

Undergraduate Research and Creative Works

Volume 3, Issue 3

November 2013

Our mission: to engage undergraduates in student-faculty collaborations that reflect individual, unique, scholarly and imaginative experiences which promote the development of new competencies, foster critical thinking, and provide students with opportunities to add to the sum of human knowledge.

State of North Carolina Research Symposium

November 16, seven student presenters and one observer attended the State of North Carolina Research Symposium (SNCURS) accompanied by Dr. Altman (Director, Undergraduate Research and Creative Works), Dr. Cavendish (Assistant Professor, School of Education), and Drs. Fowler,

Knippenberg, and Miller (Assistant Professors of Chemistry). After last year's turn out of around 800 student presenters state-wide, these 7 grew excited to share their research with the symposium. High Point University

students gave poster and oral presentations.

Their topics varied to emphasize their majors: Psychology, Communication, Education, English, Chemistry, and Biochemistry. *(continued on p.2)*



State of North Carolina
Undergraduate Research &
Creativity Symposium



Opportunity at the Greensboro Science Center



On Saturday, November 9, Chrissie Baker, Brooke Liberto, Riley Maness, Alesa Poteres, and Cassie Behling set off on a trip, led by Dr. Altman, to the Greensboro Science Center (GSC).

There, they explored research opportunities in the three portions of the center: the zoo, aquarium, and museum.

Some examples of majors that might find research opportunities at the GSC include psychology, biology, chemistry, design, and marketing and strategic communication.

If you are interested in getting involved in research at the GSC contact Dr. Joanne Altman for more information!

Students at SNCURCS 2

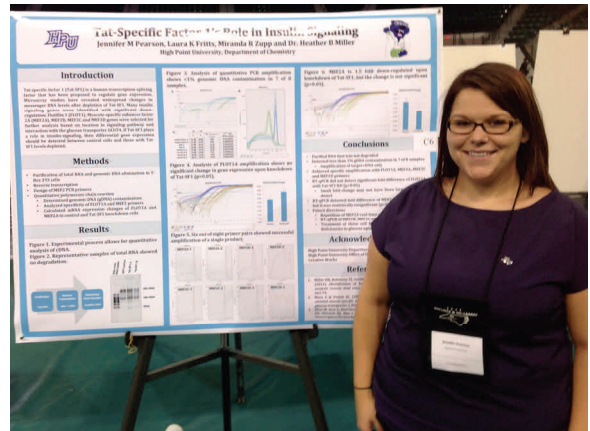
Space Panthers 3

High-PURCS has a new date! 4

HPU Journal: INnovation 4



Above: Alyssa Springer gives her oral presentation on *A Globalized Education: A Comparative Study of the International Baccalaureate and Common Core State Standards Systems*

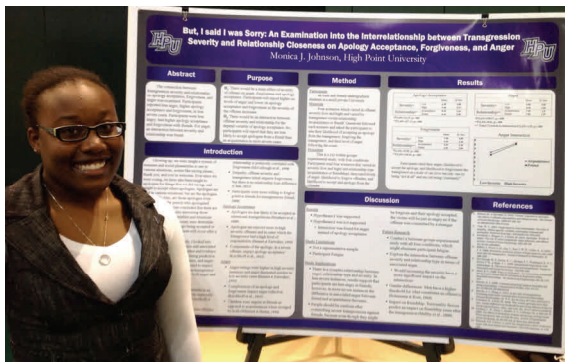


Above: Jennifer Pearson stands by her poster presentation on *Tat-specific factor 1's Role In Insulin Signaling*, co-authored with Laura Fritts

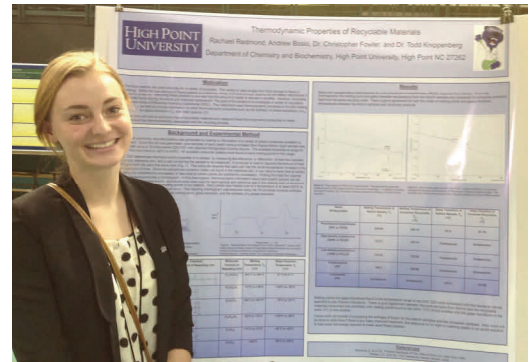


Right: Shannon Curley gives her oral presentation on *Time, Immigration, and Postcolonial Alterity in Zoila Ellis's "The Waiting Room"*

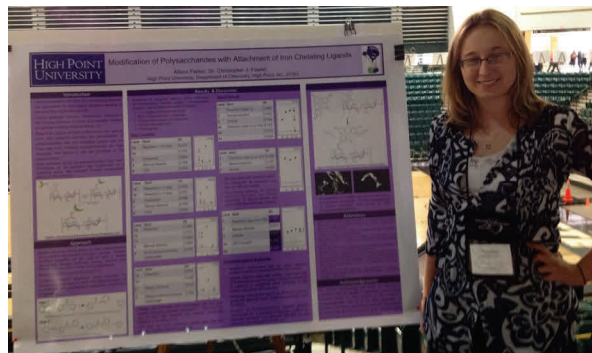
Below: Rachael Redmond presents her poster on *Measuring Thermodynamic Properties of Recyclable Materials*



