 Does Electrical Stimulation Improve Neural Synchronisation after Cochlear Implantation? A Comparative Study in Sensorineural Hearing Loss, Auditory Neuropathy Spectrum Disorder and Hypoplastic Cochleovestibular Nerves Neenita Narayan BSc, MBA

189 The Benefit of Noise-ReductionTechnologies with and without Visual Cues for Cochlear Implant Recipients Sarah Natale MS

190 Auditory Brainstem Implant in Children with Cochlear Nerve Aplasia and Hypoplasia Norma Pallares M.A.

191 Long Term Cross-Modal Plasticity in Auditory and Visual Sensory Cortices after Hearing Deprivation in the Adult Rat Mariann Pernia Graduate

192 Effects of a Novel Sound Processing Strategy on Music Perception and Enjoyment in Cochlear Implant Users Bjorn Petersen PhD

193 The Electrical Stapedial Reflex Threshold Over Time Cache PITT AuD

194 When is a Benefit Acoentralateral Hearing Aid for Cochlear Implant Recipients Maria Eugenia Prieto AuD


196 Considering Treatment Options for Children with Unilateral Severe to Profound Hearing Loss Bernadette Rakiszawski AuD

197 Utilizing Electroacoustic Simulation in Individuals with Enlarged Vestibular Aqueducts: An Analysis of Four Cases Julia Reid BA

198 Evaluation of a Novel Bimodal Fitting Formula in Pediatric Bimodal Cochlear Implant Recipients Carina Reyes AuD

199 The Effect of Wireless Microphone Technology on Familiar Word Recognition in Toddlers with Cochlear Implants Susie Robertson PhD

200 Consonant and Vowel Repetition and Confusion in Cochlear Implant Users Measured by Nonsense Syllable Tests Anna Rudzik MSc

201 Consideration of Age at Implantation on Cochlear Implant Programming Meredith Rooth AuD

202 Datalogging Analysis in Paediatric Cochlear Implant Users Natalia Rossi Lic.

203 Perception of Interruval Time Differences with Cochlear Implants with a Focus on the Ongoing Fine Structure Tobias Rottmann Dipl.-Ing.

204 Hearing Performance with Different Generations of Fine Structure Strategies Tobias Rottmann Dipl.-Ing.

205 Speech Perception Bottlenecks in Cochlear Implant Subjects: Integration of the Words and Indical Clues in Speech is an Additive Rather than a Synergetic Task Chad Ruffin MD

206 Preoperative Audiological Data as a Predictor of Cochlear Implant Hearing Thresholds after Six Months of Device Activation in Children Younger than Five Years Julia S. C. Chiossi BSc

207 Turkish Adaptation, Validity and Reliability of Musical Perception Test (MPT): T-MPT Ayse Sanem Sahli PhD

208 Musical Perception and Musical Satisfaction in Adults with Cochlear Implant Ayse Sanem Sahli PhD

209 Remote Support for First- & Follow-Up-Fittings of Cochlear Implants in Children Kelly Schepers BH

210 The Outcome of Domestic Cochlear Implants in Prelingual Deafness Children Shuping Sun MD,PhD

211 Implantation in Children Under 12 Months of Age: The Effects of Hidden Disabilities Kaitlyn Tona AuD

212 Improved Contralateral Hearing after Unilateral Cochlear Implantation in a Child with Auditory Neuropathy Spectrum Disorder Ronald Vilela MD

213 Factors Impacting Long-term Follow-up and Cochlear Implant Use in Children Cynthia Warner AuD

214 Place Dependent Stimulation Rates Improve Pitch Perception in Cochlear Implantee Tobias Weissgerber Dr.

215 Analysis of Factors Predicting Improved Speech and Language Outcomes after Cochlear Implantation for Post-meningitic Sensory Hearing Loss Chad Ruffin MD

216 Revision Cochlear Implantation: A Retrospective Review of Young Adults who Received their First Implant During Childhood Jennifer Woodard AuD

217 Long Term Electric Charge Requirements for Children Enrolled in the Childhood Development After Cochlear Implant (CDACI) Study Teresa Zwolan PhD

Miscellaneous

218 Malformation of the Ear in Juvenile Paget’s Disease - Case Report Judith Arnoldns MD

219 Parental Psychosocial Experiences in Pediatric Hearing Healthcare: A Qualitative Analysis Diane Bigler BS

220 Cochlear Service Point Eliana Cristofani MD PhD

221 Current Measurements of Music Appreciation in Cochlear Implant Users Alvin del Torres MD

222 Improving the Transition Experience for Teens with Cochlear Implants Transferring Their Care from a Pediatric Setting to an Adult Setting Janet Olds PhD

