

# ACES

## THE UNIVERSITY OF TEXAS AT ARLINGTON

### THE ANNUAL CELEBRATION OF EXCELLENCE BY STUDENTS

## March 26, 2014

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**Congratulations to all of the award recipients and thank you to all of the presenters!**

#### Outstanding ACES Faculty Mentor

**Samir M. Iqbal, Department of Electrical Engineering, Department of Bioengineering**

#### Graduate Sustainability Award

##### Graduate Sustainability Award (\$250)

**Name:** Adam Heisserer (Architecture)

**Title:** Zero-Energy Responsive Metallic Façade System

**Faculty Mentor:** Brad Bell

#### Undergraduate Sustainability Award

##### Undergraduate Sustainability Award (\$250)

**Name:** Luis Velazquez (Biology)

**Title:** IDENTIFYING NOVEL CELLULASE AND XYLANASE ACTIVITIES THROUGH SCREENING OF A FOSMID LIBRARY FROM A TERMITE ASSOCIATED *VERRUCOMICROBIUM*

**Faculty Mentor:** Jorge Rodrigues

**Undergraduate Poster Presentation****President's Poster Award (\$200)****Name:** Sarasvati Guzman (Kinesiology)**Title:** An Overview Of Self-Efficacy Related To Physical Activity In Children With Developmental Coordination Disorder**Faculty Mentor:** Priscila Caçola**Provost's Poster Award (\$100)****Name:** Mouhamed Nashawi (Biology)**Title:** Influence of Nutrient Concentration on EPS Production and Biofilm Growth**Faculty Mentor:** Hristo Kojouharov**Dean's Poster Award (\$50)****Name:** Yashaswini Nagarajan (Biology)**Title:** A Combination of Biological and Analytical Methods to Pursue Elusive Medicinal Compounds from Natural Products**Faculty Mentor:** Kevin A. Schug**Honorable Mention (\$25)****Name:** Laila Khan (Biology)**Title:** Lingering effects of Multiple Concussions on ImPACT and Sensory Organization Test**Faculty Mentor:** Jacob Resch**Honorable Mention (\$25)****Name:** Sylvia Loh (Biology)**Title:** Microfluidics: An innovative way to assess cancer metastasis**Faculty Mentor:** Jung-Chih Chiao**Undergraduate Morning Oral Presentation****President's Award (\$200)****Name:** Emmanuel Fordjour (Biology)**Title:** *In Vitro* Activity of Paired Antibiotic Combinations against *Clostridium difficile***Faculty Mentor:** Julian G. Hurdle**Provost's Award (\$100)****Name:** Lindsey Anderson (History)**Title:** Creating Black and Brown Female Disability: Historical Assumptions and Independent Realities**Faculty Mentor:** Ray Jordan**Dean's Award (\$50)****Name:** Rachel Lyle (Nursing)**Title:** Measured Noise Levels in the Hospital with Correlating Patient Perception**Faculty Mentor:** Deborah Behan**Dean's Award (\$50)****Name:** Matthew Le (Biology)**Title:** LIMITING NEUROMA FORMATION AND NEUROPATHIC PAIN AFTER PERIPHERAL NERVE INJURY USING A MULTI-LUMINAL CONDUIT IMPLANT**Faculty Mentor:** Mario Romero-Ortega**Undergraduate Afternoon Oral Presentation****President's Award (\$200)****Name:** Timothy Hoffman (Physics)**Title:** Simulations of the ATLAS Forward Proton Detector.**Faculty Mentor:** Andrew Brandt**Provost's Award (\$100)****Name:** Arya Banait (Mechanical & Aerospace Engineering)**Title:** Experimental Analysis of Patterned Growth of Micropores in Poly-Dimethylsiloxane (PDMS)**Faculty Mentor:** Ankur Jain**Dean's Award (\$50)****Name:** Samuel Frickle (Biology)**Title:** Effects of Population Density on the Spread of Disease**Faculty Mentor:** Kribs Zaleta

