Research Week 2012 Winners from the Graduate Scholars Symposium

Oral Presentations:

**Engineering**

1st – Alexander Hodge, Chemical Engineering: Directing the maturation of stem cell-derived cardiomyocytes using soluble nitric oxide donors

2nd – Hema Ramsurn, Chemical Engineering: Biocrude production by acidic-subcritical followed by alkaline-supercritical-water two-step liquefaction

3rd – Christopher Wilson, Electrical Engineering: Sliding mode control of multi-input power switching systems

3rd (tied) – Ying Zhu, Chemical Engineering: In-situ electrochemical characterization of solid oxide fuel cells at loads

**Humanities**

1st – Jessica Daves, Spanish: Two crabs in the same shell: A phraseological comparison of Rosario Ferré's "Language Duel" poems

**Sciences**

1st – Justin Havird, Biology: Osmoregulatory and metabolic capabilities of Halocaridina rubra (Crustacea: Atyidae)

2nd – Desiree Wanders, Biomedical Sciences: Niacin increases adiponectin in obese mice in a receptor-dependent manner

3rd – Meghan Davolt, Biomedical Sciences: Establishment, validation and application of multispectral imaging technology to studies of bovine reproductive tract development

**Social Sciences**

1st – John Magnotti, Cognitive and Behavioral Sciences: Estimating capacity and control of visual working memory

2nd – Sam Logan, Kinesiology: Effectiveness of motor skill interventions in children: A meta-analysis
Posters:

**Design**


**Engineering**

1st – **Petra Kerscher**, Chemical Engineering: The effect of nitric oxide on endothelial progenitor cell proliferation

2nd – **Min Kim**, Chemical Engineering: Pseudo-continuous fermentation – An effective way to study the dynamics of co-culture systems

3rd – **Shaima Nahreen**, Chemical Engineering: Conversion of Biobutanol to unsaturated higher hydrocarbons by catalytic dehydration

3rd (tied) – **Charlotte Stewart**, Chemical Engineering: Synthesis of higher alcohols from syngas over a K-promoted Cu-Co-Zn catalyst in supercritical hexane

3rd (tied) – **Arianna Tieppo**, Chemical Engineering: Controlled in vivo release from daily disposable contact lenses

**Sciences**

1st – **Inseyah Bagasrawala**, Pharmacal Sciences: Protective effects of PPAR-gamma activation against AGE-induced modification of coactivator p300/CBP

2nd – **Sonnet Gomes**, Geology: Sequence stratigraphic analysis of the Upper Pottsville Formation, Cahaba Synclinorium

2nd – **Aindrea McHugh**, Exercise Science: The effects of a 7-week low frequency recreational jogging program on heart rate variability

3rd – **Isha Dhande**, Pharmacal Sciences: Protective role of the angiotensin AT2 receptor in obesity-induced renal inflammation

3rd – **Sourashish Nag**, Pharmacology: Angiotensin AT2R activation rescues high-fat diet-induced adipocyte size increase in young male mice

**Social Sciences**

1st - **Andrew Shen**, Experimental Psychology: A comparison of peri-adolescent and adult performance on a two-choice serial discrimination reversal

2nd – **Saranrat Wittayanukorn**, Pharmacy Care Systems: Evaluation of medication therapy management (MTM) services for patients with cardiovascular disease