

Acknowledgements

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The Department of Psychiatry at the Rogue Valley Medical Center

Asante Health System

The Smullin Health Education Center

The Virginia Merrill Bloedel Hearing Research Center

The Department of Physiology and Biophysics at the University of Washington

The Department of Otolaryngology at the University of Washington

*The Keck Center for Integrative Neuroscience at the University of California,
San Francisco*

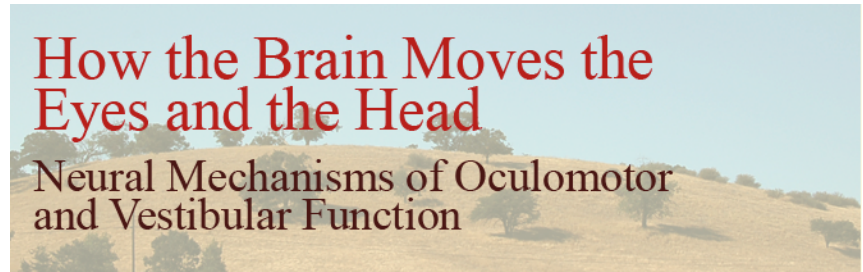
We would also like to thank the following individuals for their hard work on behalf of this conference.

Debra Amine

Susan Fuchs

Alice Hunt

Danna Kell



A Festschrift in Honor of Albert F. Fuchs

October 5, 6, 7, and 8

2008

Medford / Ashland Oregon

Program

Notes

Organizing Committee

Marc D. Binder, PhD
University of Washington

Ulrich R. Buttner, MD
University of Munchen

Chris R.S. Kaneko, PhD
University of Washington

Stephen G. Lisberger, PhD
University of California

W. Michael King, PhD
University of Michigan

James O. Phillips, PhD
University of Washington

Richard H. Phillips, MD
Rogue Valley Medical Center

OCTOBER 5

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

5:00

6:00

Registration and Welcome

(2:30-3:00)

Vestibular Control of Eye Movement

(3:00-5:30)

Opening Reception
Ashland Springs Hotel
(6:00-9:00)

October 5 Events:

Welcome (*Kent Brown, CEO of Rogue Valley Medical Center*)

2:50-3:00 PM – Smullin Health Education Center

Vestibular Control of Eye Movement (*Organizer: Mike King*)

3:00-5:30 PM – Smullin Health Education Center

3:00 *B. Cohen* Then and Now ... 40 Years of Eyes and Ears with Albert.

3:25 *K. Cullen* Central Vestibular Processing: Neural Coding and Multimodal Interactions.

3:50 *W. Michael King* Mysteries of the Linear VOR.

4:15 *D. Dickman* Recovery of Eye, Head and Gaze Control During Regeneration.

4:40 *J. Carey* Intratympanic Gentamicin and Clues to the Role of Type I Hair Cells in the Vestibulo-ocular Reflex.

5:05 *D. Angelaki* Processing of Vestibular Signals by the Cerebellar Nodulus and Ventral Uvula.

OCTOBER 6

7:00

*Continental Breakfast
Ashland Springs Hotel
(7:00-8:00)*

8:00

9:00

Saccadic Eye Movements
(9:00-12:00)

10:00

*Coffee Break
(10:30)*

11:00

12:00

*Lunch on Own
(12:00-2:00)*

1:00

2:00

Poster Session
(2:00-4:00)

3:00

4:00

Smooth Pursuit Eye Movements
(4:00-7:00)

5:00

*Coffee Break
(5:30)*

6:00

7:00

*Informal Barbecue
RoxyAnn Winery
(7:00)*

October 6 Morning Events:

Saccadic Eye Movements (Organizer: Chris Kaneko)
9:00-12:00 PM – *Smullin Health Education Center*

9:00 *C. Kaneko* Forty Years of Saccade Studies

9:30 *Y. Shinoda* Neural Circuit for Generation of Saccades in the Brainstem

10:00 *Y. Iwamoto* Driving Signals for Saccade Adaptation from the Superior Colliculus

*Coffee Break
10:30 AM*

11:00 *E. Keller* The Balance of Activity in FEF Accounts for Increases in Saccadic Reaction Time as a Function of the Number of Response Choices.

11:30 *R. Wurtz* Modulation of Visual Processing by Saccades

OCTOBER 6

7:00

*Continental Breakfast
Ashland Springs Hotel
(7:00-8:00)*

8:00

9:00

Saccadic Eye Movements
(9:00-12:00)

10:00

*Coffee Break
(10:30)*

11:00

12:00

*Lunch on Own
(12:00-2:00)*

1:00

2:00

Poster Session
(2:00-4:00)

3:00

4:00

Smooth Pursuit Eye Movements
(4:00-7:00)

5:00

*Coffee Break
(5:30)*

6:00

7:00

*Informal Barbecue
RoxyAnn Winery
(7:00)*

October 6 Afternoon Events:

Poster Session

2:00-4:00 PM – *Smullin Health Education Center*

Smooth Pursuit Eye Movements (Organizer: Steve Lisberger)

4:00-7:00 PM – *Smullin Health Education Center*

4:00 *S. Lisberger* The flocculus: 1971-2008

4:30 *F. Miles* The Visual Processing Underlying the Initial Ocular Following Response

5:00 *M. Shadlen* P'ing and Time: Aging, Urgency and Probability.

