## **Summer 2010 President's Undergraduate Research Awards**

Award		Student			Funding
School	Student Name	Major	Mentor Name	Paper Title	Type
College	of Architecture				
COA	Abboud, Josef	ARCH	Khan,Sabir	Ethnic Entrepreneurship in Metro Atlanta	Salary
College	of Engineering				
				On the Concept of Defense-in-Depth and the High Reliability Organization	
AE	Cummings, Amy	AE	Saleh,Joseph Homer	Paradigm for the Mining Industry	Travel
				Collection Efficiency of a Helicopter Rotor Using an Eulerian Approach and	
AE	Garza, Dennis	AE	Sankar,Lakshmi N	Numerical Integration	Salary
			Lieuwen,Timothy	Effects of Flame Temperature Ratio on Bluff Body Wakes in Augmentor	
AE	Lundrigan, Julia	AE	Charles	Applications	Salary
				Investigating the Means of Assessing and Improving the Safety of the Future Air	
AE	Lundrigan, Julia	AE	Volovoi,Vitali	Transportation System	Salary
BME	Barry, Zachary	BME	Platt,Manu Omar	Computational Modeling of Cathepsin Kinetics	Salary
				Regulation of Cathepsin Activity by Monocytes and Endothelial Cells in Sickle Cell	
BME	Kopfle, Eric	BME	Platt,Manu Omar	Disease	Salary
				The Effect of Trabecular Microstructure and Mechanical Properties on the	
BME	Poukalova, Mariya	BME	Yakacki, Christopher	Pullout Strength of Suture Anchors	Travel
				Modifying Titanium Surface Properties: Effects on Bone Cell Growth and	
BME	Song, Rosemary	BME	Boyan,Barbara D	Differentiation	Salary
	Tamilselvan,			Characterization of Fluid Shear Stress on the Bicuspid Valve Leaflet Using Laser	
BME	Gowthami	CHBE	Yoganathan,Ajit	Doppler Velocimetry	Salary
			Babensee,Julia	Carbohydrate Microarrays for High-Throughput Analysis of Dendritic Cell-Glycan	
BME	Xu, He	BME	Elizabeth	Interactions	Salary
		CHEM		Investigating the Role of Amino Ester Hydrolase (AEH) Active-Site Residues by	
CHBE	Ha, Thanh	/BCHM	Janna K Blum	Site-Directed Mutagenesis	Salary
CHBE	Kuo, Che-Ying	CHBE	Lu,Hang	Cell and Particle Mixing Behavior in Microfluidic Devices	Salary
CHBE	Marchbanks, Melissa	CHBE	Taite,Lakeshia J.	In Vitro Vascular Cell Behavior within Nitric Oxide Releasing Hydrogels	Salary
				Analysis of Mechanical and Morphological Response of Mesenchyaml Stem Cells	
				in Response to Chemical and Environmental Conditions Towards the	
CHBE	McGrail, Daniel	CHBE	Dawson,Michelle R	Development of a Homing Gene Delivery System	Salary
				Synthesis of Chain Transfer Agents for the RAFT Polymerization of Hyper-	
CHBE	Natarajan, Aswin	BME	Taite,Lakeshia J.	Branching Polymers	Salary

