



Undergraduate Research Opportunities Program

Undergraduate Research Spring Symposium  
April 4, 2007

Oral and Poster Presentation Awardees

### **Oral Session – Outstanding Oral Presentations**

#### **College of Architecture**

Amy Plauche, Architecture  
*Library East Commons Research*  
Mentor: Dr. Sabir Khan, COA

#### **College of Computing**

David Mann and David Rutter, COC  
*Random Projection and Learning*  
Mentors: Dr. Rosa Arriaga and Dr. Santosh Vempala, COC

#### **College of Engineering**

Chanchala Kaddi, BME  
*Review and Comparison of Systems Biology Modeling Approaches for Translational Research*  
Mentor: Dr. Dongmei Wang, BME

#### **Ivan Allen College**

Lindsey Chatel, STAC  
*The History of Pain*  
Mentor: Cindy Klestinec, LCC

#### **College of Sciences**

John Widloski, Physics  
*Mixing by Steady Flows in Thermocapillary Driven Microdroplets*  
Mentor: Dr. Roman Grigoriev and Dr. Dmitri Vainchtein, Physics

### **Poster Session – Outstanding Posters**

#### **College of Architecture**

Lisa Thompson, Architecture  
*Carnegie Libraries: The Birth of the Public Library*  
Mentor: Dr. Elizabeth Dowling, COA

### **College of Computing**

Trevor Bentley, CS

*Haptic Laser Pointer*

Mentors: Dr. Gregory Abowd and Mr. Schetak Patel, COC

### **College of Engineering**

#### **1<sup>st</sup> place**

Masayuki Yano, AE

*Numerical Simulation of Annular Helicon Plasma*

Mentor: Dr. Mitchell Walker, AE

#### **2<sup>nd</sup> place**

Alex Gavrilovski, AE

*Experimental Analysis of Wave Propagation in Hexagonal and Chiral Cellular Structures*

Mentors: Dr. Massimo Ruzzene and Mr. Alessandro Spadoni, AE

#### **3<sup>rd</sup> place**

Martha Lesniewski, MSE

*Thermo-Mechanical Behavior of Epoxy Shape Memory Polymer Foams*

Mentor: Dr. Ken Gall, MSE

### **Ivan Allen College**

Jenifer Vandagriff, STAC

*Italian Futurism Cinema: Technological and Cultural Impacts*

Mentor: Dr. Angella Dalle Vacche, LCC

### **College of Sciences**

Brian Nakamura, Math

*Alexandrov's Conjecture*

Mentor: Dr. Mohammad Ghomi, Math