

THE FIFTEENTH ANNUAL

UNDERGRADUATE  
**EXPO** '13  
APRIL 3-4 / 2013

WESTERN CAROLINA UNIVERSITY

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# **UNDERGRADUATE EXPO 2013**

Western Carolina University  
April 3-4

## **WELCOME**

The fifteenth Undergraduate Expo features 284 student presenters and 81 faculty sponsors, spread over twenty-five departments and programs in two days. Through this event, Western Carolina University celebrates undergraduate achievement, with presentations representing the creative thinking, research, practice, service, calculation, writing, and editing that occurs every day our institution is open, in studios, labs, classrooms, and in the field. Please take some time to attend a presentation, even one that is out of your discipline, to learn more about what is taught and learned at your university.

## **THE EXPO RECEPTION**

The reception for students, faculty sponsors, and the community at large will begin at 5:30 p.m. on Wednesday, April 3, in the Grand Room at the University Center. A brief program will start at 6:00 p.m. in the Grand Room, where the Recognition of Distinguished Instruction and Nurturing (RODIN) award will be announced.

## **POSTER SESSION**

The Expo Poster Session will be held in and around the University Center Grand Room from 5:00 p.m. to 6:30 p.m. on Wednesday, April 3.

## **PRESS RELEASES FOR STUDENT PRESENTERS**

WCU's Office of Public Relations routinely sends news releases about student activities and honors to the hometown/local newspapers of the students involved. Students taking part in the 2013 Undergraduate Expo who wish to take advantage of that service should visit the website <http://www.wcu.edu/22961.asp> to complete an online biographical form and submit it via email to the Public Relations Office.

The Public Relations Office also can send photographs of students to their hometown/local newspapers to accompany the news releases. Students who want to take advantage of that service are invited to come to Room 420 in H.F. Robinson Administration Building to have their photographs taken between 3:00 p.m. and 5:00 p.m. on one of these days: Thursday, April 18; Thursday, April 25; or Tuesday, May 7. Students with scheduling conflicts that prevent them from appearing at one of the photo sessions may make a special appointment to have a photo taken by calling the Public Relations Photography Office at 828-227-3081. Students' personal photos will be considered for use, depending on quality. Portrait-quality head-and-shoulders shots may be emailed to [rholcomb@wcu.edu](mailto:rholcomb@wcu.edu).

## **NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH**

This year NCUR will be on the campus of the University of Wisconsin - La Crosse at La Crosse, Wisconsin, April 11-13. Please check the program on the next page for the complete list of the 66 NCUR27 abstracts accepted; this year, WCU is tied for third in the nation in the number of accepted abstracts and is once again number one in North Carolina.

## **ACKNOWLEDGMENTS**

Without students to do the work and faculty members to mentor them, there would be no Expo. Many thanks to them, and to the deans, associate deans, directors, and department heads who did so much to help promote the Expo this year!

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# ***Got Research?***

Newly available for all research-minded Western Carolina University students and professors, the Honors College Board of Directors would like to introduce you to our student undergraduate research committee:

## ***Wheesearch.***

Our goals for this committee:

- Increase the number of students involved in Undergraduate Research
- Strengthen communication and collaboration between students and professors
- Revise the Undergraduate Research page on the Honors website
- Create new and interesting interdisciplinary projects

We are currently open for new members and ideas! Membership in the Honors College is not required for participation.

Contact us at: [jtmcmillan2@catamount.wcu.edu](mailto:jtmcmillan2@catamount.wcu.edu) to get involved **Today!**

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# **NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH 2013**

Below are the projects accepted, titles, student presenters, and their sponsors for NCUR27. Funding for travel to NCUR27 was made possible by local tuition funds earmarked for support of the Quality Enhancement Plan and undergraduate research in particular.

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## **Art & Media Studies**

### *Music Video Across Cultures*

Althea Holenko, presenter  
Peter Nieckarz, sponsor

## **Biology**

### *What's the Buzz About? Pteridine Extraction in Apis Mellifera*

Taylor Fie, Kalli Devecki, presenters  
Lori Seischab, sponsor

## **Chemistry**

### *Lanthanide-Doped Magnetite Nanoparticles as Dual-Modality Magnetic Resonance and Luminescence Imaging Agents*

Mickey Clark, presenter  
Channa R. De Silva, sponsor

### *Adsorption of Aqueous Copper (II) Ions to Aluminum Oxide Substrates*

Kanika Davis, presenter  
Carmen Huffman, sponsor

### *Synthesis and Characterization of Functionalized Cadmium Sulfide Quantum Dots for Application in DNA Sequencing Techniques*

Stefan Faulkner, presenter  
David Evanoff Jr., sponsor

### *Reactivity Models of Oxidative Stress Associated With Diabetes*

Brittini Foster, presenter  
Benjamin Hickman, Jack Summers, sponsors

### *Synthesis of Core-Shell Silver Nanoparticles with an Embedded Rare Earth Complex and Characterization of Fluorescence Enhancement*

Joseph Richardson, presenter  
David Evanoff, sponsor

### *Boron-Nitrogen and Boron-Oxygen Bond Characteristics in Phenylboronate and Phenylboroxine Complexes*

Richard Overstreet, presenter  
Carmen Huffman, sponsor

## **Criminology**

### *Conflict in the Middle East: Moving Towards the Creation of a 21st Century Apartheid*

Wesley Myers, presenter  
Cyndy Caravelis Hughes, sponsor

## **Ecology & Organismal Biology**

### *Human-Bird Interaction Desensitization: Genetic or Environmental?*

Kate Beavers, Kelsey Stover, presenters  
Jeremy Hyman, sponsor

## **Education**

### *English Language Learners: Examining Multiple Perspectives*

Haley Bridges, presenter  
Kelly Tracy, sponsor

### *Elementary Student Engagement: Comparing a Classroom Setting to a Field Experience*

Mariah Cousineau, presenter  
Patricia Bricker, sponsor

### *Opposites Attract: Studying Mathematical Literature in the Adventures of Sir Cumference*

Kriston Haynes, presenter  
Kathy Jaqua, sponsor

### *Teach Foreign Language to College Students in Their Native Language or Foreign Language?*

Kriston Haynes, presenter  
Kathy Jaqua, sponsor

*A Pedagogical Study and Manifesto: How Is North Carolina Meeting the Needs of English Language Learners in and Beyond the Public Schools?*

Jill West, presenter  
Eleanor Petrone, sponsor

**Engineering/Engineering Technology**  
*Maybe the Military Should Be Nicer*

Kaley Geyer, presenter  
Martin L. Tanaka, sponsor

**English**

*The Foulest Toad: Analyzing the Amphibian Imagery in Shakespeare's The Tragedy of Richard the Third*

Marissa Duncan, presenter  
Mary Adams, sponsor

*Onomastics at Work: Character Names in Gabriel García Márquez's One Hundred Years of Solitude*

Jessica Hurlbut, presenter  
Annette Debo, sponsor

*Colonization by Cuisine in Nervous Conditions*

Jessica Jaqua, presenter  
Brent Kinser, sponsor

*"We Got To Interact!": Natasha Trethewey's Treatment of Memory, Race, and History in Native Guard*

Kathleen McMullen, presenter  
Brent Kinser, sponsor

**Environmental Studies & Sciences**

*The Human Population Problem and its Environmental Impact*

Derrick Ellen, presenter  
David Henderson, sponsor

*Species Diversity and Vertical Distribution of Container-Inhabiting Aedes Mosquitoes as Measured by Infusion-Baited Oviposition Traps*

