

## STUDY GROUP SESSION

**Title:** MR Flow & Motion Quantitation

**Day:** Thursday, 27 April 2017

**Time:** 13:00 - 15:00

**Room #:** Rm 317AB

**Study Group** Chair, Tino Ebbers, Ph.D.; Vice Chair, Alex J. Barker, Ph.D.; Secretary, Alistair A. Young, Ph.D.; Past Chair, David Saloner, Ph.D.

**Committee:** Trainee Representative, Pim van Ooij, Ph.D.

**2017-2018 Incoming Committee :** Secretary, Kevin Michael Johnson, Ph.D.; Trainee Representative, Merih Cibis, Ph.D.; SMRT Representative, Eugen Hlasny, M.R.T.(R)(MR)

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	Talk titles	Requested Speaker
13:00	Introduction - Welcome & Business Meeting	Tino Ebbers, Ph.D. Linköping University, Sweden
	<b>Novel Flow &amp; Motion MRI Techniques on the Verge of Clinical Adaptation</b>	
13:15	Translating DENSE to the Clinic	Frederick H. Epstein, Ph.D. University of Virginia, USA
13:25	Translating Quantitation of Valvular Disease with 4D Flow MRI	Jos J.M. Westenberg, Ph.D. Leiden University Medical Center, The Netherlands
13:35	Our Experience Reimbursing 4D flow MRI in the Clinic	Christopher Jean-Pierre François, M.D. University of Wisconsin-Madison, USA
13:45	Poster Power Pitches	
14:25	Refreshments and Traditional & Electronic Poster Review	
15:00	Adjournment	
	<b>Poster Power Pitches</b>	
	<i>Automated 4D Flow Conservation Utilizing Adjacency Matrices</i>	Carson A. Hoffman, B.Sc. University of Wisconsin-Madison, USA
	<i>Motion-Resolved 5D Imaging of the Heart: Time to get Rid of the ECG?</i>	Lorenzo Di Sopra, M.Sc. University Hospital of Lausanne, Switzerland
	<i>Feature-Tracking for Volume &amp; Strain with Subtly Tagged SSFP</i>	Eric M. Schrauben, Ph.D. The Hospital for Sick Children, Canada
	<i>Effect of Field Strength &amp; Spatial Resolution on Quantifying Intracranial Hemodynamics with PEAK-GRAPPA Accelerated Dual-Venc 4D Flow MRI</i>	Susanne Schnell, Ph.D. Northwestern University, USA
	<i>An MRI Phantom Study to Assess the Effects of Localized Stiffness on Aortic Hemodynamics</i>	Khalil Rachid, M.Sc. University of Paris Sud, CNRS, France
	<i>Accelerated Cardiac Cine "Watermark" MRI Provides Cardiac Function Via Magnitude Cine &amp; 2D Myocardial Strain Via Spatially Modulated Phase</i>	Ronald J. Beyers, Ph.D. Auburn University, USA
	<i>Temporal Variation of Cerebrovascular Transit Time Measured by BOLD-Based Time Lag Mapping</i>	Toshihiko Aso, M.D., Ph.D. Kyoto University, Japan
	<i>Distribution of 4D Flow MRI-Derived Wall Shear Stress &amp; Oscillatory Shear Index &amp; Its Relation with the Ascending Aorta Dilation in Bicuspid Valve Patients</i>	Lydia Dux-Santoy Hospital Universitari Vall, Spain
	<i>Comparison of SENSE, GRAPPA, SPIRiT &amp; ESPIRiT for Accelerated 4D Flow MRI Imaging</i>	Xiaole Wang, B.Sc. Tsinghua University, China

*An Automatic Method to Estimate 3D Pulse Wave Velocity from 4D-flow MRI Data*

Joaquín Mura, Ph.D.  
Pontificia Universidad Catolica de Chile, Chile

*4D Flow MRI & Lumped Parameter Modelling for Subject-Specific Assessment of Cardiovascular Function*

Tino Ebbers, Ph.D.  
Linköping University, Sweden

*Respiratory Changes in Pulmonary Flow Distribution in Fontan Circulation Using “5-D” Flow MRI*

David Rutkowski, B.Sc.  
University of Wisconsin-Madison, USA

*Bootstrapped Estimates of Velocity Uncertainty for 4D Flow PC-MRI*

Michael W Loecher, Ph.D.  
University of California at Los Angeles, USA

*The Magnitude of Static Phantom Corrections for Velocity Encoded Phase Contrast Cine MRI & Clinical Importance*

Evan Nelson, M.D.  
NIH, USA

*MRI-Based Fluid Structure Interaction Simulation of the Bicuspid Aortic Valve Using Native Non-linear Valve Properties*

Alex J. Barker, Ph.D.  
Northwestern University, USA