

### Spring 2008 President's Undergraduate Research Awards (PURA)

	Student Name	Major	Mentor Name	Mentor School	Paper Title	Type
<b>COA</b>						
	Macy, Matthew	BIOL	Freeman, Jason A	COA	An Interactive Cinema Installation	Salary
<b>COE</b>						
	Chiew, Jonathan	AE	Sankar, Lakshmi N	AE	A CFD-Based Approach to Coaxial Rotor Hover Performance Using Discrete Blade Modeling	Salary
	Seelhorst, Michael	AE	Lieuwen, Timothy Charles	AE	Turbulent Flame Speed Measurements and Modeling of Syngas Fuels	Salary
	Verma, Siddhartha	AE	Menon, Suresh	AE	Study of supersonic combustion in Scramjet engines	Salary
	Abrahamson, Joseph	BME	Bellamkonda, Ravi Venkat	BME	The impact of activated microglia on synaptic loss: an in vitro model.	Salary
	Chan, Alice	BME	Bellamkonda, Ravi Venkat	BME	Novel nano-probes for early breast cancer diagnosis	Salary
	Chan, Leslie	BME	Bellamkonda, Ravi Venkat	BME	Novel Nanoscale Agent for Mammography: Probing Tumor for Patient Specific Breast Cancer Therapy	Salary
	Chung, Andy	BME	Bellamkonda, Ravi Venkat	BME	Peripheral Nerve Regeneration Through Nerve Guidance Channels	Salary
	Curt, Paul	BME	Santangelo, Philip J	BME	Development of RNA imaging probes for the interrogation of Respiratory Syncytial Virus	Salary
	Erdman, Christopher	BME	Boyan, Barbara D	BME	Cells using Resveratrol, Nicotinamide, and Isonicotinamide	Salary
	Goldman, Stephen	BME	Yoganathan, Ajit	BME	Accurate Continuous Hemofiltration in Extracorporeal Membrane Oxygenation (ECMO)	Salary
	Gupta, Vedant	BME	Boyan, Barbara D	BME	Lysophosphatidic Acid Signaling in Growth Plate Chondrocytes	Salary
	Li, Weiwei Aileen	BME	Bao, Gang	BME	Early tumor detection using a novel magnetic iron oxide nanoparticle	Salary
	Liou, Monica	BME	Boyan, Barbara D	BME	Membrane Estrogen Receptor Silencing in Nuclear Estrogen Receptor-negative HCC-38 Cells	Salary
	Parthasarathy, Ramya	BME	Yoganathan, Ajit	BME	Aortic Valve Fluid Dynamics in an Anatomical Aorta Model	Salary
	Powell, Scott	BME	Yoganathan, Ajit	BME	Towards Simpler Approaches for Repair of Posterior Leaflet Prolapse in Degenerative Mitral Valve Disease	Salary