Above: Monica Johnson presents her research on *An Examination into the Interrelationship between Transgression Severity and Relationship Closeness on Apology Acceptance, Forgiveness, and Anger*



Left: Alison Parker presents on *Modification of Polysaccharides with Attachment of Iron Chelating Ligands*



Not pictured: Jessica Peña gave an oral presentation on *Media Intervention in the genre of "Treatment TV"*

Research in Action: Space Panthers-1 Debrief

On the Robert's Hall lawn on November 10, at 1:20 PM, the Physics Department was represented by a team of students led by Dr. Brad Barlow: Eugene Filik, Tyler Hockett, Aaron Marlowe, Bannor Patterson, Jacqueline Simpson, and Stephen Vultaggio.

This team launched a weather-like balloon with three goals in mind: to launch a helium balloon carrying a payload to an altitude of about 100,000 feet, to capture photos and videos from this near-space altitude, and to retrieve this payload at

the end of the mission.

To accomplish these, the team created a styrofoam payload with two cameras and a High Point University water bottle, to represent the school at such great heights.

To retrieve the payload, the team beforehand predicted its approximate location at landing using weather patterns. The payload was also fitted with a GPS to aid in the retrieval. The GPS stopped working at the peak of descent, so the retrieval team stopped for coffee while waiting for signals from the payload.

Once the balloon popped at an altitude of about 90,000 feet and began its descent back to earth, GPS signals

resumed due to increasing temperatures, and the team set off once more.

Finally, after driving for hours, the team reached the landing destination: a field outside Bethel, NC. Since the Sun began to set during their mile or so hike, they had to use flashlights on their phones to aid in the search. Eventually, they found the payload completely intact, a miracle.

The Physics Department hopes to launch a balloon every semester with increasingly complex experiments.



Left: the team prepares the payload for launch on the lawn of Roberts Hall.

Right: High Point University being extraordinary at about 10,000 feet!



The Office of
Undergraduate
Research and Creative
Works

High Point University Research and Creativity Symposium

This year's High Point University Research and Creativity Symposium (High-PURCS) will occur on Reading Day (April 24, 2014). *This is a new date!*

All undergraduate students are invited to participate!

High-PURCS showcases student scholarship in a supportive environment that models a professional venue.

Students may present their work orally, in a poster format, as a brief performance, or as an exhibit. These works must exemplify

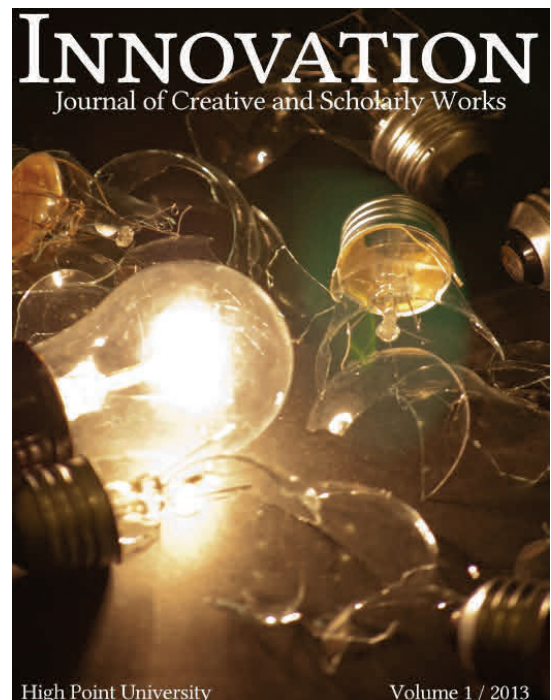
originality and creativity and reflect high quality work. Talk to your mentor about submitting your work.

Abstracts are due **March 13, 2014**—also a new date. See www.highpoint.edu/highpurcs for more details!

Be a Part of Innovation!

Submit your work of no more than 5000 words to be a part of this year's edition of HPU's journal, *Innovation: Journal of Creative and Scholarly Works*.

Since its inception last year, *Innovation* provides a place where High Point University undergraduate students can publish their scholarly and creative works. Submissions will be reviewed in the manner of any professional journal. Be a published author by the time you graduate by submitting a paper by December 31st! Recent graduates may also submit work.



Contact Us!

Dr. Joanne Altman
Office Phillips 115
urcw@highpoint.edu



www.highpoint.edu/urcw
Newsletter brought to
you by Amy King

For more information, visit the Office of Undergraduate Research and Creative Works, or contact Dr. Joanne Altman!