Maximizing Performance in CI Recipients: Programming Concepts
December 2-3, 2018

Faculty

Andreas Buechner, PhD
Associate Professor-Audiology
Professor for Auditory Implants
Medizinischen Hochschule Hannover

Camille C. Dunn, PhD
Director of Cochlear Implant Program
University of Iowa

Darla Franz, MA
VP of Education and Corporate Communications
MED-EL North America

Rene Gifford, PhD
Director, Cochlear Implant Program
Associate Director, Implantable Hearing Technologies
Vanderbilt Bill Wilkerson Center

Karen Gordon, PhD
Director, Archie’s Cochlear Implant Laboratory
The Hospital for Sick Children

Prof. Dr. Paul Govaerts MD, MSc, PhD
Director, The Eargroup
Antwerp, Belgium

Lillian Henderson, MSP
Clinic Manager-Speech
The Children’s Cochlear Implant Center at UNC

Kurt Koester, PhD
Director, Diagnostics and Monitoring
Advanced Bionics Corporation

Artur Lorens, PhD Eng
Head, Implants and Auditory Perception
Institute of Physiology and Pathology of Hearing
Warsaw, Poland

Derek Minihane, JD BSEE
Vice President of Sound Processors & Clinical Care
Cochlear Limited
Course Description:
The course will address topics related to routine and special programming issues and methods in pediatric and adult recipients. It will also present new and promising techniques to assist in programming including genetic algorithms and the use of objective measures. Consideration will be given to the programming of bimodal, electroacoustic and SSD fittings. Format will include lectures, roundtable discussions and audience participation, with special emphasis on case studies.

Target Audience:
Professionals involved in the programming of cochlear implants.

Learning Outcomes:
- Describe outcomes for bimodal and bilateral CI recipients.
- Describe clinical strategies that may guide clinical decision making for bimodal vs. bilateral CI candidacy.
- Describe outcomes of the classic CI literature and newer peer-reviewed studies regarding the number of active electrodes and spectral maxima needed for optimum speech recognition and sound quality.
Learning Outcomes: (continued)

- Describe clinical strategies for determining electrode deactivation and maxima selection.
- Describe how cortical auditory evoked response assessment may be used within a battery of measures to determine cochlear implant candidacy.
- Describe how cortical auditory evoked response assessment may be incorporated into the cochlear implant programming process.
- Describe how maximize the benefit of hearing assistive technologies through the optimization of device programming and adjustments.
- Describe how to counsel recipients to maximize the benefit received by hearing assistive technology.
- Identify the benefits of co-treating with speech language pathologists in audiology mapping appointments.
- Define ASHA's definition for co-treating.
- Describe alternative methods (A.I.) of device programming.
- Develop a vision on the future of A.I. based CI programming.
- Describe some next steps towards self fitting at home.
- Understand who might be a candidate for CROS technology.
- Understand possible benefits of fitting your patient with CROS technology.
- Explain how electrocochleography can be utilized during cochlear implant surgery.
- Interpret electrocochleography information that is recorded clinically using a cochlear implant.
- List the ways patients and audiologists can use technology to encourage patient-directed care.
- List the ways smartphone technology enables patients to obtain care remotely.
- Describe the impact that hours of sound processor device use has on children and adults.
- Provide improved counseling regarding the importance of consistent device use.
- List the types of duties that Audiology Assistants can perform in a CI Program.
- Describe the financial benefits of having an Audiology Assistant in a CI Program.
- Describe the new features of the Rondo2 and Maestro 7 fitting software.
- Describe the concept of CI application in SSD and identified the benefit of CI.
- Describe the concept of electro-acoustic stimulation.
- Selecting the lower limit of the frequency range over which electric stimulation is provided (the minimum electric frequency).
- Understand how to create an audible map using objective measures.
- Identify minimum behavioral responses required to ensure comfortable listening.
- Describe the basic concept of fitting and rehabilitating single sided deaf (SSD) subjects.
- Understand the main differences between fitting a conventional cochlear implant subject and SSD subjects.
To register, please visit the following website: https://www.eventbrite.com/e/maximizing-performance-in-cochlear-implant-recipients-tickets-48255764290

Course Fee: $105

New Location:  
CUNY Graduate Center  
365 Fifth Avenue (at 34th street)  
Concourse Level  
New York, New York 10016