223 CI and MRI Compatibility - Survey of Information Given to Patients and Implications Christopher Raine FRCS, ChM

224 X-linked Malformation Deafness, a New Syndrome? Henrik Smeds MD, PhD

225 What Can We Expect From the Second Cochlear Implant, When the Implantation Interval Is Longer Than 10 Years Myung-Whan Suh
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Since launching the world’s first cochlear implant system more than 30 years ago, Cochlear Limited and its U.S. headquarters have brought the miracle of sound with its entire product portfolio to more than 450,000 hearing-impaired individuals across the globe. We work with over 2,000 of the top hearing professionals around the world and have more than 100 active research partners in 20 different countries to continuously innovate and provide breakthroughs to those with hearing loss. The result is the most chosen, most trusted cochlear implant system in the world. Cochlear’s promise “Hear now. And always” reflects our philosophy of a lifetime commitment to those individuals who choose our products.
cochlearamericas@cochlear.com
877-883-3101
www.cochlear.com/us

EARLENS
Earlens is the first hearing device to use light to transmit sound. By using light, Earlens provides the broadest bandwidth on the market: delivering 60 dB of gain between 125Hz and 10kHz. Clearer, more natural sound and delivery of both low and high frequencies results in a truly differentiated user experience.
lisa.manners@earlens.com
650-739-4541
www.earlens.com

EGYPT COCHLEA
Egypt Cochlea is the biggest conference for Pediatric Cochlear Implant in the Middle East. Best renowned ENTs will gather in one event to educate clinicians with the emerging best medical practices and technologies; with an objective to eradicate deafness and give hope to children to pursue their dreams and live life to its fullest.
Egypt Cochlea 2018
8-10 February 2018
Royal Maxim Palace Kempinski – Cairo, Egypt
sec@egyptcochlea.org / info@blueskyevent.org
(+2) 0115 880 8986
www.egyptcochlea.org

GRACE MEDICAL
Grace Medical provides innovative product solutions for the ENT surgeon, including Titanium and HA adjustable implants, Nitinol Stapes and Malleus Pistons, Ventilation Tubes and Instrumentation.
www.gracemedical.com
901-386-0990
info@gracemedical.com

INSTITUTE FOR COCHLEAR IMPLANT TRAINING (ICIT)
The Institute for Cochlear Implant Training (ICIT) is a non-profit organization designed to promote excellence in cochlear implantation through education and training opportunities for professionals who wish to focus on cochlear implantation as an area of expertise.
info@CochlearImplantTraining.com
720-285-2105
http://CochlearImplantTraining.com

J. MORITA USA, INC.
J. Morita USA services North American on behalf of one of the world’s largest manufacturers/distributors, J. Morita Corporation. Products include the 3D Accuitomo 170, a high resolution, low dose CBCT X-ray unit excellent for otolaryngology.
crasmussen@jmoritausa.com
949-383-6258
www.morita.com/usa

KURZ MEDICAL, INC.
KURZ provides passive middle ear prostheses in Titanium and Nitinol. With inventive products including CiIP® and Ball Joint designs KURZ sets new standards in micro-engineering. Dedication to research and development, combined with understanding of middle ear mechanics and clinical evidence makes KURZ® one of the most advanced Middle Ear reconstruction systems worldwide.
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770-349-6330
http://www.kurzmed.com

GN RESOUND
ReSound is part of GN Group – pioneering sound from world-leading ReSound hearing aids to Jabra office headsets and sports headphones. ReSound Smart Hearing™ aids help people feel involved, connected and in control. In an ever-smarter world, we think big and challenge the norm so we can transform lives through the power of sound.
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www.resoundpro.com
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As a global leader in medical technology, services and solutions, Medtronic improves the lives and health of millions of people each year. We use our deep clinical, therapeutic and economic expertise to address the complex challenges faced by healthcare systems today. Let’s take healthcare Further, Together. Learn more at Medtronic.com.

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www.medtronicENT.com

**MED-EL**
For more than 25 years, MED-EL has been a leading innovator and trusted partner in the field of hearing implants. Visit our booth and find out what makes MED-EL cochlear implants, middle ear implants, and bone conduction hearing systems the most advanced hearing loss solutions available.

office@medel.com
+43 5 77 88
http://www.medel.com/at/

**OTICON MEDICAL**
Oticon Medical is a manufacturer of the Ponto system which consists of the Ponto BHX Implant, an abutment and a Ponto sound processor; which is implanted using a minimally invasive surgery technique (MIPS). The Ponto sound processor is currently the world’s most powerful abutment-level processor family, Ponto 3.