4-29-2010 Page 1 of 3

## **Summer 2010 President's Undergraduate Research Awards**

Award School	Student Name	Student Major	Mentor Name	Paper Title	Funding Type
3011001	Student Hume	iviajoi	Wientor Hume	Tuper rice	1,400
СНВЕ	Vowell, Bryan	СНВЕ	Bommarius, Andreas S	Improving Enzymatic Hydrolysis of Cellulose for Biofuel Application	Salary
CHBE	Wilms, Jillian	CHBE	Champion,Julie Anne	Effects of Crosslinking and Coatings on Nanoparticle Properties	Salary
				Xenobiotic reductase A from Pseudomonas putida: charaterization and catalytic	l
CHBE	Yu, Hua-Hsiang	СНВЕ	Bommarius, Andreas S	activity study	Salary
ECE	Giardina, Christopher	ВМЕ	Hunt,William D	Prostate Cancer Detection via Acoustic Sensor of Biomarkers	Salary
				Integrated Wireless Sensors on Flexible Organics using Inkjet-printing	
ECE	Palacios, Sebastian	ECE	Tentzeris,Emmanouil M	Technologies	Salary
ISYE	Vandegrift, David	ISYE	Tovey,Craig A	Pursuit-Evasion on Graphs	Salary
				Formation of an Antimicrobial Agent through Synthesis of Asymmetric	
ME	Beebe, Christopher	ME	Sulchek,Todd A	Microspheres Using Coconut Oil Technique	Salary
ME	DeMercurio, Peter	ME	Hu, David	Biology and Fluid Mechanics of the Eye	Salary
				Designing an Electrically Conductive Polypropylene Composite with Graphite	
ME	Holt, Travis	ME	Kalaitzidou,Kyriaki	Nano-particles for Automotive Paint Application	Salary
ME	Lai, Ethan	CEE	Antoniou,Antonia	Quantifying material behavior in a corrosive environment	Salary
ME	McKenzie, Joseph	ME	Ryherd,Erica Eileen	Evaluating the Soundscape in Hospitals & Other Facilities	Salary
				Design of the Boeing 787Material Structures Using Stoichiastic Optimization	
ME	McNicoll, David	ME	Choi,Seung-Kyum	Techniques	Salary
ME	Mills, Zachary	ME	Hu,David L	Improving Washing Machine Design: A Biomimetric Approach	Salary
ME	Sullivan, Owen	ME	Kumar, Satish	Thermoelectric Coolers for Thermal Gradient Management on Chip	Salary
PTFE	Meree, Caitlin	PTFE	Shofner,Meisha Lei	Structural Health Monitoring in Polymer Nanocomposites	Salary
College	of Sciences				
	VanLoozen,				
AP	Josephine	BIOL	Chang,Young-Hui	Morphometric Study of Segment Inertias in the Rat Model	Salary
				Comparing the sensorimotor response and behavior of invertebrate larvae	
				Temora longicornis and vertebrate larvae Fundulus heteroclitus when exposed	
BIOL	Angra, Aakanksha	BIOL	Yen,Jeannette	to Harmful Algal Blooms, Karenia brevis and Alexandrium fundyense.	Salary
				Developing a system to study branch migration of Holliday junctions in S	
BIOL	Kwon, Khillip	BIOL	Lobachev,Kirill S	cerevisiae	Salary

4-29-2010 Page 2 of 3

## **Summer 2010 President's Undergraduate Research Awards**

Award		Student			Funding
School	Student Name	Major	Mentor Name	Paper Title	Туре
				Elaborating on the mechanisms contributing to cusp development in the cichlid	
BIOL	Norsworthy, Michael	BIOL	Streelman,Jeffrey Todd	dentition	Salary
CHEM		CHEM			
/BCHM	Jekot, Heather	/BCHM	Payne,Christine K	Functionalization of Quantum Dots for Labeling Proteins in Live Cells	Salary
CHEM		CHEM			
/BCHM	Zapata, Jairo	/BCHM	Payne, Christine K	Delivery of Small Interfering RNA into the Cytosol	Salary
				Rate of Deformation Along the Western Tunka Fault Zone and Intracontinental	
EAS	Shaikh, Afshan	EAS	Frankel,Kurt L	Deformation in Central Asia	Salary
Physics	Blumoff, Jacob	Physics	Kuzmich,Alexander M	Spectroscopy of Thorium-229 – Preparing for an excited nucleus	Salary
•	Marchenkova,				
Physics	Anastasia	Physics	Kuzmich,Alexander M	Entanglement at Telecommunication Wavelengths	Salary
			Shoemaker,Deirdre	Determining the Template Space of Black Hole Collisions for Gravitational Wave	
Physics	Meeks, Zachary	Physics	Marie	Detectors	Salary
Georgia	Tech Research In	stitute	ı		
GTRI-EOS	Han, Chenlu	ME	Kang,Zhitao	Nanophosphor Embedded Polymeric Nanocomposite for X-ray Imaging	Salary
GTRI-EOS	Nguyen, Justin	PTFE	Ready,William Judson	Analysis and Characterization of 3D Amorphous Silicon Solar Cells	Salary
Ivan Alle	en College				
				Nuclear Energy Technologies Trade: A Study of the Developing Market and its	
ECON	Rieck, Kristin	ECON	Nair-Reichert,Usha C	Impacts on International Policymaking	Salary
HTS	Meyer, Jessica	HTS	Gerona,Carla	Athanase de Mézières and other Observations of East Texas during the 1700s	Salary
HTS	Whiteside, Kaitlyn	HTS	Bayor,Ronald H	The Implementation of Desegregation in Chattanooga, TN	Salary
PP	Rattray, Liam	PP	Cozzens,Susan E	Hackspaces: A Study of Community Innovation in Emerging Technologies	Salary

4-29-2010 Page 3 of 3