Michael Riles, presenter  
Brian D. Byrd, sponsor

*Fire Effects on Acorn and Hickory Nut Production in Western North Carolina*

Amber Holland, Michael W. McCloy, Brent C. Mills, Ben A. Melton, and Paul E. Pittman, presenters  
Peter C. Bates, sponsor

*Challenges to Oak Regeneration in Western North Carolina: Investigating the Role of Deer*

Mike McCloy, George Hahn, Gabriella Hovis, Ashley Mendenhall, and Michael Mustin, presenters  
Peter Bates, sponsor

*Characterizing The Potential Use of Ansi Class Z87.1 Safety Glasses for the Attenuation of UV Excimer Laser Exposure*

Tina Wells, presenter  
Burton Ogle, sponsor

**Film/Photography Studies**

*Stereotypical Representations of Africa in The Ghost and The Darkness*

Tyler Auffhammer, presenter  
Elizabeth Heffelfinger, sponsor

*Creating a Devil: How Adapting Mark Zuckerberg in The Social Network Shaped the Creation Myth of Facebook, the Internet, and a Generation*

Emily Maesar, presenter  
Elizabeth Heffelfinger, sponsor

*Film as Sexual Pedagogy and the Cultivation of Hook-Up Culture*

Kathleen McMullen, presenter  
Christopher Hoyt, sponsor

**Health Sciences & Public Health**

*Liver Enzyme Levels and the Correlation with Mortality in Liver Transplant Patients*

Peyton Flinchum, presenter  
Brenda Marques, sponsor

*Traumatic Shoulder Injury in a Collegiate Football Player*

Alessa Lennon, presenter  
Jill A. Manners, sponsor

*Validity of Morphological Characters Used to Distinguish the Mosquitoes Culex Restuans and Culex Pipiens*

Tyler McKinnish, presenter  
Brian D. Byrd, sponsor

*Abdominal Pain in a High School Football Player*

Sarah McNamara, presenter  
Charles Dingle, James Scifers, sponsors

*La Crosse Encephalitis in NC: Is This Disease Truly Emerging?*

David Rollick, presenter  
Brian Byrd, sponsor

## History

*"The Garden of Eden of the Red Man":*

*William Holland Thomas And The Americanization Of Eastern Cherokee Culture*

Andrew Benton, presenter  
Andrew Denson, sponsor

*North Carolina's Amendment One: Making History*

T'Shana McClain, presenter  
Elizabeth McRae, sponsor

*The Iron Lady: How Margaret Thatcher Helped Win the Cold War*

Caroline Parsons, presenter  
David Dorondo, sponsor

*Greed, Glory and Gods: How the Desire for Perfection Doomed the Mexica*

Elizabeth Pratt, presenter  
Gael Graham, sponsor

*Suppressing the Swastika: The American Denazification Effort within Occupied Germany, 1945-1949*

Christopher Ray, presenter  
David Dorondo, sponsor

## Law & Legal Studies

*International Promotions on Mobile Devices: Existing Law and a Proposed Model for the Future*  
Christopher Horn, presenter  
Anne B. Downing, sponsor

*Race, Diversity and Critical Mass: Is the United States Supreme Court Out of Touch with Modern Students?*

Caitlyn Ball, presenter  
Melissa English, sponsor

## Literature

*Barbed Wire in Heartwood: The Endurance of Appalachian Stereotypes from Horace Kephart to Ron Rash*

Andrew Benton, presenter  
Mae Claxton, sponsor

*Invoking the Word: Nature's Voice in "As You Like It"*

Chelsea Lantz-Cashman, presenter  
Mary Adams, sponsor

*The Constant Gardener: Representations of Africa and White Narration*

Alexa Menz, presenter  
Elizabeth Heffelfinger, sponsor

*The Sub-Creation of Man: Approaching Christian Morality within the Category of Literary Fiction*

Clare Murray, presenter  
Brent Kinser, sponsor

## Microbiology & Immunology

*The Identification of an Isolate from Kephart Prong, Great Smoky Mountains National Park*

Kelsey Stover, presenter  
Sean O'Connell, sponsor

*The Identification and Characterization of Some Indian Strains of the Human Pathogenic Yeast, Cryptococcus*

Katherine Turnbull, presenter  
Indrani Bose, sponsor

## Music

*Lowell Mason: Father of American Music Education*

Matthew Martin, presenter  
Christina Reitz, sponsor

*Maurice Ravel's Compositional Philosophies:  
As Demonstrated in "Daphnis Et Chloé"*

Leanna Smith, presenter  
Christina Reitz, sponsor

## Music Performance

*You Xiaci De Zuanshi*

Dane Morgan, presenter  
Bruce Frazier, sponsor

## Philosophy & Ethics

*Planting the Seed of Reason*

Melissa Bradley, presenter  
John Whitmire, sponsor

*The Ethics of Collateral Damage in 21st  
Century Warfare*

Paul Horton, presenter  
Kevin Schilbrack, sponsor

*The Reversal Of The Noir Hero*

Tom Pazderka, presenter  
Christopher Hoyt, sponsor

## Physics

*Atmospheric Stratification of Terrestrial  
Gamma-Ray Flashes, (TGFS) and Capture of  
Electromagnetic Phenomenon in the Southern  
Appalachian Mountain Region*

Michele Coker, presenter  
Enrique Gomez, sponsor

*Mass Transfer and Stellar Jets in Binary Star  
System Beta Lyrae*

Jessica Hurlbut, presenter  
Enrique Gomez, sponsor

## Psychology

*Changes in Women's Preferences During  
Ovulation*

Isabel Leavitt, presenter  
Thomas Ford, sponsor

*Review of Literature on Personality  
Characteristics Associated with Performance  
as a Special Forces Military Operative*

Mandy Long, presenter  
David McCord, sponsor

*Music is the Language: Personality Traits and  
Musical Preferences*

Olivia Muse, presenter  
David M. McCord, sponsor

*Examining Risk Propensity Subfactors through  
the Lens of the Five-Factor Model of  
Personality*

Sarah Zucca, presenter  
David McCord, sponsor

*Military Families: Deployment Impact on  
College Students*

David Chandler, Meridia Sanders, Isabel Leavitt,  
presenters  
Candace Boan, Mickey Randolph, sponsors

*Transgender in Service: Focusing on a Better  
Outlook on the Transgender Community*

Katie Salmons, Miranda Dickens, presenters  
Mickey Randolph, sponsor

## Sociology

*The Case of Class in Hayao Miyazaki's  
'Spirited Away'*

Kelsey Hales, presenter  
Brent Kinser, sponsor

*North Carolina's Harvest of Shame*

Jessica McLamb, presenter  
Lori Oxford, sponsor

*Contributing Factors to Rape Culture on  
College Campuses: Small Rural University*

Caitlin Armer, presenter  
Marilyn Chamberlin, sponsor

*Did Lenin Pollute Marx's Theory of  
Communism? A Study of Lenin's Interpretation  
of Marx's Theory of Communism*

Jacob Marlowe, presenter  
Peter Nieckarz, sponsor

## Theatre/Drama

*The Revival of the Ribbon Cockade*

Ashton Bennett, presenter  
Susan Brown-Strauss, sponsor

*Men's Style in Hollywood in the 1930's*

Paul Thiemann, presenter  
Susan Brown-Strauss, sponsor

# UNDERGRADUATE EXPO 2013

Presentations will be held at Western Carolina University, April 3-4, according to college and department. Below are project titles, presenters, sponsors, time, and place of presentation.