info@oticonmedicalusa.com
888-277-8014
www.oticonmedical.com

**OTOTRONIX**
Ototonix designs and manufactures advanced hearing technologies for the treatment and diagnosis of hearing loss. The MAXUM Implant improves the patient experience with a clearer, more natural sound. Our hearing and balance diagnostic systems are designed to streamline conventional processes.

support@ototonix.com
877-410-4327
www.ototonix.com

**SAUDI OTOLARYNGOLOGY SOCIETY**
Saudi Otolaryngology Society is a non-profit organization with over 500 members. An active member of IFOS one of the largest society in the middle east and has existing partnership with international ORL societies, associations and organizations. Consistently organizing regional & international conferences including courses and symposia.

info@arabcic.com
+966-11-4786100 Ext. 5651
www.entsaudi.org

**SHOEBOX AUDIOMETRY**
SHOEBOX Audimetry is an automated, iPad-based audiometer. Listed as a Class II medical device with the FDA and Health Canada, SHOEBOX has been clinically validated to produce diagnostic results even when used outside of a traditional sound booth. Offering both automated and manual testing modes, SHOEBOX is changing the way hearing testing is being performed in more than 50 countries worldwide.

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https://www.shoebox.md/

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**XORAN TECHNOLOGIES LLC**
Xoran Technologies LLC is the pioneer of low-dose radiation, cone-based CT scanners for use in-office and operating rooms. Medical doctors around the world rely on our market leading MiniCAT IQ™, xCAT®, and VetCAT™ scanners to diagnose and treat patients.

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www.xorantech.com
Hilton San Francisco
(Headquarters)
333 O’Farrell Street
San Francisco, CA 94102
Phone: (415) 771-1400

Parc 55
55 Cyril Magnin St
San Francisco, CA 94102
Phone: (415) 392-8000
Website: www.parc55hotel.com

Clift Hotel
495 Geary St
San Francisco, CA 94102
Phone: (415) 775-4700
Website https://www.morganshotelgroup.com/originals/originals-clift-san-francisco

TAXI SERVICE
There is taxi stand located in the hotel’s main entrance – guests may ask Valet staff to assist them. You may also dial Yellow Cab Co-op at (415) 333-3333 to order a taxi.

Rideshare with Uber and Lyft is also available by downloading the apps on your mobile device.

PARKING
Self-Parking is available at the Hilton San Francisco for $55 + tax.
Valet parking for regular sized vehicles is $67 + tax.
Dining Options
There are many great dining options in close proximity to the Hilton San Francisco Union Square, as illustrated below. Please see the hotel concierge for directions to any of the restaurants listed below. Additional Points of Interest and Dining/Entertainment Maps are also available at the Registration desk.

**Burrit Room + Tavern**
(415) 400-0561  
417 Stockton St, San Francisco, CA 94108  
New American/Steakhouse  
0.5 miles

**Café De La Presse**
(415) 398-2680  
352 Grant Avenue, San Francisco CA 94108  
French  
0.6 miles

**E&O Asian Kitchen**
(415) 693-0303  
314 Sutter Street, San Francisco, CA 94108  
Asian Fusion  
0.5 miles

**Farallon**
(415) 956-6969  
450 Post St, San Francisco, CA 94102  
Seafood  
0.2 miles

**First Crush**
(415) 982-7874  
101 Cyril Magnin St, San Francisco, CA 94102  
American French  
0.2 miles

**Hakkasan**
(415) 829-8148  
1 Kearny St, San Francisco, CA 94108  
Chinese  
0.5 miles

**Jasper's Corner Tap and Kitchen**
(415) 775-7979  
401 Taylor St, San Francisco, CA 94102  
American  
0.1 miles

**John's Grill**
(415) 986-0069  
63 Ellis St, San Francisco, CA 94102  
American  
0.3 miles

**Le Colonial**
(415) 931-3600  
20 Cosmo Pl, San Francisco, CA 94109  
Vietnamese  
0.2 miles

**Morton's Steakhouse**
(415) 986-5830  
400 Post St. Lower Level, San Francisco, CA 94102  
Steakhouse  
0.3 miles

**Puccini & Pinetti**
(415) 392-5500  
129 Ellis St, San Francisco, CA 94102  
Italian  
0.2 miles

**Sons & Daughters**
(415) 391-8311  
708 Bush Street, San Francisco, CA 94108  
Farm to Table  
0.4 miles

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**Upcoming ACI Alliance Sponsored Meetings**

**MARCH 7-10, 2018 / WASHINGTON DC**
CI2018 Emerging Issues in Cochlear Implantation Symposium

**JULY 11-13, 2019 / MIAMI, FL**
CI2019 Pediatric: 16th Symposium on Cochlear Implants in Children

**Scientific Program Chairs:**
Fred Telischi, MD and Ivette Cejas, PhD  
University of Miami Health System / Ear Institute

