

11:22–11:26	<b>S25-15</b>	Tonotopic organization of the primary auditory cortex <i>Katarzyna Ciesla (Warsaw, Poland)</i>
11:26–11:30	<b>S25-16</b>	Partial deafness – mapping tonotopy in the primary auditory cortex <i>Katarzyna Ciesla (Warsaw, Poland)</i>
11:30–11:38	<b>S25-17</b>	Tractography of the language network in prelingually deaf patients <i>Theresa Finkl (Dresden, Germany)</i>
11:38–11:46	<b>S25-18</b>	Functional near infrared spectroscopy (fNIRS) imaging of brain function in patients with cochlear implants <i>Paul Kileny (Ann Arbor, United States)</i>
	<b>S25-19</b>	Withdrawn
11:46–11:54	<b>S25-20</b>	Three-dimensional surgical anatomy for cochlear implantation <i>Haruo Takahashi (Nagasaki, Japan)</i>
11:54–11:58	<b>S25-21</b>	Artifacts induced by bone conduction implant with MRI-scan. A method to reduce their impact on radiologic assessment <i>Michael Collin (Marseille, France)</i>
11:58–12:02	<b>S25-22</b>	PET scan evidence of prognostic value of visual cross-modal reorganisation after adult cochlear implantation <i>Olivier Deguine (Toulouse, France)</i>

**WS1 BERNSTEIN SPARKS WORKSHOP** ▶ Vortragssaal der Bibliothek 

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

**P1-6 ePOSTER SESSION** ▶ E-Poster 1 

<b>10:30–11:30</b> E-Poster 1	<b>Outcomes adults</b> For details view p. 97
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**P2-4 ePOSTER SESSION** ▶ E-Poster 2 

<b>10:30–12:30</b> E-Poster 2	<b>Objective measures</b> For details view p. 99
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13:46–13:50	<b>S28-6</b>	Analysis of spatial hearing in “REAL-LIFE” conditions <i>Martin Lehmann (Bielefeld, Germany)</i>
13:50–13:54	<b>S28-7</b>	Cochlear implant users can benefit from a modest head orientation away from the speaker when attending to speech in noise <i>Jacques Grange (Cardiff, United Kingdom)</i>
13:54–13:58	<b>S28-8</b>	Binaural balanced tonotopy rehabilitation in a bilateral cochlear implanted recipient <i>Yannick Belouard (Angers, France)</i>
13:58–14:02	<b>S28-9</b>	Do envelope modulations disrupt binaural signals in bilateral cochlear implantees? <i>Matthew Goupell (College Park, United States)</i>
14:02–14:10	<b>S28-10</b>	Across-electrode integration of interaural time difference in bilateral cochlear-implant listeners <i>Bernhard Laback (Vienna, Austria)</i>
14:10–14:18	<b>S28-11</b>	Improving cochlear implant patients’ performance by interleaving the signal across ears <i>Justin Aronoff (Champaign, United States)</i>
14:18–14:22	<b>S28-12</b>	Paediatric unilateral implantation in an era of routine simultaneous bilateral implantation <i>Kate Hanvey (Birmingham, United Kingdom)</i>
14:22–14:26	<b>S28-13</b>	BAHA and CI in single side deafness <i>Jorge De Abajo (Pamplona, Spain)</i>
14:26–14:30	<b>S28-14</b>	The acoustical localization of monaurally and binaurally hearing CI users in a virtual reality <i>Daniel Visser (Munich, Germany)</i>

**WS2 BERNSTEIN SPARKS WORKSHOP**

▶ Vortragssaal der Bibliothek

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

13:30–14:00

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

14:00–14:30

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

14:30–14:45

**WS2-3**

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

**P1-8 ePOSTER SESSION**

▶ E-Poster 1

**13:30–15:00**

E-Poster 1

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

For details view p. 103

**P2-5 ePOSTER SESSION**

▶ E-Poster 2

**13:30–15:00**

E-Poster 2

**Cochlear implants around the world**

For details view p. 104

**HANDS-ON WORKSHOP VI**

▶ Hands-on Lab

**13:30–15:00**

Hands-on Lab

**Temporal bone***Instructors: Wolfgang Elsässer (Feldkirch, Austria)  
Joachim Müller (Munich, Germany)  
Gunesh Rajan (Fremantle, Australia)**Tutors: Simona Vögele (Munich, Germany)  
Christoph Reichel (Munich, Germany)*