\* denotes a presentation also selected for NCUR 27

## WEDNESDAY, APRIL 3, 2013

### POSTER SESSION

**5:00 - 6:30 PM UNIVERSITY CENTER GRAND ROOM & LOBBY**

Students are invited to set up posters in the Grand Room after 4:00 p.m.

## COLLEGE OF ARTS AND SCIENCES

### Anthropology & Sociology

#### *The Effects of Tarp Coverings on Decomposition Rates*

Student Presenters: Abigail Rich, Sarah Capron  
Faculty Sponsor: Cheryl Johnston

### Biology

#### \* *The Identification and Characterization of Some Indian Strains of the Human Pathogenic Yeast, Cryptococcus*

Student Presenter: Katherine Turnbull  
Faculty Sponsor: Indrani Bose

#### \* *The Identification of An Isolate from Kephart Prong, Great Smoky Mountains National Park*

Student Presenter: Kelsey Stover  
Faculty Sponsor: Sean O'Connell

### Chemistry & Physics

#### *Determination of Antimicrobial Activity of Nano-Materials*

Student Presenter: Kristy Martin Rogers  
Faculty Sponsor: Channa R. De Silva

#### *Development of Human Melanoma Cancer Cell-targeted Peptide ligands for Potential Drug Screening*

Student Presenter: Tess C. Branon  
Faculty Sponsor: Channa R. De Silva

#### \* *Lanthanide-doped magnetite nanoparticles as dual modality magnetic resonance and luminescence imaging agents*

Student Presenter: Mickey L. Clark  
Faculty Sponsor: Channa R. De Silva

#### *Methods for Determining Hydrogen Sulfide Gas*

Student Presenters: Alexandra Shuey, Zackary Rogers, Jenny Collins  
Faculty Sponsor: Jack Summers

#### \* *Reactivity Studies of Compounds that Model Protein Modifications Associated with Oxidative Stress and Diabetic Complications*

Student Presenter: Brittni Foster  
Faculty Sponsor: Jack Summers

#### *Synthesis of silver-Teflon AF nanocomposites and their application in surface enhanced Raman spectroscopy*

Student Presenter: Kristin Cooke  
Faculty Sponsor: David D. Evanoff, Jr.



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## **COLLEGE OF ARTS AND SCIENCES [CONTINUED]**

### Chemistry & Physics, Forensic Science Program

#### *Optimal DNA Primer Design for Non-Invasive Identification Across Taxa*

Student Presenters: Sofia C Lilly, Jenny Ross

Faculty Sponsor: Patricia A Foley

#### *Protocol Optimization for Analysis of the Dopamine Receptor D4 Polymorphism Associated with Increased Risk Taking Behavior*

Student Presenters: Jessica Allen, Raechal Leonard,  
Kelsy Stillwell

Faculty Sponsor: Patricia A Foley

### Mathematics & Computer Science

#### *A Role Playing Game (RPG) Toolkit*

Student Presenters: Christopher Sanford, Spike Dog

Faculty Sponsor: Mark A. Holliday

#### *An Android-Based Multi-User Card Game*

Student Presenters: Michael Penland, Tyler McKinney

Faculty Sponsor: Mark A. Holliday

#### *Hazard Detection and Avoidance Using OpenCV*

Student Presenters: Josh Harris, Jordan Chapman

Faculty Sponsor: Mark A. Holliday

#### *Implementing a NoSQL Distributed Database System*

Student Presenters: Brian Lenau, Bill Franklin

Faculty Sponsor: Mark A. Holliday

### Modern Foreign Languages

#### *Japan I: Past, Present, and Future Vol. 3*

Student Presenters: Brandee Harris, Shahidah Uthman

Faculty Sponsor: Yumiko Ono

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## **COLLEGE OF BUSINESS**

### Accounting, Finance, Computer Information Systems and Economics

#### *Talk to Me: Cherokee Syllabary Game*

Student Presenter: Blake Bowen

Faculty Sponsor: Dan Clapper

### Business Administration & Law and Sport Management

#### *An Annotated Contract*

Student Presenter: Adam Keiper

Faculty Sponsor: Debra Burke

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# **COLLEGE OF EDUCATION AND ALLIED PROFESSIONS**

## Human Services

### *Cullowhee: Is it the Place to Be?*

Student Presenters: Sarah Stokes, Dustin Penny,  
Carmen Rice  
Faculty Sponsor: Freya Kinner

### *\*Sexist Humor Impairs Women's Performance on the Stroop Color-naming Task*

Student Presenters: Isabel Leavitt, Shaun Lappi,  
Andrew Beveridge, Alyna Ohanmamooreni  
Faculty Sponsor: Thomas Ford

## Psychology

### *50 Shades of Grey: Attitudes toward Sadomasochism and Feminism*

Student Presenter: Morgan Nunnery  
Faculty Sponsor: Hal Herzog

### *\* Examining Risk Propensity Subfactors Through the Lens of the Five-Factor Model of Personality*

Student Presenter: Sarah B. Zucca  
Faculty Sponsor: David McCord

### *Fear of Germs and Love for Animals: Is There A Connection?*

Student Presenter: Andrew Roush  
Faculty Sponsor: Hal Herzog

### *Music and Attention: The Beginning of a New Phrase?*

Student Presenter: Kaitlin Saulter  
Faculty Sponsor: Windy Gordon

### *Sufficiency of Negative Affect in Predicting Amusement with Disparagement Humor*

Student Presenters: Andrew Beveridge, Isabel Leavitt,  
Whitney Petit, Shaun Lappi  
Faculty Sponsor: Thomas Ford

### *\* The Effects of Stereotyping on Men and Women who Conform to Society's Expectations of Beauty*

Student Presenter: Olivia Muse  
Faculty Sponsor: Erin Myers

### *\* Transgender In Service: Focusing on a Better Outlook on the Transgender Community*

Student Presenters: Katie Salmons, Miranda Dickens  
Faculty Sponsor: Mickey Randolph

## School of Teaching and Learning

### *The Effects of Stem Cell Therapy on Injury Recovery*

Student Presenter: David Lindsey  
Faculty Sponsor: Maridy Troy

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# **COLLEGE OF FINE AND PERFORMING ARTS**

## School of Art and Design

### *Life-Cycle Assessment of Marmoleum Flooring*

Student Presenter: Aprilyn Arca  
Faculty Sponsor: Erin Adams

## School of Stage and Screen

### *\* Revival of the Ribbon Cockade*

Student Presenter: Ashton Bennett  
Faculty Sponsor: Susan Brown-Strauss

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# **HEALTH AND HUMAN SCIENCES**

## **Criminology and Criminal Justice**

### *African American Segregation*

Student Presenter: Dalton Scoles  
Faculty Sponsor: Cynthia Caravelis Hughes

### *African Americans*

Student Presenter: Nicolas Westmoreland  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Alcohol Consumption and Sexual Assault on College Campuses*

Student Presenter: Melissa McAbee  
Faculty Sponsor: Jamie Vaske

### *An Examination of General Strain Theory as Reflected in the Media*

Student Presenter: Meagan Pittman  
Faculty Sponsor: Stephen Brown

### *Behind Closed Doors: Women in the CJ System*

Student Presenter: Melissa McAbee  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Beware of the Dog: Cannabis Use on Campus*

