



Hanse-Wissenschaftskolleg
Institute for Advanced Study

Workshop

of the HWK Postdoc Program

Computations in the Auditory Periphery

*Physiological Foundations and
Comparative Modelling*

Delmenhorst, 04-05 July 2022

Organizer:

Dr. Go Ashida (HWK Associate Junior Fellow/ University of Oldenburg)

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Venue:

Hanse-Wissenschaftskolleg
Institute for Advanced Study

Lemkuhlenbusch 4

27753 Delmenhorst

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Program

Monday, 04 July 2022

09:40 – 09:50	Greeting and Introduction
09:50 – 10:50	Title: TBA [Topic: Bridging AN physiology and modeling] <i>Laurel Carney, University of Rochester (Rochester NY, USA)</i>
10:50 – 11:10	<i>COFFEE BREAK</i>
11:10 – 12:10	Title TBA [Topic: Cat AN] <i>Peter Heil, Leibniz Institute for Neurobiology (Magdeburg, DE)</i>
12:20 – 13:20	Title TBA [Topic: Cat and rodent AN] <i>Philip Joris, KU Leuven (Leuven, BE)</i>
13:20 – 14:40	<i>LUNCH BREAK</i>
14:40 – 16:50	Title TBA [Topic: Joint session for gerbil AN] <i>Antoine Huet, University of Göttingen (Göttingen, DE)</i> <i>Amarins Heeringa, University of Oldenburg (Oldenburg, DE)</i>
16:50 – 17:10	<i>COFFEE BREAK</i>
17:10 – 17:25	Title TBA [Topic: Representation of Schroeder-phase harmonic stimuli] <i>Friederike Könitz-Steenken, University of Oldenburg (Oldenburg, DE)</i>
17:30 – 18:00	Title TBA [Topic: Processing of AN output in bushy cells] <i>Christian Keine, University of Oldenburg (Oldenburg, DE)</i>
18:00 – 18:30	General Discussion Questions from modelers to physiologists Questions from physiologists to modelers
18:30 – 20:00	<i>DINNER</i>

Tuesday, 05 July 2022

- 09:50 – 10:50 **Title TBA** [Topic: Carney-Bruce-Zilany model]
Ian Bruce, McMaster University (Hamilton, ON, Canada)
- 10:50 – 11:10 *COFFEE BREAK*
- 11:10 – 12:10 **Title TBA** [Topic: Meddis MAP model]
Tim Jürgens, Technische Hochschule Lübeck (Lübeck, DE)
- 12:20 – 13:20 **Title TBA** [Topic: Mouse AN model]
Gerard Encina-Llamas, Technical University of Denmark (Lyngby,DK)
- 13:20 – 14:40 *LUNCH BREAK*
- 14:40 – 15:40 **Title TBA** [Topic: Electric hearing model]
Waldo Nogueira, Hannover Medical School (Hannover, DE)
- 15:50 – 16:05 **Title TBA** [Topic: Gerbil AN modeling]
Fiona Teske, University of Oldenburg (Oldenburg, DE)
- 16:05 – 16:20 **Title TBA** [Topic: Combining two AN models]
Daniela Schwarz, University of Oldenburg (Oldenburg, DE)
- 16:20 – 16:50 **Title TBA** [Topic: AN model and binaural processing]
Jonas Klug, University of Oldenburg (Oldenburg, DE)
Mathias Dietz, University of Oldenburg (Oldenburg, DE)
- 16:50 – 17:10 *COFFEE BREAK*
- 17:10 – 18:30 **General Discussion**
Suggestions and requests from modelers to physiologists
Suggestions and requests from physiologists to modelers
How to facilitate collaboration between physiology and modeling
- 18:30 – 20:00 *DINNER*