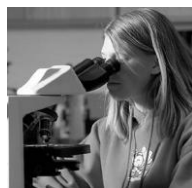


The University of Northern Colorado Presents  
*The College of Natural & Health Sciences'*  
**Fourth Annual Student Research Celebration**  
**April 2, 2009**



In conjunction with the University of Northern Colorado Student Research Day and Academic Excellence Week, you are invited to a reception and banquet in honor of exceptional student research and faculty mentors. Come celebrate the value of student research.

**Research Showcase and Reception, 5:30-7 pm** (*free of charge*)

**University Center, Fireside Lounge**

*Learn about student research as you mingle and enjoy the sounds of a pianist.*

**Banquet and Award Ceremony, 7-9 pm** (*\$20 per person*)

**University Center, Pikes Peak Ballroom**

### **Student Poster Presenters**

#### **School of Biological Sciences**

Jacqueline Johnson: *Steps Toward an Edible Malarial Vaccine*

Lindsey Mast: *Immunohistochemical Evaluation of Brain Explants in a Mouse Model of Schizophrenia*

Amie Madrigal, Ryan Pevey and Jon Ring: *Wolf Deterrents and Motivation-Structural Rules*

#### **School of Chemistry & Biochemistry**

James MacArthur: *Effect of a Chemical Education Ph.D. Program on Teaching Practices*

Sarah Morris: *Separation of a Mixture of Benzodiazepines using Reverse Phase High Performance Liquid Chromatography*

#### **School of Earth Sciences & Physics**

Douglas Koch: *Analysis of WRF Simulations of the 22 May 2008 Windsor Tornado using WSR-88D Radar Data*

Casey Kuhns and Adam Wilson: *Open Source Internet Robotics*

#### **School of Human Sciences**

Katie Gersbach: *A Comparison of the Acoustic Features of Vowels in a Pediatric Cochlear Implant User in Three Conditions: Right Implant Only, Left Implant Only, and Bilateral Implants*

Aaron Lucero: *A Comparison of the Inquiry of Student Satisfaction of their Respective University and College Town: University of Northern Colorado, Greeley, CO and Colorado State University, Fort Collins, CO. Educational and Recreational Opportunities*

Patricia Nickell: *Oral Complications of Cancer Treatment*

Danelle Vallejos: *Preventing Waste Project: Analysis of Plate Waste in a Tray-less System*

Stephanie Wood: *Understanding the Attitudes, Behaviors and Barriers of Accessibility Concerning Sexual and Reproductive Health of "Sheltered-Homeless" Women in Denver, CO*

#### **School of Mathematical Sciences**

Tiffany Brown-Utoft and Jessica Smoot: *Lesson Experiment*

Nicholas Carlson: *A Scalable Distributed System for Analyzing Web Application Usage Behaviors*

Joe Champion and Kristen King: *College Mathematics in the First Year: Advising, Student Enrollment, and Course Success*

Ann Wheeler: *Traditional and Nontraditional Preservice Elementary Teachers' Perceptions about Mathematics and Mathematics Teaching*

#### **School of Sport & Exercise Science**

Brendan Dwyer: *Divided Loyalty? An Analysis of Fantasy Football Involvement and Attitudinal Loyalty to Individual National Football League Teams*

Ryan Hall: *Exploring Donor Motives and Barriers to Giving*

Heather Muir: *Female Collegiate Ice Hockey Players and their Continued Involvement in Hockey Beyond College: A Qualitative Study*

### **Student Speakers**

Brendan Dwyer: Graduate Student, School of Sport and Exercise Science

Jessica Smoot: Undergraduate Student, School of Mathematical Sciences

### **Faculty Research Mentor of the Year Award**

Gregory DeKrey: Undergraduate Level, School of Biological Sciences

Juliet Fried: Graduate Level, School of Human Sciences

### **Faculty Mentor Speaker**

Juliet Fried: Graduate Level, School of Human Sciences