Student Presenters: Daniel Rosenheim, Michael Eid, Taylor Barnes, Tyler Stafford, Shemekia Scotton  
Faculty Sponsor: Jamie Vaske

### *Combating Underage Drinking on WCU's Campus*

Student Presenters: Samantha Brothers, John Lineberry, Josh McMahan, Jacob Tipton, Nate Murphy  
Faculty Sponsor: Jamie Vaske

### *Comparing the Likelihood of Engaging in Assault Across Studies*

Student Presenters: Ethan Carter, Jason Buckland, Casey Elliott, Christian King  
Faculty Sponsor: Jamie Vaske

### *Community Policing across Charlotte, Asheville, and Raleigh Police Departments*

Student Presenter: Jonathan Martin Williams  
Faculty Sponsor: Stephen Brown

### *\* Conflict in the Middle East: Moving Towards the Creation of a 21st Century Apartheid*

Student Presenter: Wesley McCoy Myers  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Conflict Versus Consensus Models*

Student Presenter: Ashley Hemsath  
Faculty Sponsor: Albert Kopak

### *Difficult Moral Decisions*

Student Presenters: John Lineberry, Michael Klakamp, Jimmy Pease, Rex Cable, Michael Parks  
Faculty Sponsor: Jamie Vaske

### *Does Everybody Really Drink and Drive? The Likelihood of Drinking and Driving in a Scenario*

Student Presenters: Ashely McGee, Chris Davis, Jacole Dunlap, Casey Hester  
Faculty Sponsor: Jamie Vaske

### *Does Impulsivity Correlate with the Perceived Guilt of Being Caught for Committing an Offense?*

Student Presenters: Christina Robinson, Kelli Stewart, Kyle Brouillette, Adam Curtis  
Faculty Sponsor: Jamie Vaske

### *Don't Be a Menace*

Student Presenters: Kristina Edmondson, Nick Stone, Juan Guevara, Junea Ruff, Dina Arsenovich  
Faculty Sponsor: Jamie Vaske

### *Dont Ask, Don't Tell*

Student Presenter: Levi Gragg  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Don't Ask, Don't Tell*

Student Presenter: Ashley McGee  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Double Minorities*

Student Presenter: Shealgh Scanga  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Drug Laws in Social Justice Issues*

Student Presenter: Chase Worley  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Female Criminality Explained Through Parental Attachment and Involvement*

Student Presenter: Amelia Mittan  
Faculty Sponsor: Maggie Orender

## **HEALTH AND HUMAN SCIENCES [CONTINUED]**

*Five Years After the Virginia Tech Massacre  
- How Have North Carolina Colleges  
and Universities Complied with the Attorney  
General's Task Force Recommendations?*

Student Presenters: Sarah Summerton, Rusty Bell,  
Emily Sharpe  
Faculty Sponsor: Thomas C. Johnson

*Gay Marriage in Today's Society*

Student Presenter: Andrew Prusik  
Faculty Sponsor: Cynthia Caravelis Hughes

*Gun Control: Cultural Comparison*

Student Presenter: Erica Azoulay  
Faculty Sponsor: Lisa Briggs

*Hate Crimes Against African Americans*

Student Presenter: Jestin Fritts  
Faculty Sponsor: Cynthia Caravelis Hughes

*Hate Crimes and Homosexuality*

Student Presenter: Rebecca McKerlie  
Faculty Sponsor: Cynthia Caravelis Hughes

*Human Trafficking*

Student Presenter: Emily Jaynes  
Faculty Sponsor: Stephen Brown

*I'm Not Always Impulsive, but When I am it's  
the Death Penalty*

Student Presenters: Cory Shrepshire, Jessica Allen,  
James Simmons  
Faculty Sponsor: Jamie Vaske

*Is Law Against Islam?*

Student Presenter: James Simmons  
Faculty Sponsor: Cynthia Caravelis Hughes

*Juvenile Diversion*

Student Presenter: Gina Piekarski  
Faculty Sponsor: Cynthia Caravelis Hughes

*Larceny of Student Property*

Student Presenters: Trevor Dunlap, Brittani Cachine,  
Derrick Campbell, Josh Sims  
Faculty Sponsor: Jamie Vaske

*Last Dance with Mary Jane*

Student Presenters: Meagan Pittman, Rex Cable, Spen-  
cer Lockridge, Ashley McGee, Dustin Tucker  
Faculty Sponsor: Jamie Vaske

*Legal Representation Issues*

Student Presenter: Abigail Smith  
Faculty Sponsor: Cynthia Caravelis Hughes

*Let's Start a Fight*

Student Presenters: Janae McKinney, Moises Salazar,  
Zach Warden, Ethan Carter, Jason Buckland  
Faculty Sponsor: Jamie Vaske

*Police Corruption in South Africa and the  
United States: A Cross-Cultural Comparison*

Student Presenter: Mary Hannah Hughes  
Faculty Sponsor: Cynthia Caravelis Hughes

*Presence of Taq1A Polymorphism and  
Depressive Symptoms*

Student Presenter: Kortney Schumann  
Faculty Sponsor: Jamie Vaske

*Relationship Between Perceived Guilt of  
Getting Caught for Drunk Driving and  
Likelihood to Drive Drunk*

Student Presenters: Paige McClain, Christian Lovingood,  
Nickolis Kerrigan, Jestin Fritts  
Faculty Sponsor: Jamie Vaske

*Rule of Law and Public Confidence in Law  
Enforcement*

Student Presenter: Adam Canipe  
Faculty Sponsor: Hoon Lee

*Solutions to Student Larceny on WCU's  
Campus*

Student Presenters: Matthew Barkiewicz, Jessica Allen,  
Cory Hipp, Rainey Ala, Steven Coffman  
Faculty Sponsor: Jamie Vaske

*South Africa*

Student Presenter: Shane Huston  
Faculty Sponsor: Cynthia Caravelis Hughes

*The Abuse of Methamphetamine In Indian  
Country*

Student Presenter: Desirae Cooper  
Faculty Sponsor: Cynthia Caravelis Hughes

*The Relationship Between Moral Decision  
Making & the Death Penalty*

Student Presenters: Curtis Thompson, Moises Salazar,  
Anna McAbee, Kelsey Holden  
Faculty Sponsor: Jamie Vaske

## **HEALTH AND HUMAN SCIENCES [CONTINUED]**

### *The Silent Victims*

Student Presenter: Summer Brathwaite  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Tourist Victimization*

Student Presenter: Kortney Schumann  
Faculty Sponsor: Lisa Briggs

### *Underage Consumption in Cullowhee*

Student Presenters: Meridia Sanders, Chase Worley,  
Josh Gilchrist, Zeb McSwain, Abigail Smith  
Faculty Sponsor: Jamie Vaske

### *Whee Collide: WCU Traffic Collisions*

Student Presenters: Brad Bermudez, Lisa Oliver,  
Monique Machado, Morgan Strader  
Faculty Sponsor: Jamie Vaske

### *Why the Collisions?*

Student Presenters: Anthony Wicklund, Richard  
Millsaps, Michael Johnson, Anna McAbee, Bradly Farra  
Faculty Sponsor: Jamie Vaske

### *Women's Rights*

Student Presenter: Kendra Curtice  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Women's Rights*

