

UK College of Engineering Biomedical Research Day

Thursday, March 30, 2017

Lexington Convention Center

Thoroughbred 5

Chair: Babak Bazrgari, PhD

10:00 - 11:45 am: Student Presentations

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

- 10:00 - 10:15 am:** “Noncontact 3-dimensional Speckle Contrast Diffuse Correlation Tomography of Tissue Blood Flow Distribution”
C. Huang (Research Scientist)
- 10:15 - 10:30 am:** “Biomechanics of Surgical Breast Reconstruction”
K. Sebastian (Undergraduate Student)
- 10:30 - 10:45 am:** “Mechanical Demands Imposed on the Lower Back by Manual Material Handling Tasks in Patients with Acute Low Back Pain”
I. Shojaei (Graduate Student)
- 10:45 - 11:00 am:** “Modeling the Oxidative Consumption of Curcumin from Controlled Released Poly (beta amino ester) Microparticles in the Presence of a Free Radical Generating System”
C.T. Jordan (Graduate student)
- 11:00 - 11:15 am:** “A Brain-Machine Interface for Closed-Loop Peripheral Nerve Stimulation to Improve Hand Function in Spinal Cord Injury Patients”
S.H. Thomas (Graduate student)
- 11:15 - 11:45 am:** Short presentations of select posters

1:45 - 3:15 pm: Invited Presentations

Session Chair: Sridhar Sunderam, PhD

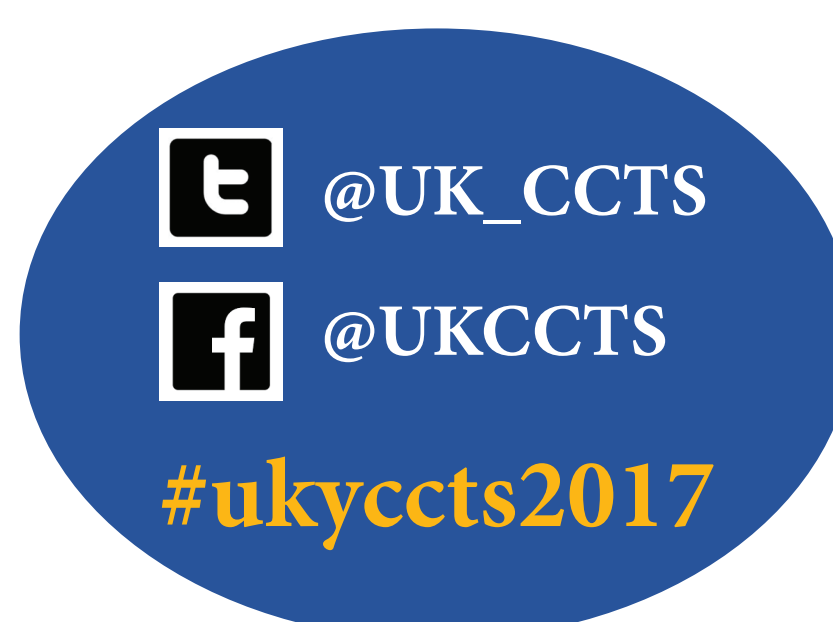
- 1:45 - 2:45 pm:** Keynote: “Robotic rehabilitation and its effect on human motor control: Challenges and opportunities”
Professor Juergen Konczak, PhD
Director of Center for Clinical Movement Science, University of Minnesota
- 2:45 - 3:00 pm:** “Integrating Multimedia into Autism Interventions”
Professor Samson Cheung, Department of Electrical and Computer Engineering, University of Kentucky
- 3:00 - 3:15 pm:** “Brain-Machine Interfaces for Sensorimotor Rhythm Modulation”
Professor Sridhar Sunderam, Department of Biomedical Engineering, University of Kentucky


3:30 - 5:30 pm: Poster Session

Session Chair: Martha E Grady, PhD

In Conjunction with:

 Center for Clinical and
Translational Science
12th Annual Spring Conference



 College of
Engineering