	WS3	BERNSTEIN SPARKS WORKSHOP	► Vortragssaal der Bibliothek 
<b>14:45–16:30</b> Vortragssaal der Bibliothek		<b>Binaural hearing with electric stimulation – the “Munich Center for NeuroSciences – Brain and Mind” session</b>	
	<i>Chair:</i>	<i>Bernhard Seeber (Munich, Germany)</i>	
14:45–15:15	<b>WS3-1</b>	Binaural cochlear implant: models and issues <i>Steven Colburn (Boston, United States)</i>	
15:15–15:45	<b>WS3-2</b>	Improving sensitivity to interaural time differences with cochlear implants at high stimulation rates: insights from neural data <i>Kenneth Hancock (Boston, United States)</i>	
15:45–16:15	<b>WS3-3</b>	A bilateral cochlear implant sound coding strategy inspired by the medial olivocochlear reflex <i>Enrique Lopez-Poveda (Salamanca, Spain)</i>	
16:15–16:30	<b>WS2-4</b>	Questions & discussion: achieving binaural hearing with bilateral electrical stimulation	
	RT9	ROUND TABLE	► Philharmonie 
<b>15:00–16:30</b> Philharmonie		<b>Hearing &amp; structure preservation</b>	
	<i>Chair &amp; Moderation:</i>	<i>Sunil Dutt (Bangalore, India)</i> <i>Timo Stöver (Frankfurt/Main, Germany)</i>	
		Panel discussion	
	<i>Panelists:</i>	<i>Wolf-Dieter Baumgartner (Vienna, Austria)</i> <i>Robert Briggs (East Melbourne, Australia)</i> <i>Young Myung Chun (Seoul, Korea)</i> <i>Bruce Gantz (Iowa City, United States)</i> <i>Kevin Green (Manchester, United Kingdom)</i> <i>Thomas Lenarz (Hanover, Germany)</i> <i>Manuel Manrique (Pamplona, Spain)</i> <i>Harold Pillsbury (Chapel Hill, United States)</i> <i>J. Thomas Roland (New York, United States)</i> <i>Henryk Skarzynski (Warsaw, Poland)</i> <i>Hinrich Staecker (Kansas City, United States)</i> <i>Shin-Ichi Usami (Matsumoto, Japan)</i>	

## FRIDAY | JUNE 20, 2014

## DETAILED PROGRAM

17:28–17:32	<b>S34-8</b>	Establishment of a government funded cochlear implant program in Kerala – guidelines for efficient functioning <i>Manoj Puthiyaparambil (Calicut, India)</i>
17:32–17:36	<b>S34-9</b>	Improving cost-effectiveness of pediatric cochlear implantation before one year <i>Susan Abdi (Tehran, Iran)</i>
17:36–17:44	<b>S34-10</b>	Evaluation of cost-utility in middle ear implantation in the “Nordic School” a multicenter study in Sweden and Norway <i>Nadine Schart-Morén (Uppsala, Sweden)</i>
17:44–17:48	<b>S34-11</b>	10 years of cochlear implantation in India: trends and outcomes <i>Shalabh Sharma (New Delhi, India)</i>
17:48–17:52	<b>S34-12</b>	The DoD Hearing Center of Excellence – creating a hearing health improvement network <i>Mark Packer (Lackland, United States)</i>
17:52–17:56	<b>S34-13</b>	Transferrability of lean tools and methodologies to CI programs functioning in non-lean medical centers <i>Douglas Backous (Seattle, United States)</i>
		Panel Discussion <i>Panelists: Douglas Backous (Seattle, United States) Wolf-Dieter Baumgartner (Vienna, Austria) Lennart Edfeldt (Uppsala, Sweden) Bernard Gil Fraysse (Toulouse, France) Brian John McKinnon (Memphis, United States) Gerry O'Donoghue (Nottingham, United Kingdom)</i>

<b>WS4</b>	<b>BERNSTEIN SPARKS WORKSHOP</b>	▶ Vortragssaal der Bibliothek 
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<b>17:00–18:45</b>		<b>Improving speech perception with cochlear implants using model-based approaches</b>
Vortragssaal der Bibliothek	<i>Chair:</i>	<i>Bernhard Seeber (Munich, Germany)</i>
17:00–17:30	<b>WS3-1</b>	Towards a model based coding strategy for cochlear implants using spectral contrast enhancement <i>Waldo Nogueira Vazquez (Hanover, Germany)</i>
17:30–17:50	<b>WS3-2</b>	Anatomical and physiological parameters cause inter-individual variances in the neural representation of speech in cochlear implant users <i>Michele Nicoletti (Garching, Germany)</i>
17:50–18:20	<b>WS4-3</b>	A model of speech intelligibility in cochlear implant users <i>Volker Hohmann (Oldenburg, Germany)</i>
18:20–18:35	<b>WS4-4</b>	Questions & discussion: speech models and their application to cochlear implants
18:35–18:45	<b>WS4-5</b>	Closing words <i>Bernhard Seeber (Munich, Germany)</i>