Student Presenter: Taylor Feimster  
Faculty Sponsor: Cynthia Caravelis Hughes

## School of Health Sciences

### School of Health Sciences - Emergency Medical Care Program

#### *Influence of Vasopressin on Achieving Out-of- Hospital Return of Spontaneous Circulation*

Student Presenters: Brittany McCormick, Casey  
Schmidt, Benjamin Young  
Faculty Sponsor: Michael Hubble

#### *Probability of Return of Spontaneous Circula- tion as a Function of Timing of Vasopressor Ad- ministration in Out-of-Hospital-Cardiac-Arrest*

Student Presenters: Christopher Johnson, Jamie Black-  
welder, Jonina Wisner  
Faculty Sponsor: Michael Hubble

### School of Health Sciences - Athletic Training

#### *A Unique Cervical Spine Injury In A High School Football Player*

Student Presenter: Andrew Godinez  
Faculty Sponsor: Rob Dingle

#### *A Unique Eye Injury in a Collegiate Soccer Player*

Student Presenter: Megan Kurzec  
Faculty Sponsor: Rob Dingle

#### *A Unique Presentation of Herpes Zoster in a Collegiate Baseball Player*

Student Presenter: Kelly Hoots  
Faculty Sponsor: Jill Manners

#### *\* Abdominal Pain in a High School Football Player*

Student Presenter: Sarah Elizabeth McNamara  
Faculty Sponsor: Jill Manners

#### *Arthrofibrosis Post ACL Reconstruction in Female Soccer Player*

Student Presenter: Alexa Gallo  
Faculty Sponsor: Jill Manners

#### *Clinical Evaluation and Management of Bilateral Chronic Heel Pain*

Student Presenter: Ruby Floyd  
Faculty Sponsor: Jill Manners

#### *Insidious Onset Hand Pain in a Collegiate Volleyball Player*

Student Presenter: Kyra Dodson  
Faculty Sponsor: Rob Dingle

#### *Insidious Onset Hip Pain in a Recreational Female Athlete*

Student Presenter: Elizabeth Ballard  
Faculty Sponsor: Jill Manners

#### *Navicular Cyst in a Collegiate Football Player*

Student Presenter: Brittany Rodden

## **HEALTH AND HUMAN SCIENCES [CONTINUED]**

Faculty Sponsor: James Scifers

### *Osteochondral Lesion in a Collegiate Basketball Player*

Student Presenter: Joshua Edwards  
Faculty Sponsor: James Scifers

### *Traumatic Knee Injury in a Collegiate Football Player*

Student Presenter: Nichole Eads  
Faculty Sponsor: Rob Dingle

### *\* Unique Upper Extremity Injury In A Collegiate Male Gymnast*

Student Presenter: Alessa Lennon  
Faculty Sponsor: James Scifers

### School of Health Sciences - Environmental Health Program

### *\* A Vertical Distribution of Container-Inhabiting Aedes Mosquitoes in a LaCrosse Endemic Area*

Student Presenters: Michael T. Riles, Hope Mason  
Faculty Sponsor: Brian D. Byrd

### *\* Characterizing the Potential Use of ANSI Class Z87.1 Safety Glasses for the Attenuation of UV Excimer Laser Exposure*

Student Presenter: Tina Wells  
Faculty Sponsor: Burton Ogle

### *\* La Crosse Encephalitis in NC: Is This Disease Truly Emerging?*

Student Presenter: David Rollick  
Faculty Sponsor: Brian D. Byrd

### *Occupational Noise Exposure in the Operating Room*

Student Presenter: Levi Mines  
Faculty Sponsor: Tracy Zontek

### *Radon in Water*

Student Presenters: Alexandra Cassell, Cody Dunlap  
Faculty Sponsor: Tracy Zontek

### *Survey of South Carolina Industrial Site Blue Flag Procedure Compliance*

Student Presenter: Joshua Turner  
Faculty Sponsor: Tracy Zontek

### *Translation versus Communication: The Pitfalls of English-to-Spanish Safety Education*

Student Presenter: Wendy Grijalva  
Faculty Sponsor: Burton Ogle

### *Understanding and Controlling Occupational Exposures to Rabies*

Student Presenter: Perry H. Fotopoulos  
Faculty Sponsor: Burton Ogle

### *\* Validity of Morphological Characters used to Distinguish Culex restuans and Culex pipiens: an Argument for Evidence-based Hierarchies in Taxonomic Keys*

Student Presenter: Tyler McKinnish  
Faculty Sponsor: Brian D. Byrd

### School of Health Sciences - Nutrition - Dietetics Program

### *"Cage-free" Eggs and Perception of Egg Nutrition*

Student Presenters: Bret Moura, Chris Fortune  
Faculty Sponsor: Brenda G. Marques

### *Knowledge of Folic Acid Supplementation Benefits among High School Students*

Student Presenters: Emily Farrell, Ashley Jones  
Faculty Sponsor: April Tallant

### *Results of a Self-Administered Sports Nutrition Education Intervention for University Club Sport Athletes*

Student Presenters: Olivia Whitman, Lauren Keleher, John Woods  
Faculty Sponsor: April Tallant

### School of Nursing

### *The Obesity Epidemic: Health Effects and Reducing Health Risks*

Student Presenter: Charlene Anne Haug  
Faculty Sponsor: Carol MacKusick

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**TUESDAY, APRIL 2, 2013**

**PRESENTATION**

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**HEALTH AND HUMAN SCIENCES**

School of Nursing

Time: 10:00 AM      Place: Health and Human Sciences Building 211

*The YEAH Group: Increasing Health Service Utilization for Adolescents*

Student Presenters: Christopher Ericson, Kelly Haney, Katlyn Moss, Allison Simpkins,  
Dathan Wilds

Faculty Sponsor: Elizabeth Sexton

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**WEDNESDAY, APRIL 3, 2013**

**PRESENTATIONS**

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**ARTS AND SCIENCES**

Anthropology & Sociology

Time: 12:15 PM      Place: McKee 114  
*Contributing Factors to Rape Culture on  
College Campuses: Small Rural University*

Student Presenter: Caitlin Armer  
Faculty Sponsor: Marilyn Chamberlin

Time: 12:15 PM      Place: McKee 110  
*Losing My Religion: Understanding the Rise of  
'None' Culture as a Form of Deviance*

Student Presenter: Ashley Boaeuf  
Faculty Sponsor: Kathleen M. Brennan

Time: 12:15 PM      Place: McKee 114  
*Street Harassment and Objectification: What  
Happens When Sexism is Redefined as a  
Compliment?*

Student Presenter: Zuleyka Hamilton  
Faculty Sponsor: Heather Talley

Time: 12:15 PM      Place: McKee 110  
*Self-Conceptions of Religious Minorities at  
Western Carolina University*

Student Presenter: Joseph Rehak  
Faculty Sponsor: Kathleen M. Brennan

Time: 12:15 PM      Place: McKee 110  
*The Sociological Social Psychology of  
Managing Emotions*

Student Presenter: Mary Snodgrass  
Faculty Sponsor: Kathleen M. Brennan

Time: 5:00 PM      Place: McKee 114  
*Diabetic Warrior: A Study of Diabetes within the  
EBCI Population*

Student Presenter: Cara Amera Forbes  
Faculty Sponsor: Robert J. Conley

## **ARTS AND SCIENCES [CONTINUED]**

### English

Time: 2:30 PM            Place: Coulter 202  
*How the Miracle on Ice Changed the Cold War*  
Student Presenter: Dylan Pellom  
Faculty Sponsor: Kendra Coker

