

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