



Society for the
Neural Control of Movement

NCM SATELLITE MEETING DETAILED DAILY PROGRAM

NCM Satellite Meeting, Dubrovnik, Croatia

April 26 & 27, 2020

All sessions will be held at the Valamar Lacroma Dubrovnik Hotel

The vestibular and oculomotor systems are inextricably linked in their design. Without proper eye movement control (motor), vestibular function is disrupted, and without vestibular signal (sensory), appropriate eye movement control is not possible in a moving organism. Although this interdependence has complex effects on visual stability, balance, and posture; the two systems can often seem simple in their basic architecture. For example, the vestibular apparatus is an engineering marvel for understanding signal processing and developing neural prostheses. Insults to the vestibular and oculomotor control streams produce profound effects on both behavior and perception (visual and vestibular) yet can also exhibit a resilient ability to recover. A deeper understanding of these systems, both intact and damaged, requires studies that bridge cellular and systems neurosciences and also incorporate behavioral, computational, and clinical efforts.

The satellite meeting will consider this range of topics through sessions focused on oculomotor control and vestibular processing in periphery and in the central nervous system, particularly in terms of their impact on action and perception.

The satellite is organized by Natela Shanidze, *The Smith-Kettlewell Eye Research Institute* and Neeraj Gandhi, *University of Pittsburgh*

Sunday April 26

17:00 – 19:00 Satellite Registration

18:30 – 20:30 Satellite optional dinner, Valamar Lacroma Hotel

Monday April 27

07:30 - 08:00 Registration

08:00 - 08:10 Welcome/Introduction, Natela Shanidze & Raj Gandhi

08:10 – 10:00 **Session 1: Sensory signals from the vestibular periphery to the CNS**

Discussion Leader: Pierre-Paul Vidal, *Paris Descartes University*

Speakers:

Anna Lysakowski, *University of Illinois at Chicago*

Larry Hoffman, *University of California Los Angeles*

Hans Straka, *Ludwig-Maximilians-Universität*

Hong Zhu, *University of Mississippi Medical Center*

Holly Holman, *University of Utah*



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- 10:00 – 10:15 **Coffee Break**
- 10:15 – 12:05 **Session 2: CNS signals: Vestibular reflexes, eye movements and motor learning**
Discussion Leader: Hans van der Steen, *Erasmus University Medical Center*
Speakers:
Paul MacNeilage, *University of Nevada, Reno*
Kathleen Cullen, *Johns Hopkins University*
Wu Zhou, *University of Mississippi Medical Center*
Andrea Green, *University of Montreal*
Chris de Zeeuw, *Netherlands Institute for Neuroscience*
- 12:05 – 14:15 Lunch and Satellite Meeting Poster Session
- 14:15 – 15:45 **Session 3: CNS signals: Perception and memory**
Discussion Leader: Lawrence Snyder, *Washington University*
Speakers:
Steve Lisberger, *Duke University*
Dora Angelaki, *New York University*
Jennifer Raymond, *Stanford University*
Paul May, *University of Mississippi Medical Center*
- 15:45 – 16:00 **Coffee Break**
- 16:00 – 17:30 **Session 4: Dysfunctional vestibular signals**
Discussion Leader: Richard Lewis, *Massachusetts Eye and Ear*
Speakers:
Yuri Agrawal, *Johns Hopkins University*
Courtney Stewart, *University of Michigan*
David Dickman, *Baylor University*
Mayu Takahashi, *Tokyo Medical and Dental University*
- 17:30 – 17:50 **Keynote introduction**
- 17:50 – 18:30 **Satellite Keynote**
Mike King, *University of Michigan*
- 19:30 – 21:30 **Opening Reception for Annual Meeting,**
Please Note: If you registered to attend the Satellite Meeting ONLY and want to attend the Annual Meeting welcome reception/dinner, tickets can be purchased at the registration desk.