**Spring 2008 President's Undergraduate Research Awards (PURA)**

Student Name	Major	Mentor Name	Mentor School	Paper Title	Type
Rusly, Roy	BME	Yoganathan,Ajit	BME	PIV measurements of flow through a porcine stentless valve model	Salary
Sharif, Shan	BME	LaPlaca,Michelle C	BME	dynamic locomotor function in traumatic brain injury and spinal cord injury	Salary
Shih, Karen	BME	Kemp,Melissa Lambeth	BME	Development of a Biochemical Assay to Quantify PKC $\theta$	Salary
Tan, Richard	BME	LaPlaca,Michelle C	BME	Short-term Electrophysiological Assessment of Injured Neuronal-Astrocytic Cocultures	Salary
Walker, Ryan	BME	Santangelo,Philip J	BME	Development of imaging probe for influenza genomic RNA	Salary
Waring, James	ME	McDevitt,Todd C	BME	Effects of Stem-cell Derived Biomaterial on Cell Migration	Salary
Yi, Chuyong	CHBE	Potter,Steven M	BME	Chemical Reward System	Salary
Zheng, He	BME	Bellamkonda,Ravi Venkat	BME	on Chronic Neural Recordings and Brain Tissue Response in Rats	Salary
Jeffries, Timothy Burns	CEE	Teizer,Jochen	CEE	Using 3-D Laser Scanning Technology to Enhance Construction through Superior Information	Salary
Azaibi, Adam	CHBE	Behrens,Sven H	CHBE	Controlling Emulsion Stability With Colloidal Particles	Salary
Gallagher, Colin	CHBE	Nair, Sankar	CHBE	Proton Conductivity of Layered Aluminophosphate-Nafion(R) Composite Membranes	Salary
Oxendine, Raymond	CHBE	Eckert, Charles	CHBE	Economic & Environmental Biomass Pretreatment	Salary
Talley, Anne	CHBE	Eckert, Charles	CHBE	Modification of Amino Acids for Extraction and Analysis by Supercritical Fluid Chromatography	Salary
Tong, Ho Ming	CHBE	Nair,Sankar	CHBE	Water Sorption of Nanotubes	Salary
Gu, Yu	ISYE	Lu,Jye-Chyi	ISYE	Mathematical Model for Multi-Stage Robust Parameter Design with Feedback Control Schemes	Salary
Caesar, Christa	BME	Gleason Jr.,Rudolph Lawson	ME	Endothelialization of collagen-fibrin based cell constructs	Salary
Connolly, Kevin	NRE	Rahnema,Farzad	ME	Generation of two-dimensional multigroup diffusion coefficients by Monte Carlo methods	Salary
Daftari, Aayush	ME	Singhose,William E	ME	Effect of Input Shaper Duration on Crane Operator Performance	Salary

### Spring 2008 President's Undergraduate Research Awards (PURA)

	Student Name	Major	Mentor Name	Mentor School	Paper Title	Type
	Dannemiller, Devin (declined)	NRE	Van Rooijen, Willem F. G.	ME	Thorium-based Nuclear Fuel for Use in Pressurized Water Reactors	Salary
	Fallacara, Matthew	ME	Neu, Richard W	ME	Characteristics of Fretting Cracks in 301 Stainless Steel	Salary
	Geng, Yue	BME	Gleason Jr., Rudolph Lawson	ME	Bioconjugated quantum dots for the characterization of vascular remodeling	Salary
	Kumar, Abhishek	ME	Choi, Seung-Kyum	ME	Multidisciplinary design and optimization of vehicle chassis	Salary
	Lath, Adrit	ME	Singhose, William E	ME	Development of Input Shapers for Mobile Cranes	Salary
	Lovejoy, Scott	BME	Ku, David N	ME	In Vitro Model for Thrombotic Occlusion in Stenotic Arteries	Salary
	Sefic, Aida	ME	Colton, Jonathan S	ME	Reduction in Waste for Hypodermic Syringe and Needle Packaging	Salary
	Stratton, Caroline	NRE	Shelton, Samuel V	ME	Evaluating the Economics of New Nuclear Power Generation	Salary
	Straub, Kelly	BME	Gleason Jr., Rudolph Lawson	ME	Device to Mimic Mouse Flow Rate and Pressure Waveforms	Salary
	Wildes, Michael	BME	Ku, David N	ME	Thrombotic Occlusion in Stenotic Arteries	Salary
	Lu, David	MSE	Tsukruk, Vladimir V	MSE	Bioinspired Hydrogel-Encapsulated Hair Flow Sensor for Enhanced Fluid Sensing	Salary
	Parpart, Sonya	BME	Milam, Valeria Tohver	MSE	Using Mutations to Reverse Assembly of DNA-linked Particles	Salary
	Whelchel, Ricky	MSE	Gerhardt, Rosario	MSE	Mechanical and Electrical Characterization in Age Hardened Waspaloy Microstructures	Salary
<b>COC</b>						
	Cray, William	CS	Orso, Alessandro	CSS	Combining Capture Replay and Fuzz Testing to Determine Application Integrity	Salary
	Prockow, Stephan	CS	Orso, Alessandro	CSS	Using Dynamic Tainting to Support Debugging	Salary
	Whitney, Conroy	CS	Orso, Alessandro	CSS	Implementing Regression Testing Techniques in an Industrial Environment	Salary