**SPRING 2020 / ORLANDO, FL**
CI2020 International: 16th International Conference on Cochlear Implants and Other Implantable Technologies

**Scientific Program Chairs:**
University of North Carolina
# Schedule at a Glance

## WEDNESDAY, JULY 26, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 PM - 1:30 PM</td>
<td>Industry Satellite Symposium</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Industry Satellite Symposium</td>
</tr>
<tr>
<td>4:00 PM - 5:30 PM</td>
<td>Industry Satellite Symposium</td>
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## THURSDAY, JULY 27, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:30 AM</td>
<td>Industry Satellite Symposium with Breakfast</td>
</tr>
<tr>
<td>8:40 AM - 9:10 AM</td>
<td>Opening Ceremonies</td>
</tr>
<tr>
<td>9:10 AM - 10:10 AM</td>
<td>John Niparko Memorial Lecture: Bruce Gantz, MD “When Should We Attempt to Preserve Residual Acoustic Hearing in Children?”</td>
</tr>
<tr>
<td>10:10 AM - 10:40 AM</td>
<td>Coffee Break with Exhibitors</td>
</tr>
<tr>
<td>10:40 AM - 11:55 AM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>11:55 AM - 12:55 PM</td>
<td>Lunch with Exhibitors</td>
</tr>
<tr>
<td>12:55 PM - 2:10 PM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>2:10 PM - 2:40 PM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>2:40 PM - 3:35 PM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>3:35 PM - 4:15 PM</td>
<td>Concurrent Poster Highlights</td>
</tr>
<tr>
<td>4:15 PM - 5:30 PM</td>
<td>Poster Session</td>
</tr>
<tr>
<td>5:30 PM - 7:00 PM</td>
<td>Welcome Reception</td>
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## FRIDAY, JULY 28, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:30 AM</td>
<td>Industry Satellite Symposium with Breakfast</td>
</tr>
<tr>
<td>8:40 AM - 9:30 AM</td>
<td>ACI Alliance Member Meeting</td>
</tr>
<tr>
<td>9:30 AM - 10:00 AM</td>
<td>Keynote Speaker: Michael Merzenich, PhD “Brain Plasticity and Cochlear Implants”</td>
</tr>
<tr>
<td>10:00 AM - 10:30 AM</td>
<td>Keynote Speaker: Monita Chatterjee, PhD “The Music within Speech: Voice Emotion and Cochlear Implants”</td>
</tr>
<tr>
<td>10:30 AM - 11:00 AM</td>
<td>Coffee Break with Exhibitors</td>
</tr>
<tr>
<td>11:00 AM - 12:15 PM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>12:15 PM - 1:15 PM</td>
<td>Lunch with Exhibitors</td>
</tr>
<tr>
<td>1:15 PM - 2:30 PM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>2:30 PM - 3:00 PM</td>
<td>Coffee Break with Exhibitors</td>
</tr>
<tr>
<td>3:00 PM - 4:00 PM</td>
<td>Concurrent Abstract Sessions and Panels (3)</td>
</tr>
<tr>
<td>4:10 PM - 5:10 PM</td>
<td>Concurrent Abstract Sessions (3)</td>
</tr>
</tbody>
</table>

## SATURDAY, JULY 29, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM - 8:30 AM</td>
<td>Industry Satellite Symposium with Breakfast</td>
</tr>
<tr>
<td>8:40 AM - 9:10 AM</td>
<td>Keynote Speaker: Charles Della Santina, MD, PhD “First-in-human Trial of the Labyrinth Devices MVI™ Multichannel Vestibular Implant System– Early Results”</td>
</tr>
<tr>
<td>9:10 AM - 9:40 AM</td>
<td>Keynote Speaker: Anne Fernald, PhD “The Growth of Language Understanding in the First 3 Years is Critical: How to Support It and How to Measure It”</td>
</tr>
<tr>
<td>9:57 AM - 10:15 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:15 AM - 11:35 AM</td>
<td>Technology Panel: Cochlear Implants and Technology: How Do We Bridge the Gap?</td>
</tr>
<tr>
<td>11:40AM - 12:40 PM</td>
<td>Concurrent Abstract Sessions (3)</td>
</tr>
<tr>
<td>12:40 PM</td>
<td>Meeting Adjourns</td>
</tr>
<tr>
<td>1:00 PM - 4:00 PM</td>
<td>Post-Conference Consumer Workshop: “Cochlear Implants: The Science of Restoring Sound”</td>
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</tbody>
</table>