2003 Summer Bioengineering Conference Student Paper Awards

B.S. Level Competition

Category	Place	Award Winner	Title	Institution
Overall	1	Patricia Arauz	Collagen and Hydroxyapatite Incorporation into Poly(ethylene glycol) Hydrogels for Orthopedic Applications	St Louis U
	2	Casey Korecki	Effect of Vitamin D Receptor on Bone Growth and Strength During Gestation	U of Notre Dame
	3	Crystal Ripplinger & David Schneider	Optically-Based Control of a Prosthetic Device	North Dakota State U
	HM	Lindsay Godin	Characteristics of Intracellular Calcium Oscillations in Osteoblastic Cells During Repetitive Loading Conditions	Michigan Technological U
	HM	Theresa Sukal	Restoration of Finger Function in Hemiparetic Stroke Patients Using Goal-Directed Therapy: Coordination Station	Catholic U of America

M.S. Level Competition

Category	Place	Award Winner	Title	Institution
Solids, Design, & Rehabilitiation	1	Allyson Ianuzzi	Facet Joint Capsule Strains of Human Lumbar Spine Specimens During Physiology Motions	State U of New York - Stony Brook
	2	Venkata Gade	Variation of Reposition Sense of the Lumbar Spine with Torso Flexion and Moment Load	U of Kansas
	3	Hanna Isaksson	Mathematical Modeling of Stress Sheilding with Bioresorbable Materials for Internal Fracture Fixation	U Rochester
	HM	Hiroshi Yamada	Finite Element Analysis of Cultured Endothelial Cell under Pure Uniaxial Stretch: Effect of Cell Shape on Strain Distribution	Kyushu Inst of Technology
	HM	David McNeal	Experimental Investigation of Finger Dynamics Before and After MCP Joint Arthroplasty	U of Illinois - Chicago
Fluids, Heat Transfer, and Tissue Engineering	1	Bo Chao	Cryosurgery of Normal and LNCaP Pro 5 Human Prostate Tumor Tissue in the Dorsal Skin Flap Chamber	U of Minnesota
	2	Joan Greve	The Use of Magnetic Resonance Angiography to Directly Assess Arteriogenesis in Mice	Stanford U
	3	Candace Gildner	Fibronectin Polymerization Enhances the Tensile Mechanical Properties of Cell-Imbedded Collagen Gels	U of Rochester
	HM	Vijaykalyan Yeluri	Performance Assessment of Photon Attenuation Correction in a New Hybrid PET/CT Scanner	Florida International U
	HM	Kelley Dwyer	Inhibition of Peripheral Nervous System Alters Ligament Healing	U of Wisconsin

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Doctoral Level Competition - Poster

Category	Place	Award Winner	Title	Institution
Biofluids and Heat Transfer	1	Joy Ku	Comparison of Blood Flow Patterns from CFD and MRI in a Bypass Graft Model	Stanford U
	2	James Costello	The Role of Local Hemodynamics upon Short-Term Graft Healing of Porous ePTFE Implanted within a Baboon	Georgia Inst of Technology/Emory U
	3	Ryo Sudo	Coordinated Contraction of Bile Canaliculi Reconstructed in Rat Small Hepatocytes	Keio U
	HM	Heather Himburg	The Effect of Early Intimal Growth on Patterns of Evans Blue Dye in Macromolecular Transport Studies	Duke U
	HM	Renn-Chan Ooi	Fluid-Structure Interaction (F.S.I.) of the Human Cystic Duct	U of Sheffield
	HM	Zoya Gordon	Analysis of Feto-Plaacental Vasculature and Blood Circulation	Tel Aviv U
Solids, Design, & Rehabilitation	1	Janet Tapper	Joint Surface Velocity Changes after Ligament Transection in an Ovine Stifle Joint Model of Osteoarthritis	U of Calgary
	2	Wei Sun	Numerical Simulations of the Planar Biaxial Mechanical Behavior of Biological Materials	U of Pittsburgh
	3	Chi Hyun Kim	PTH Enhances and Sustains Mechanical Responsiveness of Trabecular Bone	Coiumbia U
	HM	Brian Ruiz-deLuzuriaga	P38 Mitogen Activated Protein Kinase Regulates Mechanically-Induced Nitric Oxide and Prostaglandin Production in Articular Cartilage	Duke U
	HM	Michelle Zec	The Accumulation of Damage Under Cyclic Loading is Not Altered Following Traumatic Strain in the Rabbit MCL	U of Calgary
Tissue and Cellular Biomechanics & Imaging	1	Holly Leddy	Molecular Diffusion in Tissue- Engineered Cartilage Constructs: Effects of Time and Culture Conditions	Duke U
	2	Michael Ominsky	Effects of Oscillatory and Pulse-Static Shear on Activation of NF-kB, c-fos, and SRF in MC3T3 Osteoblast-Like Cells	U of Michigan
	3	Sandy Williams	Small Diameter Vascular Graft Tissue Engineering and Bioreactor Technology	Georgia Inst of Technology
	HM	Yunlong Liu	Evaluation of Regulatory DNA Regions for Matrix Metalloproteinase Expression	Indiana U - Purdue U Indianapolis
	HM	Sabina Bruehlmann	A New Technique to Investigate In Situ Collagen Micromechanics in the Annulus Fibrosus under Tension	U of Calgary