**Spring 2008 President's Undergraduate Research Awards (PURA)**

	<b>Student Name</b>	<b>Major</b>	<b>Mentor Name</b>	<b>Mentor School</b>	<b>Paper Title</b>	<b>Type</b>
<b>COM</b>						
	Sekhon, Jason	COM	Zhang,Han	COM	Evolution of Online Pricing Strategies in Business-to-Consumer Electronic Markets	Salary
<b>COS</b>						
	Halcik, Becky	BME	Millard-Stafford,Melinda	AP	Comparison of the hydration levels of athletes using a traditional sport drink versus an alternative sport drink	Salary
	Boyd, William	Physics	Perry,Joseph W.	CHEM	Excited State Photophysics of Affixed Chromophore Dyes	Salary
	Karim, Samina	CHEM	Collard,David M	CHEM	Emitting Diodes (OLEDs): Synthesis and Characterization of Amphiphilic Monomers for	Salary
	Lovett, David	CHEM	Josowicz,Mirosława	CHEM	New approaches to chemical sensing based on enantioselectivity of PANI film: scopes and limitations	Salary
	Guigou, Evan	ME	Goldman,Daniel I	Physics	Analysis of the Biomechanics of Locomotion of Ghost Crabs on Complex Substrates	Salary
	Taing, Lee	BME	Curtis,Jennifer Erin	Physics	Characterization of the Pericellular Coat	Salary
	Wiles, Brandon	Physics	Curtis,Jennifer Erin	Physics	Size-dependent retrograde motion	Salary
	Felipe, Sarah	Psych	Rogers, Wendy A	Psych	Aging in place: Older Adults' perceived needs and impediments in managing and maintaining their homes	Salary
	Marsh, Erin	Psych	Engle,Randall W	Psych	Working Memory and Selective Attention	Salary
	Morford, Zachary	Psych	Kanfer,Ruth	Psych	Procrastination and Goal Setting	Salary
	Moskovitch, Yarden	Psych	Engle, Randall W	Psych	Establishing population norms for complex working memory span tests	Salary
<b>IAC</b>						
	Gonzalez, Naihobe	ECON	Uwaifo,Ruth O	ECON	Returns to Education in Venezuela Following Tertiary Education Reform: 2003-	Salary
	Solis Artavia, Stephanie	HTS	Winders,William P	HTS	State Formation of Latin America in a World Political and Economic Context	Salary
	Espy, Halley	INTA	Birchfield,Vicki L	INTA	Opportunities for Renewing the French-German Motor of European Integration	Salary

**Spring 2008 President's Undergraduate Research Awards (PURA)**

	<b>Student Name</b>	<b>Major</b>	<b>Mentor Name</b>	<b>Mentor School</b>	<b>Paper Title</b>	<b>Type</b>
	Cassidy, Christopher	LCC	Broglio,Ron	LCC	Capturing Wild Animality	Salary
	Gooch, Betsy	LCC	Yaszek,Lisa	LCC	The Communication of Fan Culture: The Impact of New Media on Science Fiction and Fantasy Fandom	Salary
<b>GTRI</b>						
	Camacho-Aguilera, Rodolfo	MSE	Ready,William Judson	GTRI	Miniaturizing Interconnects: High conductivity connections through Carbon Nanotubes	Salary
	Lacasse, Philippe	CHBE	Ready,William Judson	GTRI	Carbon Nanotube Based Microbattery	Salary
	Kang, Jina	CHBE	Fuller,Thomas F	GTRI-ATAS	Development and Characterization of Microbial Community-based Fuel Cells	Salary