STUDY GROUP SESSION

Title: Interventional MR
Day: Thursday, 27 April 2017
Time: 08:15 - 10:15
Room #: Rm 323ABC

Study Group Chair, David A. Woodrum, M.D., Ph.D.; Vice Chair, Eugene Kholmovski, Ph.D.; Secretary, Clare Tempany-Afdhal, M.D.;
Committee: Trainee Representative, Thiele Kobus, Ph.D.; Past Chair, Ergin Atalar, Ph.D.
2017-2018 Incoming Committee: Secretary, Allison H. Payne, Ph.D.; Trainee Representative, Hans Weber, Ph.D.

8:15 Introduction - Welcome & Business Meeting
8:30 Student Abstract Oral Presentations

**Evaluation of Cardiac Magnetic Resonance Thermometry in Patients**
Valery Ozenne, Ph.D.
IHU-LIRYC, PTIB, France

**MRI-Based Myocardial Ablation Lesion Extent Relates to Area of Voltage Reduction in MR-Guided Electroanatomical Voltage Maps**
Philippa R. P. Krahn, B.Sc.
Sunnybrook Health Sciences Centre, Canada

**Efficiency Improvement in Multi-Point MR Acoustic Radiation Force Impulse Imaging**
Henrik C.A. Odéen, Ph.D.
Utah Center for Advanced Imaging Research, USA

**Overcoming Limitations of Virtual Observation Points in pTx using IMPULSE**
Mihir Pendse, M.Sc.
Stanford University, USA

**2D Multi-Spectral Thermometry for Monitoring Focused-Ultrasound Sonications Near Metallic Hardware**
Hans Weber, Ph.D.
Stanford University, USA

**Operator Controlled Illumination of Active Catheter Tips using a Variable Attenuator**
Ali C. Özen, Ph.D.
University Medical Center Freiburg, Germany

**MRI-Guided Robotic Arm (MgRA) to Target Deep Brain Nuclei In Vivo**
Yi Chen, M.Eng.
Max Planck Institute for Biological Cybernetics, Germany

**Toward hybrid MR Thermometry in Aqueous & Adipose Tissue using Simultaneous Dual Contrast Weighting with Double Echo RARE Imaging**
Lukas Winter, Ph.D.
Max-Delbrück Center for Molecular Medicine, Germany

9:15 Traditional & Electronic Poster Session
10:00 Award Ceremony & Closing Remarks
10:15 Adjournment

Electronic Poster Presenters

**MR-Guided Mixed-Reality For Surgical Planning: Set-Up & Perceptual Accuracy**
Subashini Srinivasan, Ph.D.
Stanford University, USA

**PRF Temperature & Velocity Mapping of Complex Fluid Flow Inside a Pin Fin Heat Exchanger**
Waltraud B. Buchenberg, Dipl.-Phys.
University Medical Centre, Germany

**Real-Time Motion Prediction for Feedback Control of MRI-Guided Interventions**
Xinzhou Li, B.Sc.
University of California at Los Angeles, USA

**Quantitative Evaluation of Thermochemical Ablation Injections in Bovine Liver Phantoms using $^{23}$Na MRI**
Tobias Theis, B.Sc.
Universität Heidelberg, Germany

**Inline Adaptive Spiral Off-Resonance Correction for MRI-Guided Interventions**
Matthew C. Restivo, Ph.D.
National Institutes of Health, USA

Traditional Poster Presenters

**2D UTE-Based MR Thermometry of Frozen Tissue: Feasibility During In Vivo MRI-Guided Cryoablation**
Christiaan G. Overduin, M.Sc.
Radboud University Medical Center, The Netherlands

**Active Catheter Tracking for MR-Guided Percutaneous Coronary Intervention at 3T: Initial Results in a Pig Model**
Simon Reiss, M.Sc.
Universitätsklinikum Freiburg, Germany
Artifact-Reduced Imaging of Biopsy Needles with 2D Multi-Spectral Imaging
Hans Weber, Ph.D.
Stanford University, USA

Multiparametric Comparison of Quantitative Susceptibility Mapping, $R_2^*$, & $89Zr$-PET for Quantification of Targeted Magnetic Drug Therapy Biodistribution
Caroline D. Jordan, Ph.D.
University of California at San Francisco, USA

Dynamic Anti-Aliasing Image Reconstruction for Localized Thermal Therapies
Henrik C.A. Odéen, Ph.D.
Utah Center for Advanced Imaging Research, USA

Treatment for Spontaneous Intracranial Hypotension: First Experience with
Jorge A. Lee Diaz, M.D.