Poster Presentations

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ACU Undergraduate Research Festival
Hunter Welcome Center
March 28, 2011

From the Provost

Welcome to ACU’s third annual Undergraduate Research Festival. Whether you are competing in the Festival, judging entries in the competition or simply viewing and admiring students’ work, we welcome you to this event. The Undergraduate Research Festival celebrates some of the very best work of our students – work that highlights their skills and abilities and demonstrates the results of their intellectual curiosity. We celebrate the students’ creativity and critical thinking, and we applaud the partnerships with many faculty who have mentored the students in their research. Congratulations to all our undergraduate researchers!

Dr. Jeanine Varner, ACU Provost

From the Director

It is a pleasure for the ACU Office of Undergraduate Research to host the 2011 Festival. Many hours of preparation have gone into making this event a special time to showcase the work of our students who have used their God-given talents to investigate, analyze, probe, test, explore, discover, apply, and create. Increasing numbers of students and faculty are getting involved in such scholarly and creative activities as we build upon a campus-wide culture of innovation. Thank you for participating in the Festival. Thanks also to the McNair Scholars Program and the Honors College for their assistance and support. Enjoy the celebration!

Dr. Greg Powell, Director of Undergraduate Research
Participants, faculty and judges are encouraged to attend the plenary sessions described on the back page.

Paper Presentations

8:00 AM Alumni Conference Room
Evaluating the Combined Effects of RADEX and TASCO-14 on Utilization of Poor Quality Roughages by Small Ruminants – Ashley Simon, Jessica Cosby (Dr. Florah Mhlanga, Agricultural and Environmental Sciences)
Utilizing Tropical Forage Legumes to Supplement Young Goats Fed a Basal Diet of Sudangrass Hay – Tiffany Lutz, Spencer Fox (Dr. Florah Mhlanga, Agricultural and Environmental Sciences)
Population Genetic Study of the Ghost Shrimp Lepidopthalmus louisianensis – Amber Deschamps (Dr. Rebecca Hunter, Biology)

8:00 AM LYNAY Room
The Virtuous Entrepreneur – Jess Weeden (Dr. Orneita Burton, Management Sciences)
For the Love of Love: A Rhetorical Analysis of The Bachelor – Amanda Goodall (Dr. Lauren Lemley, Communication)
Learning to Overcome Adversity: A Rhetorical Analysis of Remember the Titans – Nikki Favors (Dr. Lauren Lemley, Communication)

9:00 AM Alumni Conference Room
A Spirituality of Place: Holy Space in Torah and Celtic Christianity – Rebekah Childers (Dr. Rodney Ashlock, Bible, Missions and Ministry)
Plotting Resistance: Mothers and Daughters in American Literature – Kaleigh Wyrick (Dr. Steven Moore, English)
"That Not My Wife": Paranoia in the Invasion of the Body Snatchers Films – Katherine Sinclair (Dr. Shelly Sanders, English)

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A Better Way to Make a Potential Anti-Cancer Agent – David Kempe (Dr. Greg Powell, Chemistry and Biochemistry)
Microwave-Assisted Synthesis of New Metal Compounds – Jade Yoon Joo Jung (Dr. Greg Powell, Chemistry and Biochemistry)
Behavioral Epigenetics: Reforming an Antiquated Approach to Pastoral Care – Blaine Smith, Evan Jones (Dr. Daniel Brannan, Biology)

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Influence of Science Experiences Before College Enrollment on Choice of Major – Erin Boyd (Dr. Cynthia Powell, Chemistry and Biochemistry)
Gaining Eden, Losing Eve – Sara Morris (Dr. Shelly Sanders, English)

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The Pen is Mightier Than the Sword: Bill Mauldin, Willie Joe on the World War II Battle Line – Eri Alisa Johnson (Dr. Vernon Williams, History)
Charity Volunteer Motivations – Ellen Pfeiffer (Dr. Laura Phillips, Management Sciences)

11:00 - 11:25 AM Chapel Service LYNAY Room
11:30 AM - 1:00 PM Poster Sessions & Lunch

11:00 AM LYNAY Room
Kindergartners Using Technology to Make Learning Come Alive – Tiffany Siegel, Kendra Kleine, Paul Sims (Michelle Faerber, Teacher Education)
Developing NETS-S in a High School Algebra II Class Using iPads – Cavender Campbell (Dr. Billie McConnell, Teacher Education)
Mobile Learning Worth It: An Evaluation of the Uses of Mobile Technology – Alexandra Moran (Dr. Stephen Baldridge, Social Work)

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Mobile Textbook App – Brittany Rae Ellen Knight (Dr. John Homer, School of Information Technology and Computing)
Improving an Existing Game System – Clement Ho (Dr. Brent Reeves, School of Information Technology and Computing)
A Student-Created Textbook Replacement – Courtney Richardson, Courtney Martin (Dr. Mark Phillips, Management Sciences)

2:00 PM Alumni Conference Room
Learning and Growing, The Economic Impact of Higher Education in Abilene – Joseph Austin (Dr. Monty Lynn, Management Sciences)
A Unique Voice: The Political Rhetoric of Women in 16th-Century England and 21st-Century America – Meghan Clark (Dr. Mel Halley, Political Science)
Would You Jump?: Correlates of Risk-Taking and Openness – Austin Fontaine, Kyle Anderson, Avery Weems (Cherisse Flanagan, Psychology)

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Goldbach’s Conjecture and Relative Goldbach Partitions – Houston Hutchinson (Dr. Jason Holland, Mathematics)
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Nutritional Problems of Young Children in Rural Villages in Togo, West Africa – Janna Phifer, Monica Parodi (Dr. Sheila Jones, Exercise Science)
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