Presenter's financial and non-financial interests relevant to the content of their presentation for the Maximizing Performance in Cochlear Implant Recipients: Programming Concepts Conference is posted on our website at: https://med.nyu.edu/departments-institutes/otolaryngology-head-neck-surgery/divisions-centers/cochlear-implant-center

Continuing Education Credits:

The Children’s Hearing Institute is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 0.8 CEUs. Academy approval of this continuing education activity is based on course content only and does not imply endorsement of course content, specific products or clinical procedure, or adherence of the event to the Academy's Code of Ethics. Any views that are presented are those of the presenters/CE Provider and not necessarily of the American Academy of Audiology.

This course is offered for up to 0.80 ASHA CEU's  
Intermediate Level, Professional Area

Conference CEUs sponsored by  
The Children’s Hearing Institute
### Agenda
**Sunday, December 2nd**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30am</td>
<td>Registration &amp; Continental Breakfast</td>
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<tr>
<td>9:15am</td>
<td>Welcome – <em>Waltzman, PhD</em></td>
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<tr>
<td>9:20am</td>
<td>Opening Remarks – <em>Shapiro, AuD</em></td>
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#### Session 1

**Moderator: William Shapiro, AuD**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30am</td>
<td>Bimodal Fitting – <em>Gifford, PhD</em></td>
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<tr>
<td>9:45am</td>
<td>How many active electrodes does my patient need? – <em>Gifford, PhD</em></td>
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<tr>
<td>10:00am</td>
<td>Role of Cortical Testing in Device Programming – <em>Wolfe, PhD</em></td>
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<tr>
<td>10:15am</td>
<td>Role of the SLP in Device Programming – <em>Teagle, AuD &amp; Henderson, MSP</em></td>
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<tr>
<td>10:30am</td>
<td>Q&amp;A</td>
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<tr>
<td>11:00am</td>
<td>BREAK</td>
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#### Session 2

**Moderator: William Shapiro, AuD**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:30am</td>
<td>New Approaches to Device Programming</td>
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<tr>
<td></td>
<td>Introduction- <em>Shapiro, AuD</em></td>
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<td>Panel discussion- <em>Pascoal MSc AuD, Zwolan PhD, Gifford PhD</em></td>
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<td>Audience participation</td>
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<td>Future directions- <em>Govaerts MD, PhD</em></td>
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<td>1:00pm</td>
<td>LUNCH</td>
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<td>2:00pm</td>
<td>Tech Suite and Exhibits</td>
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#### Session 3

**Moderator: William Shapiro, AuD**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:30pm</td>
<td>Naida CROS – <em>Dunn, PhD</em></td>
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<td>3:40pm</td>
<td>ECoG – <em>Koester, PhD</em></td>
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<td>3:50pm</td>
<td>Smartphone Connectivity – <em>Scheinin, AuD</em></td>
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<td>4:00pm</td>
<td>Data-logging – <em>Zwolan, PhD</em></td>
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<td>4:10pm</td>
<td>Use of Audiology Assistants – <em>Zwolan, PhD</em></td>
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<td>4:20pm</td>
<td>Rondo2/Maestro 7 – <em>Franz, MA</em></td>
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<tr>
<td>4:30pm</td>
<td>Q&amp;A</td>
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<tr>
<td>5:00pm</td>
<td>Cocktail Reception – Meet the Speakers</td>
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<tr>
<td>6:15pm</td>
<td>Adjourn</td>
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**Agenda**
*Monday, December 3rd*

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**Session 4**

**Moderator: William Shapiro, AuD**

8:00am    Continental Breakfast

8:30am    Management of the Difficult Patient: Expert Panel
(Cases submitted by participants)- *Faculty*

10:00am  Q&A

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**Session 5**

**Moderator: Susan Waltzman, PhD**

10:30am  Issues in Programming Single-Sided Deafness: Kids and Adults – *Buechner, PhD*

10:45am  Electro Acoustic Stimulation – *Lorens, PhD*

11:00am  Use of Electrophysiological Measures to Program CI's in Children with Developmental Delays- *Gordon, PhD*

11:15am  Incorporation of Assistive Technologies – *Wolfe, PhD*

11:30am  BREAK