

*The College of Natural & Health Sciences'*  
**Second Annual Student Research Celebration**

April 12, 2007

*UC Fireside Lounge and Pikes Peak Ballroom  
University of Northern Colorado  
Greeley, Colorado*

The College of Natural and Health Sciences' (NHS') Student Research Celebration is intended to honor noteworthy research by NHS undergraduate and graduate students as well as exemplary research mentoring by NHS Faculty.

**Agenda**

- 5:30-7:00 PM NHS Student Poster Showcase
- 7:00-9:00 PM Banquet
- ◆Opening Remarks: Denise Battles, Dean
  - ◆Welcome and Comments: Kay Norton, President
  - ◆Dinner
  - ◆Presentations
    - Mariana Felix, Undergraduate Student Speaker  
School of Chemistry, Earth Sciences and  
Physics (Earth Sciences)
    - Allen Hanberg, Graduate Student Speaker  
School of Nursing
    - Kathryn Bright, Faculty Mentor Speaker  
School of Human Sciences (ASLS)

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

**Honoree - Graduate Faculty Mentor of the Year**

Kathryn Bright

**Nominees**

Kathryn Bright: School of Human Sciences (ASLS)

Robert Powers: School of Mathematical Sciences

Neil Snow: School of Biological Sciences

Hortensia Soto-Johnson: School of Mathematical Sciences



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

**Honoree - Undergraduate Faculty Mentor of the Year**

Chaandak Basu

**Nominees**

Chhandak Basu: School of Biological Sciences

Terry Scott: School of Mathematical Sciences



**Acknowledgments**

The College of Natural and Health Sciences would like to thank everyone who donated to the Student Research Fund, a fund which supports research and research-related travel by the College's students. Your donations will help to fund future student research, such as that you have seen tonight.

We would also like to thank the faculty, staff, students, and supporters who participated and assisted in making this year's Student Research Celebration a success.

## **Student Poster Presenters**

### **School of Biological Sciences**

Richard Rapp: *Effect of Plant Extracts on Cooled Stallion Sperm DNA Quality and Motility*

Audrey Rich: *A Rapid Field Test for Identifying Hantavirus - Infected Rodents*

Michael Schiebout: *Results from an Intensive Floristic Survey in Northeastern New Mexico*

Nissa Schmidt: *Endosulfan- $\alpha$  Induces CYP2B6 and CYP3A4 by Activating the Pregnane X Receptor*

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

Mariana Felix: *Correlation of Polarimetric Radar Hail Signatures with MODIS Ground Truth Data*

Josh Gunter: *Using a Nuclear Magnetic Resonance Spectrometer to find an Elusive Intermediate in an Organic Reaction: The Search for Carbocations*

Jacqueline Hilsenbeck-Fajardo: *Biochemical Molecular Animation as a Teaching Aid for Nursing and Allied Health Majors*

Casey Kuhns, Zack Armstrong, and Malcolm Tassi: *Localizing the Control of Motors in Robotics*

Jodie Wasacz: *Structural Characterization of Phenyl-cored Thiophene Dendrimers for Organic Photovoltaics*

### **School of Mathematical Sciences**

Rhoda Deon: *Combinatorial Mathematics Representations and the Evaluation of Pedagogical Content Knowledge Among Pre and In-Service Middle School Teachers*

Clark Dollard: *Pre-Service Elementary Teachers' Thinking About Situations Involving Probability*

Tina Janelle: *Using Technology to Help Students Increase Their Van Hiele Thinking Levels*

### **School of Nursing**

Allen Hanberg: *Integrating High Fidelity, Human Patient Simulation in Nursing Education: Perceived Barriers and Recommendations for Best Practice*

Christine Nibbelink: *High Fidelity Human Patient Simulators and Nursing Student Self-Efficacy*

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

Amber Burgess: *Effects of Overweight-Based Teasing on Motivation in Youth Physical Domain Participation*

Chrysostomos Giannoulakis and Chien-Hsin (Jason) Wang: *Assessing Volunteer Motivation, Satisfaction, and Retention at a National-Scale Martial Arts Event*

Scott Ronspies: *Relationships among Body Mass Index, Daily Step Count, and Television Viewing Time in Children Ages 10 to 13 Years*

Stephen Shapiro and Alan Morse: *Ancillary Price Determination in Major League Baseball: An Empirical Analysis*

Lisa Sprod: *The Effects of Exercise Training During and Following Clinical Treatment in Breast and Prostate Cancer Survivors*

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### **Student Speaker Honorees and Nominees**

#### **Speakers**

Mariana Felix

Allen Hanberg

#### **Speaker Nominees**

Mariana Felix: Undergraduate Student, School of Chemistry, Earth Sciences and Physics (Earth Sciences)

Allen Hanberg: Graduate Student, School of Nursing

William Heyborne: Graduate Student, School of Biological Sciences

Jacqueline Hilsenbeck-Fajardo: Graduate Student, School of Chemistry, Earth Sciences and Physics (Chemistry)

Chien-Hsin (Jason) Wang: Graduate Student, School of Sport and Exercise Science