



Program to Fund 45 Research Projects Proposed by Undergraduates

Nov. 3, 2008

Chess, local bioethanol production and artificial muscles in HVAC systems are just some of the research topics being funded as part of the second year of the Undergraduate Research Scholar Award Program.

In all, 45 students received \$500 each to cover laboratory equipment, travel or other project-related expenses for their research proposals.

This is more than double the number of projects funded last year, the first time the program was offered. The funds were granted for a single semester by the Office of the Vice President for Research and are supported by Tektronix Communications and Raytheon.

When the projects are finished, the students are to submit research summaries, and their faculty sponsors are to certify the projects' completion.

The complete list of student winners and their research projects are as follows:

<u>Student</u>	<u>Research Topic</u>	<u>Faculty Sponsor</u>
Chris Alameddin	"Synthesis of Cell Permeable Luminescent Gold Nanoparticles"	Jie Zheng
Michael Bavoso	"Urolithiasis in Dogs and Cats and its Dependence on Climate Change"	Tom Brikowski
Neeraj Bhat	"Study of Texas-based Cellulosic materials for Bioethanol Production"	DJ Yang
Matthew Brier	"Multiple number representations in working memory"	Dr. John Hart Jr.
Kelly Bruckmann	"Does mimicking the Endogenous Amygdala Stress Response Enhance Memory of a Non-Stressful Task?"	Dr. Christa McIntyre
Timothy Cave	"Modeling and Decoding of Motor Cortical Activity"	Yan Cao
Derek Cox	"Neurotoxicity of tau protein"	Gail Breen
Fadwa Elashi	"In-Group Attitudes of Muslim Children"	Dr. Candice Mills
Salouneh Esmaili	"Synthesis of the amphiphilic and biodegradable block copolymers for drug delivery applications"	Mihaela Iovu
Mahsa Fardin	"Synthesis of thiol terminated Poly(3hexylthiophene)"	Mihaela Iovu
James Gill	"Biostratigraphical analysis of Mariana Forearc sediments as retrieved by the Deep Submersible Vehicle SHINKAI 6500"	Ignacio Pujana

Yashodhan Gogte	"Surface Etching of Semiconductor Materials"	Yves Chabal
Rodolfo Guzman	"In-situ FTIR Characterization of Graphene Single Layer Sheets"	Yves Chabal
Lorna Hanko	"Evaluation of Ground-water/Surface-water Interactions in the Trinity Alluvial Aquifer McKinney Texas"	Tom Brikowski
Jessica Harpham	"Analyzing the cellular status and brain cytoarchitecture of mutant mice"	Santosh D'Mello
Stuart Harrell	"Investigation into Rule-based Automatic Generation of Abstract Art"	Kang Zhang
Bradley T. Havard	"Metrics for Aspect-oriented Use Case Diagrams"	Kendra Cooper
Susan Brie Hazelwood	"The effects of Multi-Systemic Therapy on Juvenile Criminality"	James Marquart
Eric Ingram	"Lunar Thermal Emission and Regolith Maturity"	Mary Urquhart
Reji Joseph	"XeFz etching of silicon"	Yves Chabal
Jennifer Kim	"Testing for software safety"	Eric Wong
Mi H. Kim	"Studying Peptide Neurotoxicity"	Warren Goux
Mira Kim	"Applying Data Mining to Effective Software Fault Localization"	Eric Wong.
Thomas Krenik	"Applications of Nanotechnology and Artificial Muscles in HVAC Systems"	Ray Baughman
Amy Michelle Lehman	"Database of Chess Scholarship Opportunities"	Alexey Root
Felicity Lenes	"Vaccine Targeting: Tipping Equilibria and Herd Immunity Based on Individual Mobility and Disease Infectivity Levels"	Todd Sandler
Gustavo Litovsky	"Voice communications using Wireless Sensor Nodes"	Andrea Fumagalli
Ran Lu	"The hedging plans for airline companies"	Ted Day
Tomoyasu Mami	"In(III) dicyclohexano and dibenzo DOTA-tetraamide complexes as PARACEST agents"	A. Dean Sherry
Chanel J Matney	"Discrimination of Degraded Speech Sounds Following Bilateral Lesions of the Rat Auditory Cortex"	Dr. Michael Kilgard
Alexander Palmer	"Search for charmed baryonia in reaction: $e^+e^- \rightarrow \Lambda^+ \Lambda^- c \bar{s} R$ "	Joseph Izen
Kajal Parekh	"Monitoring Gait with Wearable Sensor Networks"	Roozbeh

Siddharth Sampat	“Colloidal Quantum Dot and Single Dot Spectroscopy”	Anton Malko
Raktim Sarma	“Excitons and Polarons on Helically Shaped One-Dimensional Semiconductors”	Yuri Gartstein
Areeg Siddig	“Stabilization of Peptide/Carbon nanotube dispersion by oxime cross-links”	Gregg Dieckmann
J. Gary Sinclair Jr.	“Developing a method for the rapid assessment of single-walled carbon nanotube lengths usyng dynamic light scattering”	Paul Pantano
Sharanya Sivanand	“Quantitative Analysis of γ -globin gene expression in Human Erythroleukemia Stable Cell-Line (KU-812) and Human Primary Cells”	Betty Pace
Austin Swafford	“The Thermal Ablation of Cancer Cells by the Near-Infrared (NIR) Radiation of Double -Walled Carbon Nanotunes (DWNT)”	Rockford Draper
Bryan Thompson	“Effects of Vagus Nerve Stimulation on Plasticity in Motor Cortex”	Michael Klgard
Luis Torres	“Real-time Deformation of Bodies with Rigid and Deformable Components”	Xiaohu Guo
Steven Walsler	“The Effect of Mood on Risk and Trust Preferences: An Experimental Study”	Catherine Eckel
Joshua J. White	“Neural Mechanisms of Semantic Inhibition Across Ages Amongst an ADHD Population”	Mandy Maguire
Ben Williams	“CVD growth of nanotubes in inverted carbon opals and their alkali metal doping (A) for the search of superconductivity in Ax-CNT-opal nanostructures”	Anvar Zakhidov
Tresa Zacharias	“Use of a phosphory assay for interaction between cholinergic and minoaminergic interaction in protein kinase activity:a model for mood disorders”	Marco Atzori
Bayarara Zorigt	“Checkmate History lessons: UTD Chess Program”	Alexey Root

Media Contacts: Beth Keithly, UT Dallas, (972) 883-4568, keithly@utdallas.edu or the Office of Media Relations, UT Dallas, (972) 883-2155, newscenter@utdallas.edu

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800 West Campbell Road Richardson, TX, 75080 (972) 883-2111