Time: 2:30 PM            Place: Coulter 205  
*The Lengths that Journalism Will Take You*  
Student Presenter: Rebecca D. Roberts  
Faculty Sponsor: Kendra Coker

Time: 3:00 PM            Place: Coulter 205  
*Are Cellphones Actually Beneficial to  
Communication and Education?*  
Student Presenter: William Gant  
Faculty Sponsor: Kendra Coker

### History

Time: 2:30 PM            Place: McKee 214  
*Economic Exploitation and the Trail of Tears*  
Student Presenter: Alice Lapoint  
Faculty Sponsor: Laura Cruz

Time: 2:50 PM            Place: McKee 214  
*The Scandals Defining Thomas Lainer  
Clingman*  
Student Presenter: Amanda Herbin  
Faculty Sponsor: Richard D. Starnes

Time: 3:10 PM            Place: McKee 214  
*Quar Words Gon Up A Cotch Aujience: The  
Appalachian Language*  
Student Presenter: Tisha Carver  
Faculty Sponsor: Mary Ella Engel

### Philosophy and Religion

Time: 9:05 AM            Place: McKee 215  
*\* Planting the Seed of Reason*  
Student Presenter: Melissa Bradley  
Faculty Sponsor: John Whitmire

Time: 9:05 AM            Place: McKee 215  
*Innate Ideas: Are We Born with Knowledge*  
Student Presenter: Kortney Schumann  
Faculty Sponsor: Daryl Hale

## **COLLEGE OF BUSINESS**

### Global Management and Strategy

Time: 12:00 PM            Place: Forsyth 214  
*Eastern Band of Cherokee Government: Then and Now*  
Student Presenter: J.D. Arch  
Faculty Sponsor: Edward Wright

## **COLLEGE OF EDUCATION AND ALLIED PROFESSIONS**

### Human Services

Time: 10:15 AM            Place: Reid 122H  
*A Shop Named SARA*  
Student Presenters: Nick Provost, Peter Moyle  
Faculty Sponsor: Debby Singleton

Time: 10:30 AM            Place: Reid 122H  
*Gender Equity in Recreation*  
Student Presenters: Anthony W. Franklin Sr.,  
Steven Arico  
Faculty Sponsor: Ben Tholkes

Time: 10:45 AM            Place: Reid 122H  
*Double J Fly Fishing*  
Student Presenters: Jason Williamson, Jordan Grant  
Faculty Sponsor: Debby Singleton

Time: 11:15 AM            Place: Reid 109  
*Outdoor Recreation Survey*  
Student Presenters: Lindsey Newsom, David Ludwig  
Faculty Sponsor: Ben Tholkes



## **COLLEGE OF EDUCATION AND ALLIED PROFESSIONS [CONTINUED]**

Time: 11:30 AM Place: Reid 109  
*Pantherstown Use Research*  
Student Presenters: James Yates, James Houtzer  
Faculty Sponsor: Ben Tholkes

Time: 11:45 AM Place: Reid 109  
*Nantahala River Study*  
Student Presenters: Zedron Porter, Cody Jones, Jordan Grant  
Faculty Sponsor: Cass Morgan

### **Psychology**

Time: 9:00 AM Place: Killian 304  
*\* Correlations Between the Inclusion of Other in Self Scale and the Five-factor Model of Personality*  
Student Presenters: Mandy Long, Miranda Spain  
Faculty Sponsor: David McCord

Time: 11:00 AM Place: McKee G09  
*The Development of Brain and Cognition from Pre-natal through Infant Age*  
Student Presenter: Merab Mushfiq  
Faculty Sponsor: Tonya L. Basse

Time: 11:15 AM Place: Killian 221  
*The Affects of Prosocial and Antisocial Videogame Priming: A Proposed Study*  
Student Presenter: Summer Brathwaite  
Faculty Sponsor: Thomas Ford

## **COLLEGE OF HEALTH AND HUMAN SCIENCES**

### **Communication Sciences & Disorders**

Time: 9:35 AM  
Place: Health and Human Sciences Building 187  
*A Study of Learning Styles Linked to Learning the International Phonetic Alphabet*  
Student Presenter: Angela R Chapman  
Faculty Sponsor: Georgia Hambrecht

## **COLLEGE OF FINE AND PERFORMING ARTS**

### **School of Art and Design**

Time: 9:00 AM Place: BAC 162  
*Surgery 101 for the Junior Librarian: An Introduction to Library Materials Conservation*  
Student Presenter: Amelia Holmes  
Faculty Sponsor: Matt Liddle

## **THE KIMMEL SCHOOL**

### **Engineering & Technology**

Time: 10:00 AM Place: Belk 104  
*The Plug-in Electric Bicycle*  
Student Presenters: Steven Padgett, Allen Overstreet  
Faculty Sponsor: Bora Karayaka

# THURSDAY, APRIL 4, 2013

## PRESENTATIONS

### ARTS AND SCIENCES

#### Biology

Time: 12:30 PM      Place: McKee 133  
\* *Human-Bird Interaction Desensitization: Genetic or Environmental?*  
Student Presenter: Kate Beavers, Kelsey Stover  
Faculty Sponsor: Jeremy Hyman

#### Chemistry & Physics

Time: 9:30 AM      Place: Natural Sciences 01  
*How Polysaccharides and other Biopolymers are Synthesized from Simpler Molecules in the Human Body*  
Student Presenter: Merab Mushfiq  
Faculty Sponsor: Michael Van Dyke

Time: 12:30 PM  
Place: University Center Dogwood Room  
\* *Atmospheric Stratification of Terrestrial Gamma-ray Flashes, (TGFs) and Capture of Electromagnetic Phenomenon in the Southern Appalachian Mountain Region*  
Student Presenters: Michele Coker, Daniel DeCourt, Dalton Smith  
Faculty Sponsor: Enrique Gomez

#### English

Time: 9:30 AM      Place: Coulter 102  
*Anonymous*  
Student Presenter: Paul O'Brien  
Faculty Sponsor: Laura Samal

Time: 9:30 AM      Place: Coulter 102  
*The Insanity Defense*  
Student Presenter: Chelsea Owens  
Faculty Sponsor: Laura Samal

Time: 12:30 PM      Place: Coulter 102  
\* *Barbed Wire in Hardwood: The Endurance of Appalachian Stereotypes from Kephart to Rash*  
Student Presenter: Andrew Benton  
Faculty Sponsor: Mae Claxton

Time: 12:30 PM      Place: Coulter 102  
\* *Stereotypical Representations of Africa in The Ghost and the Darkness*  
Student Presenter: Tyler Auffhammer  
Faculty Sponsor: Elizabeth Heffelfinger

Time: 12:30 PM      Place: Coulter 102  
\* *The Constant Gardener As Told By A White Person*  
Student Presenter: Lex Menz  
Faculty Sponsor: Elizabeth Heffelfinger

Time: 12:30 PM      Place: Coulter 102  
*The Cape Is A Lie: Superheroes and American Morality*  
Student Presenters: Preston Beaver, Andrew Benton  
Faculty Sponsor: Pamela Duncan

#### History

Time: 2:50 PM      Place: McKee 214  
*The Industrialization of the American South and the Feminine Identity*  
Student Presenter: Kristen Arrington Stiles  
Faculty Sponsor: Richard D. Starnes

Time: 3:10 PM      Place: McKee 214  
\* *The Saturday Special: Homeruns and Homespun Heroes*  
Student Presenter: Chelsea Lantz-Cashman  
Faculty Sponsor: Richard D. Starnes

