

UK College of Engineering Biomedical Research Day

Thursday, April 21, 2016

Lexington Convention Center

Thoroughbred 5

Chair: Babak Bazrgari, PhD

8:00 - 10:15 am: CCTS Programs

10:30 - 11:45 am: Student Presentations

Session Chairs: Bradley Berron, PhD and Christine Trinkle, PhD

“The Effects of Extracellular Cholesterol Elevations and Membrane Fluidity Changes on the Fluid Shear Stress Control of Mac1-Dependent Neutrophil Adhesion”

M. L. Akenhead et al.

“Design and Fabrication of a Novel Microfluidic Platform for 3D Cell Culture Using Engineered Superhydrophobicity”

S. Torabi et al.

“MEBook: Multimedia Social Gatherings Intervention for Children with Autism Spectrum Disorders”

N. Uzuegbunam et al.

“Closed-Loop Afferent Nerve Stimulation for Rehabilitation of Hand Grip in Motor Incomplete Spinal Cord Injured Subjects”

C. S. Schildt et al.

“Timing Aspect of the Lumnopelvic Rhythm in Forward Bending and Backward Return”

M. Vazirian et al.

12:00 - 1:30 pm: CCTS Programs

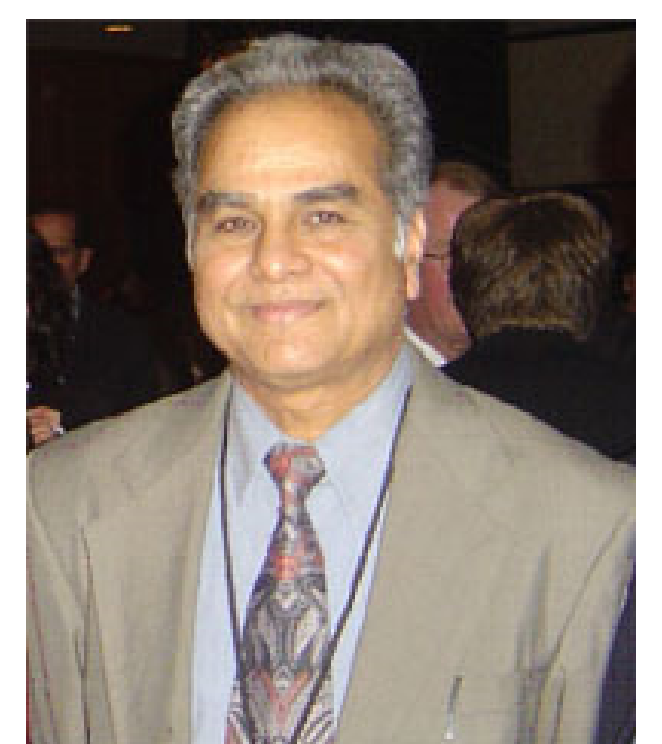
1:45 - 3:15 pm: Invited Presentations

Session Chairs: David Pienkowski, PhD and Babak Bazrgari, PhD

Keynote: “Design, Development and Evaluation of Innovative Fusion Augmenting Spinal Hardware”

Professor Vijay K. Goel, PhD

Distinguished University Professor, Endowed Chair &
McMaster-Gardner Professor of Orthopaedic Bioengineering,
University of Toledo



“Pre-clinical Testing of a Novel, Injectable, Tissue Modifying Device for the Treatment of Spinal Disc Degeneration and Associated Low Back Pain”

Dr. Thomas Hedman, Department of Biomedical Engineering, University of Kentucky

“Computational Modeling of Cardiac Mechanics: Insights into Disease and Treatment Strategies”

Dr. Jonathan Wenk, Department of Mechanical Engineering, University of Kentucky

3:30 - 5:30 pm: Poster Session

In Conjunction with:

**UK Center for Clinical and
Translational Science
11th Annual Spring Conference**



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