



Ohio Orthopaedic Research and Innovation Day (OORID)

Thursday, June 2, 2011

156 Student Union
Wright State University
3640 Colonel Glenn Highway
Dayton, OH 45435

Agenda – Oral Presentations (all presentations will be 12 min long, with 3 min time for Q/A). Please load your presentation on the computer during the break and speak with the Session Moderators.

Time	Activity	
8:00 - 8:50	Registration and Networking	
8:50 - 9:00	Opening Address, Dr. Steven Angle, Provost, Wright State University	
9:00 - 10:15	Presentations (Session Moderator: Dr. Timothy Norman and Dr. David Kirschman)	
	Speaker(s)	Topic
9:00 - 9:15	Amy Yousefi	Biomimetic Constructs for Cartilage Regeneration and Cartilage Replacement
9:15 - 9:30	Lei Kerr and Huiying Jia	Anodized TiO ₂ Nanotube Film for Controllable Drug Delivery in the Implant
9:30 - 9:45	Dishita Patel	Influence of Design Parameters on Cup-Stem Orientations for Impingement free RoM in Hip Implants
9:45 - 10:00	S.Hueston, I.Mabe, M.Makola	Morphometry Analysis and Kinematic Response of the Cervical Spine
10:00 - 10:15	Rinki Goswami	Characterizing the Effects of Bromelain on the Mechanical Properties of Bovine Articular Cartilage
10:15 - 10:30	Coffee Break	
10:30 - 12:00	Presentations (Session Moderator: Dr. John Cotton and Dr. John Elias)	
	Speaker(s)	Topic
10:30 - 10:45	Sasidhar Uppuganti	In-Vitro Biomechanical Stability of Trans-Sacral L5-S1 Fusion
10:45 - 11:00	Nagmesh Kumar	In-Vitro Biomechanical Analysis of Cervical Open Door Laminoplasty
11:00 - 11:15	Mary Beth Wade	Mechanically Enhanced, Peptide Cross-linked Poly(ester ureas) for Critical Bone Defect Repair
11:15 - 11:30	Samuel Dwomoh	Biomechanical Evaluation of Annular Closure with Polyisobutylene Cyanoacrylate

11:30 - 11:45	Kushal Shah	All-Epiphyseal ACL Reconstruction Improves Tibiofemoral Contact
11:45 - 12:00	Timothy Norman	In-Service Damage Accumulation and Mineralization Heterogeneity in Human Femoral Cortical Bone
12:00 - 1:15	Quick Lunch Break + Keynote presentation	
12:15 - 1:15	Keynote Presentation Medical Polymers – Evolution and Future and Gender Specific Implants, Melinda S. Peiserich, Zimmer Inc., Warsaw Indiana, Moderated by Alan Litsky, MD	
1:15 - 2:15	Case Studies in Orthopaedic Surgery (Coordinated by: Richard Laughlin, MD; Anil Krishnamurthy, MD)	
1:15 - 1:45	Current Concepts in Total Hip and Knee Arthroplasty "Zero in on Zero" <i>New Horizons in Quality and Safety</i>, Mark A Snyder, MD, Sambhu Choudhury, MD, Kathryn Eten, BSN, CCM	
1:45 - 2:15	Other Cases will be presented	
2:15 - 3:15	Presentations (Session Moderator: Dr. Amy Yousefi and Dr. Juay Seng Tan)	
	Speaker(s)	Topic
2:15 - 2:30	David Kirschman, MD	In vivo and In vitro biomechanical performance of a Novel Pedicle Screw System: A Two-year Retrospective Analysis
2:30 - 2:45	Michael Lawrenchuk	Innovations in Medical Image Processing for the Design of Custom Medical Devices and Implants
2:45 - 3:00	Shirish Ingawale	Subject-specific Modeling and Finite Element Assessment of Mandible and the TMJ Implant
3:00 - 3:15	J. Adam Hamilton, John Dundon	The Cannulated Screw Core: Improving the Mechanical Properties of Cannulated Screws
3:15 - 3:30	Break	
3:30 - 5:15	Presentations (Session Moderator: Adam Hamilton, MD and Sambhu Choudhury, MD)	
	Speaker(s)	Topic
3:30 - 3:45	John Cotton	Mechanical modeling of the porcine temporomandibular joint
3:45 - 4:00	Brian Yeakley	Increased Aircrew Helmet Protection
4:00 - 4:15	Archana Saranathan	A System for Characterization of In Vivo Patellofemoral Motion
4:15 - 4:30	Matthew Coombs	Spinal Hemiepiphysiodesis: Initial Biomechanical Conditions that Modify Growth
4:30 - 4:45	Greg Gould	Research at Wright State's Biomechanical Lab
4:45 - 5:00	Bradley Elliott	Hip Implant Micromotion and Resulting Femoral Canal Damage for Several Implant Materials
5:00 – 5:15	Erik Kane	Three Dimensional Finite Element Analysis of Intramedullary Nails for Size