## **ARTS AND SCIENCES [CONTINUED]**

Time: 3:40 PM            Place: McKee 214  
*Reporting on the End of Empire: British  
Response to Indian Independence Through  
the Media*

Student Presenter: Emily Moody  
Faculty Sponsor: Elizabeth Yale

### **Philosophy and Religion**

Time: 11:15 AM            Place: Stillwell 225  
*Locke's Argument for God's Existence*

Student Presenter: Amanda Mitchell  
Faculty Sponsor: Daryl Hale

Time: 12:00 PM            Place: Stillwell 225  
*Gassendi on Cartesian Praejudicia*

Student Presenter: Esther Ransom  
Faculty Sponsor: Daryl Hale

Time: 12:30 PM            Place: Stillwell 225  
*On the Relation of Knowledge and Ideas  
in John Locke's Epistemology*

Student Presenter: Walker Dorsett  
Faculty Sponsor: Daryl Hale

## **COLLEGE OF BUSINESS**

### **Business Administration & Law and Sport Management**

Time: 9:30 AM            Place: Forsyth 213  
*The Twilight of the American Dream: The  
Southern Hospitality at Crisis in Cashiers. NC*

Student Presenter: Anna Inochkina  
Faculty Sponsor: Lorrie Willey

Time: 12:30 PM            Place: Forsyth 213  
*Social Networking and Marketing*

Student Presenter: Ashley Stalnaker  
Faculty Sponsor: Janet Ford

Time: 1:00 PM  
Place: Forsyth Wells Fargo Auditorium  
*\* International Promotions on Mobile Devices:  
Existing Law and a Proposed Model for the  
Future*

Student Presenter: Christopher L. Horn  
Faculty Sponsor: Anne Downing

## **COLLEGE OF EDUCATION AND ALLIED PROFESSIONS**

### **Psychology**

Time: 8:00 AM  
Place: Fine and Performing Arts Center 130  
*Socialization in Preschool Children*

Student Presenter: Amy Griffin  
Faculty Sponsor: Ellen Sigler

Time: 9:30 AM            Place: Killian 302P  
*\* Review of Literature on Personality  
Characteristics Associated with Performance  
as a Special Forces Military Operative*

Student Presenter: Mandy Long  
Faculty Sponsor: David McCord

### **School of Teaching and Learning**

Time: 12:30 PM            Place: Killian 222  
*\* Elementary Student Engagement: Compar-  
ing A Classroom Setting To A Field Experience*

Student Presenter: Mariah Cousineau  
Faculty Sponsor: Patricia Bricker

# COLLEGE OF FINE AND PERFORMING ARTS

## School of Music

Time: 2:00 PM                      Place: Coulter 358  
*Arranging Classical Music for a Jazz Combo*  
Student Presenter: Amy Brown  
Faculty Sponsor: Christina Reitz

Time: 2:00 PM                      Place: Coulter 358  
*\* Ravel's Compositional Philosophies: As Demonstrated in "Daphnis et Chloe"*  
Student Presenter: Leanna Smith  
Faculty Sponsor: Christina Reitz

Time: 2:30 PM                      Place: Coulter 358  
*A Boy and His Mandolin: The Story of Bluegrass*  
Student Presenter: Melissa Drake  
Faculty Sponsor: Christina Reitz

Time: 2:30 PM                      Place: Coulter 358  
*The Cajon: Instrument of the Slave*  
Student Presenter: Hunter Dodson  
Faculty Sponsor: Christina Reitz

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Western Carolina University Undergraduate Saxophone Quartet Performance*  
Student Presenters: Martin Baker, Ward Wilson, Madison Turnmire, Ethan Dyer  
Faculty Sponsor: Ian Jeffress

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Primary Ignition*  
Student Presenter: Justin T. Beebe  
Faculty Sponsor: Travis Bennett

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Suite of Old Lettish Dances, By: Andrejs Jansons*  
Student Presenters: Christine Hughes, Eric Jackson, Leanna Smith, Justin Beebe, Henry Leavitt  
Faculty Sponsor: Will Peebles

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Serenade by Paul Basler*  
Student Presenter: Katelyn Johnson  
Faculty Sponsor: Travis Bennett

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Nocturnal Dance*  
Student Presenter: Andrew King  
Faculty Sponsor: Mario A. Gaetano

Time: 5:00 PM                      Place: Coulter Recital Hall  
*\*You Xiaci de Zuanshi*  
Student Presenter: Dane Morgan  
Faculty Sponsor: Bruce Frazier

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Tuba Quartet*  
Student Presenters: Brittain Nichols, Kent Dyer, Andre Thacker, Tim Sale  
Faculty Sponsor: Travis Bennett

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Polaris by Mark Ford*  
Student Presenter: Christopher Smith  
Faculty Sponsor: Mario A. Gaetano

Time: 5:00 PM                      Place: Coulter Recital Hall  
*\* Concertante in Bb for Clarinet & English Horn, By Josef Fiala*  
Student Presenters: Leanna Smith, Eric Jackson  
Faculty Sponsor: Shannon Thompson

Time: 5:00 PM                      Place: Coulter Recital Hall  
*Improvisation I/Introduction and Dance*  
Student Presenter: Ward Wilson  
Faculty Sponsor: Ian Jeffress

Time: 6:00 PM                      Place: Coulter Recital Hall  
*WCU Jazz Piano Quintet*  
Student Presenters: Jacob Crabtree-Piano, Delante Randolph-Alto Sax, Curtis Huffman-Drums, Jamie McDonald-Electric Bass, Nick Johanneson-Tenor Sax  
Faculty Sponsors: Pavel Wlosok, Travis Bennett

## **COLLEGE OF FINE AND PERFORMING ARTS [CONTINUED]**

### School of Stage and Screen

Time: 4:30 PM                      Place: Niggli Theatre

#### *A Salute to Rockette History*

Student Presenters: Students of the School of Stage & Screen: Jonathan Cobrda, Tyler McKenzie, Peter O'Neal, Joe Callahan, Josh Jones, Paul Thiemann, Brian Gay, Joshua Farrar, Danielle Lacroix, Katelyn Baucom, Lindsay Freeman, Alex Hairston, Sydney Troxler, Samantha Gampel, Colby Creasman, Elena Cope, Heather Allison, Ariel Hedgepeth, Clara Kelly (costumes), Wesley Gonzales (Stage manager).

Faculty Sponsor: Karyn Tomczak

## **COLLEGE OF HEALTH AND HUMAN SCIENCES**

### Criminology and Criminal Justice

Time: 12:30 PM                      Place: Belk 412

#### *Victims of Violence*

Student Presenter: Ashley Hemsath

Faculty Sponsor: Albert Kopak

Time: 2:00 PM                      Place: Belk 323

#### *What is Recovery?*

Student Presenter: Sarah F. Sanderson

Faculty Sponsor: Robert T. Berry

Time: 2:15 PM                      Place: Belk 323

#### *Will Dual Status Commanders Improve DOD's Support to Disaster Response?*

Student Presenter: Matthew Gould

Faculty Sponsor: Robert T. Berry

Time: 2:30 PM                      Place: Belk 323

#### *Social Inequalities and their Effects in a Disaster*

Student Presenter: Jason Milton Gray

Faculty Sponsor: Robert T. Berry

### School of Health Sciences - Environmental Health Program

Time: 12:30 PM                      Place: Health and Human  
Sciences Building 421

#### *Relative Species Abundance and Gonotrophic Status of Resting Mosquito Populations in the Balsam Mountain Preserve*

Student Presenters: Leland August Shockley, Jenny Ross

Faculty Sponsor: Brian D. Byrd

Time: 12:45 PM                      Place: Health and Human  
Sciences Building 421

#### *Identification of Aedes triseriatus (Say) from Aedes hendersoni Cockerell (Diptera: Culicidae) by a Novel Species-specific PCR Assay*

Student Presenter: Robert Wilson

Faculty Sponsor: Brian D. Byrd

# UNDERGRADUATE ACADEMIC PROJECT GRANTS

## AWARDED 2012-2013

Initiated by Chancellor John Bardo in 1996, the Undergraduate Academic Projects Grant Program funds a variety of student projects. The committee awarded 36 grants this year.