*Coffee Break
5:30 PM*

6:00 *K. Fukushima* Visual Motion-Memory and Predictive Pursuit: Comparison of SEF and FEF.

6:30 *M. Mustari* Signal Identification in Parallel Cortical-Pontine Pathways for Smooth Pursuit.

OCTOBER 7

7:00

*Continental Breakfast
Ashland Springs Hotel
(7:00-8:00)*

8:00

9:00

Motor Units
(9:00-10:40)

10:00

Coffee Break
(10:30)

11:00

Cerebellar Control of Gaze I
(11:10-12:00)

12:00

Box Lunches
(12:00-1:00)

1:00

Cerebellar Control of Gaze II
(1:20-3:00)

2:00

3:00

**Coordination of Head and Eye
Movements**
(3:30-5:10)

4:00

5:00

6:00

7:00

*Conference Banquet
Ashland Springs Hotel
(7:00)*

October 7 Morning Events:

Motor Units (*Organizer: Mark Binder*)

9:00-10:40 AM – *Smullin Health Education Center*

9:00 *M. Binder* Introduction

9:10 *J. Büttner-Ennever* Regional and Functional Segregation of Extraocular Motoneurons

9:35 *B. Torres* Contribution of the Intrinsic Membrane Properties and Cholinergic Synaptic Inputs to Firing Properties in Rat Oculomotor Nucleus Motoneurons

10:00 *P. Dean* Modeling Recruitment of Ocular Motoneurons: Implications for Eye-Movement Control

Coffee Break

10:30 AM

Cerebellar Control of Gaze (*Organizer: Ulrich Büttner*)

11:10-12:00 PM (Part I) – *Smullin Health Education Center*

11:10 *N. Barmack* Cerebellar Climbing and Mossy Fibers: Distinct Contributions to Regulation of Purkinje Cell Simple Spikes.

11:35 *D. Zee* Saccade Adaptation: Implications for Cerebellar Function.

OCTOBER 7

7:00	<i>Continental Breakfast Ashland Springs Hotel (7:00-8:00)</i>
8:00	
9:00	Motor Units (9:00-10:40)
10:00	Coffee Break (10:30)
11:00	Cerebellar Control of Gaze I (11:10-12:00)
12:00	Box Lunches (12:00-1:00)
1:00	Cerebellar Control of Gaze II (1:20-3:00)
2:00	
3:00	Coffee Break (3:00 PM)
	Coordination of Head and Eye Movements (3:30-5:10)
4:00	
5:00	
6:00	
7:00	<i>Conference Banquet Ashland Springs Hotel (7:00)</i>

October 7 Afternoon Events:

Cerebellar Control of Gaze (Organizer: Ulrich Büttner)
1:20-3:00 PM (Part II) – *Smullin Health Education Center*

1:20 *R. Soetedjo* Complex Spikes: Rarely Appeared, but Instructive.

1:45 *Y. Kojima* Effect of local inactivation of inhibitory interneurons or Purkinje cells in oculomotor vermis on saccade adaptation.

2:10 *R. Robinson* Cerebellar Saccade Slowing Depends on a Signal that Crosses the Vermis Midline.

2:35 *U. Büttner* Different Functions of Saccade Related Fastigial Nucleus Neurons.

Coffee Break
3:00 PM

Coordination of Head and Eye Movements (Organizer: Jim Phillips)
3:30-5:10 PM – *Smullin Health Education Center*

3:30 *J. Phillips* Coordination of Eye and Head Movement Following Loss of Modulated Vestibular Input From the Semicircular Canals

3:50 *L. Goffart* The Caudal Fastigial Nucleus and the Control of Gaze Orientation : Lessons from Perturbation Experiments in the Cat and Monkey

4:10 *E. Freedman* Long-Lead Burst Neuron Activity during Coordinated Eye-Head Movements.

4:30 *S. Newlands* Coordination of Vestibular Afferent and Corollary Discharge (Eye Position) Signals During Translation.

4:50 *G. Paige* Integration and Adaptation Across Oculomotor and Sensory Spatial Representations.

OCTOBER 8

7:00	<i>Continental Breakfast</i>
8:00	<i>Ashland Springs Hotel</i>
9:00	<i>(7:00-8:00)</i>
10:00	
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9:00	

Bus Transportation Schedule

October 5th	
Ashland Springs Hotel to Smullin Center	2:30 PM
Smullin Center to Ashland Springs Hotel	6:00 PM
October 6th	
Ashland Springs Hotel to Smullin Center	8:00 AM
Smullin Center to Ashland Springs Hotel	12:00 PM
Ashland Springs Hotel to Smullin Center	1:30 PM
Smullin Center to RoxyAnn Winery	7:30 PM
RoxyAnn Winery to Ashland Springs Hotel	7:45 PM
October 7th	
Ashland Springs Hotel to Smullin Center	8:00 AM
Smullin Center to Ashland Springs Hotel	5:30 PM