



Undergraduate Research Spring Symposium April 1, 2009

Oral and Poster Presentation Awardees

Oral Session – Outstanding Oral Presentations

College of Architecture

BIM-enabled Integrated Optimization Tool for LEED Decisions

Shannon Barnes, BC

Mentor: Dr. Daniel Castro-Lacouture, BC

College of Computing

Monitoring Mating Mosquitoes to Mitigate Malaria: 3D Tracking with 4D Light Fields

Andrew Bardagjy, EE

Mentor: Dr. Frank Dellaert, Interactive Computing

College of Engineering

Laser Doppler Velocimetry and CH* Chemiluminescence of a Low Swirl Burner

Benjamin Emerson, AE

Mentor: Dr. Tim Lieuwen, AE

Ivan Allen College

Technology to Policy: A Case Study in Biofortification

Tobias Tatum, PUBP

Mentor: Ms. Marlit Hayslett, GTRI/Policy

College of Sciences

The Mechanism of Proteoglycan Membrane Anchorage Affects the Endocytic Pathway of Cellular Cargo

Kevin Hardin, CHEM

Mentor: Dr. Christine Payne, CHEM/BCHM

Poster Session – Outstanding Posters

Ivan Allen College

Gendered Play in Online Worlds

Kady Rosier, CM

Mentor: Dr. Celia Pearce, LCC

College of Computing

The Effects of Mobility on Mobile Text Input

Daniel Gifford, CS

Mentor: Dr. Thad Starner, CC

College of Sciences

Nuclear Magnetic Resonance Based Whale Shark Metabolomics

Krista Lim-Hing, BIO

Mentor: Dr. Julia Kubanek, Biology

College of Engineering

1st place (tie)

Evaluation of Thermomechanical Properties of Fiber Reinforced Shape-memory Polymer Systems

Agatha Kwasnik, BME

Mentor: Dr. Ken Gall, MSE

Turbulent Flame Speeds of H₂/CO Blends

Alexander Roan, ME; Jose Antezana, ME; & Juan Pedroza, AE

Mentor: Dr. Tim Lieuwen, AE

2nd place (tie)

Flame Response of Swirl Premix Flames to Transverse Acoustic Excitation

Shweta Natarajan, ME

Mentor: Dr. Tim Lieuwen, AE

Inorganic Templating of Pollen Particles for Use as a Catalytic Material

Adam Jakus, MSE; Allison Sanders, MSE; Neil Patel, MSE; Celeste Mason, MSE; &

Alex Soracco, MSE

Mentor: Dr. Zhong Lin Wang, MSE

Automation of Particle Tracking Technology

Hyunwoong Lee, CHBE

Mentor: Dr. Victor Breedveld, CHBE

3rd place (tie)

Carbon Nanotube Based Nanoelectrode Arrays

Kirsten Kepple, BME

Mentor: Dr. Jud Ready, GTRI/MSE

Carbon Nanotube Based Microbattery

Philippe Lacasse, CHBE

Mentor: Dr. Jud Ready, GTRI/MSE