

**F. Joseph Halcomb III, MD Department of Biomedical Engineering
Spring 2019 Seminar Series**

**Fridays at 3:00 pm unless otherwise stated*
Robotics and Manufacturing Building, Room 323**

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| January | 18 | Guigen Zhang , Chair and Professor, UK BME, "Becoming Imaginative: Enhancing Your Human Capital through the Pursuit of Science and Engineering Guided by Logic and Philosophy." |
| | 25 | Amir Al-Bakrei , PhD Student, UK BME, "Modeling Spikes and Other Transients to Improve the Accuracy of Detection of High Frequency Oscillations."
Scott Thalman , MD, PhD candidate, UK BME, "Arterial Spin Labeling- What It Is; Why It's Important; and How It can be Better." |
| February | 1 | George Pantalos , Professor, Cardiothoracic Surgery, University of Louisville, "Adventures of a Cardiovascular Explorer- With and Without Gravity." |
| | 8 | Brad Hubbard , PhD, Spinal Cord and Brain Injury Research Center, UK, "Experimental Modeling of Blast-Induced Neurotrauma: Insights and Approaches." |
| | 15 | Brandon Miller , MD, PhD, Pediatric Neurosurgery, UK, "Mechanisms of Brain Injury after Neonatal Intraventricular Hemorrhage." |
| | 22 | Joseph Zwischenberger , MD, FACS, Chair, Department of Surgery, UK, TBD.
Dongfang Wang , MD, Professor and Director of Artificial Organ Laboratory, College of Medicine, UK, TBD. |
| March | 1 | Mark Fritz , MD, Professor, Department of Otolaryngology-Head and Neck Surgery, UK, "Re-engineering the Larynx-Restoring Voice, Airway, and Swallowing" |
| | 8 | Ahmed Bahrani , MS, PhD candidate, UK BME, "Cerebrovascular Disease: Methods of Diagnosis."
Javad Mollakazemi , PhD Student, UK BME, "Target Frequency Band of Cognition and Tempo of Music: Cardiac Synchronous EEG." |
| | 22 | David Pienkowski , Associate Professor, UK BME, "Everything You Always Wanted to Know about Abstract Preparation (but were afraid to ask)." |
| | 29 | Lei Chen , Assistant Professor, Physiology and Spinal Cord and Brain Injury Research Center, UK, "Restoration of the Damaged CPU." |
| April | 5 | Siavash Mazdeyasna , PhD Student, UK BME, "Noncontact 3D Optical Imaging of Blood Flow Distributions in Tissues with Arbitrary Geometries."
Mingjun Zhao , Research Assistant, UK BME, "Mapping Tissue Optical Properties and Hemodynamics using Noncontact Speckle Contrast Diffuse Correlation Tomography." |
| | 12 | Chase Haddix , PhD Student, UK BME, "Neural Correlates of Graded Movement and Motor Imagery."
Dillon Huffman , PhD Student, UK BME, "Non-Invasive Manipulation of REM Sleep in Mice Through Automated Vibro-Tactile Stimulation." |

***NOTE DIFFERENT LOCATION, DAY AND/OR TIME**

- 19 **Dibya Biswal**, PhD Student, UK BME, "Regular Camera in Daily Healthcare."
Matt Ballard, MS Student, UK BME, "Biomechanical Effects of a Hip Orthosis on Lumbo Pelvic Coordination and Brian Activity Changes Detected with EEG."