**Graduate Poster Presentation****President's Poster Award (\$200)****Name:** Primana Punnakitikashem (Biomedical Engineering)**Title:** Drug-releasing biodegradable elastomeric fibers for vascular engineering**Faculty Mentor:** Kytai T. Nguyen**Provost's Poster Award (\$100)****Name:** Prashant Hariharan (Biomedical Engineering)**Title:** Co-delivery of anti-cancer drug with pH-sensitive and photoluminescent nanoparticle for prostate cancer**Faculty Mentor:** Kytai T. Nguyen**Dean's Poster Award (\$50)****Name:** Soundarya Shankar (Biomedical Engineering)**Title:** A Study Correlating Hypnotic Susceptibility with Relaxation Techniques**Faculty Mentor:** Mario Romero-Ortega**Honorable Mention (\$25)****Name:** Salman Khan (Mechanical & Aerospace Engineering)**Title:** Finite Element modeling of Descemet's Stripping Automated Endothelial Keratoplasty (DSAEK) surgery to improve surgical outcomes**Faculty Mentor:** P S Shiakolas**Honorable Mention (\$25)****Name:** Isaac Cohen (Electrical Engineering)**Title:** The Development of a Hybrid Energy Storage Module (HESM) Using Commercial Off the Shelf Technology**Faculty Mentor:** David Wetz**Graduate Morning Oral Presentation****President's Award (\$300)****Name:** Benjamin Johnston (Biomedical Engineering)**Title:** RADIO-FREQUENCY STIMULUS INDUCED NEUROMA PAIN**Faculty Mentor:** Mario Romero-Ortega**Provost's Award (\$200)****Name:** Gustavo A. Puerto-Souza (Computer Science Engineering)**Title:** Improving Surgical Precision by using Long Term Augmented Reality on Live Endoscopic Videos**Faculty Mentor:** Gian-Luca Mariottini**Dean's Award (\$100)****Name:** Evelyn H. Wang (Chemistry)**Title:** Antibacterial Drug Discovery from Natural Products Assisted by Novel Mass Spectrometry Technique**Faculty Mentor:** Kevin A. Schug**Honorable Mention (\$50)****Name:** Megan Velten (Material Science Engineering)**Title:** Changes in the Structure of Bone of a Low Phosphate DMP1-null Murine Model**Faculty Mentor:** Pranesh B Aswath**Honorable Mention (\$50)****Name:** Carol Howe (Nursing)**Title:** Parent Health Literacy and Communication with Diabetes Educators in a Pediatric Diabetes Clinic: A Mixed Methods Approach**Faculty Mentor:** Judy LeFlore**Graduate Afternoon Oral Presentation****President's Award (\$300)****Name:** Kharrolyn Amissah-Aidoo (Architecture)**Title:** EMPOWERING INNOVATIONS THROUGH DESIGN THINKING**Faculty Mentor:** Norma Figueroa**Provost's Award (\$200)****Name:** Matthew Steffenson (Biology)**Title:** Starvation and its effects on wolf spider (*Tigrosa helluo*) fitness**Faculty Mentor:** Laura Mydlarz

**Dean's Award (\$100)****Name:** Richard Eiland (Mechanical & Aerospace Engineering)**Title:** Flow Rate and Inlet Temperature Considerations for Direct Immersion of a Single Server in Mineral Oil**Faculty Mentor:** Dereje Agonafer**Honorable Mention (\$50)****Name:** Hui Fan (Chemistry)**Title:** Probing in vitro antioxidant mechanism of flavonoids: Reactive oxygen species induced oxidative degradation of quercetin and catechin in a continuous stirred tank reactor**Faculty Mentor:** Kevin A. Schug**Honorable Mention (\$50)****Name:** Shammi Rahman (Civil Engineering)**Title:** Development of Linear Regression Models for Predicting Water Quality Parameters and Estimating Methane Generation Rates from Anaerobic Treatment of Vinasse.**Faculty Mentor:** Melanie Sattler

Annual Celebration of Excellence by Students (ACES)

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