Members of the UAPGP Committee are

Robert Mulligan ..... Business  
Hal Herzog ..... Education and Allied Professions  
Indrani Bose ..... Arts and Sciences  
Christina Reitz ..... Fine and Performing Arts  
George Ford ..... Kimmel School of Construction Management and Technology  
Tracy Zontek ..... Health and Human Sciences  
Brian Railsback ..... Honors College

### **ARTS & SCIENCES**

#### Anthropology & Sociology

*Southern Anthropological Society Annual Meeting:*

*The Mountain Metaphor*

Student Recipient: Rachel Baker

Faculty Sponsor: Dr. Ted Coyle

*Southern Anthropological Society Annual Meeting:*

*Aikido: A Martial and Philosophical Art*

Student Recipient: Ashley Hemsath

Faculty Sponsor: Dr. Anne Rogers

#### Biology

*Independent Research:*

*Investigating Variances in the Song Sparrow DRD4 Gene to Further the Understanding of the Genetics of Aggression*

Student Recipient: Haley Pace

Faculty Sponsor: Dr. Jeremy Hyman

#### Chemistry and Physics

*Independent Research:*

*Investigation of Antimicrobial Activity of Metal-based Nanoparticles*

Student Recipient: Tess Branon

Faculty Sponsor: Dr. Channa De Silva

*Independent Research:*

*Development of a Real-Time PCR Assay for Evaluation of Extracted DNA from Various Animal Taxa*

Student Recipient: Jenny Ross

Faculty Sponsor: Dr. Patricia Foley

*Independent Research:*

*Development of a Real-Time PCR Assay for Evaluation of Extracted DNA from Various Animal Taxa*

Student Recipient: Raechal Leonard

Faculty Sponsor: Dr. Patricia Foley

*Independent Research:*

*Development of a Real-Time PCR Assay for Evaluation of Extracted DNA from Various Animal Taxa*

Student Recipient: Sofia Lilly

Faculty Sponsor: Dr. Patricia Foley

*Independent Research:  
Development of a Real-Time PCR Assay for  
Evaluation of Extracted DNA from Various Ani-  
mal Taxa*

Student Recipient: Jessica Ann Allen  
Faculty Sponsor: Dr. Patricia Foley

*Independent Research:  
Sounding Balloon Research/Development Proj-  
ect, Upper Atmospheric Pursuit for Terrestrial  
Gamma-ray flashes, Terrestrial Gamma-ray  
Enhancements, Transient Luminous Events  
and Auroras in the Southern Appalachian  
Mountains*

Student Recipient: Michelle Coker  
Faculty Sponsor: Dr. Enrique Gomez

*Independent Research:  
Sounding Balloon Research/Development Proj-  
ect, Upper Atmospheric Pursuit for Terrestrial  
Gamma-ray flashes, Terrestrial Gamma-ray  
Enhancements, Transient Luminous Events  
and Auroras in the Southern Appalachian  
Mountains (2)*

Student Recipient: Michelle Coker  
Faculty Sponsor: Dr. Enrique Gomez

## Geosciences & Natural Resources

*National Convention of the Society of American  
Foresters:*

*Deer Influence on Regeneration Following a  
Shelterwood Harvest in Western North  
Carolina and Prescribed Fire Effects on Mast  
Production in Western North Carolina*

Student Recipients: Michael McCloy, Brent Mills, Paul  
Pittman, Benjamin Melton, Amber Holland, Geroge  
Hahn, Gabi Hovis, Ashley Mendenhall, and Michael  
Mustin

Faculty Sponsor: Dr. Peter Bates

*Independent Research:  
Tectonic Origin of the Barber Lake Block*

Student Recipient: Josh Fuller  
Faculty Sponsor: Dr. Daniel Jones

*Independent Research:  
Greenhouse Aquaponics*  
Student Recipient: Randy Rienke  
Faculty Sponsor: Dr. Brian Kloeppe

## Philosophy and Religion

*CARE Conference and International Women's  
Day Celebration 2013*

Congressional meetings  
Student Recipients: Joseph Bonner, Margaret Chandler,  
Jessica Duncan, Tara Fleck. Paul Horton, Kristen Marti-  
nez, Kaitlyn Moody, Esther Ransom, Nicholas Splawn  
Faculty Sponsor: Dr. John Whitmire

## **BUSINESS**

### Business Administration & Law and Sport Management

*College Sport Research Institute Conference:  
Case Study of Holy Cross: Analyzing the  
Potential Decision to Reclassify to the Big East  
Conference*

Student Recipients: Chris Kidd, John Gilliam, Tim Kay,  
Stiles Burr

Faculty Sponsor: Dr. Kadence Otto

## **EDUCATION & ALLIED PROFESSIONS**

### Psychology

*Southeastern Psychological Association:  
Relationship of Physiological and Psychological  
Coping to Externalizing Disorders*

Student Recipient: Michelle McCall  
Faculty Sponsor: Dr. Leonardo Bobadilla

*Southeastern Psychological Association:  
Testing Disposition Theory: Sufficiency of  
Negative Affect in Predicting Amusement with  
Disparagement Humor*  
Student Recipients: Andrew Beveridge, Isabel Leavitt  
Faculty Sponsor: Dr. Thomas Ford

*Southeastern Psychological Association  
Conference:  
Music is the Language: Personality Traits and  
Musical Preferences.*  
Student Recipient: Olivia Muse  
Faculty Sponsor: Dr. David McCord

## School of Teaching and Learning

*Education:  
Smokey Mountain Lesson Plans*  
Student Recipient: Rabbecca Kesterson and Beth Arney  
Faculty Sponsor: Dr. Marvin Schade

## **FINE AND PERFORMING ARTS**

## School of Art and Design

*3-D Design Project: Mini Golf Course*  
Student Recipients: Elizabeth Mosher, Katana Lemelin,  
Jessica Grant, Angel Butler  
Faculty Sponsor: Dr. Richard Tichich

*Independent Research:  
Liquid Light Show Installation*  
Student Recipients: Jake Orr, Emilio Jeffries  
Faculty Sponsor: Dr. Erin Tapley

*Independent Research:  
Synthesis Research for Fine & Performing Arts  
Gift Shop*  
Student Recipient: Sarah Byerly  
Faculty Sponsor: Ms. Denise Drury

*Independent Research:  
Student Solo Exhibition*  
Student Recipient: Amelia Holmes  
Faculty Sponsor: Dr. Matt Liddle

*Independent Research:  
A Study of Issues Concerning the Production of  
Photographic Collagraphs*  
Student Recipient: Tom Pazderka  
Faculty Sponsor: Dr. Matt Liddle

## School of Music

*Concert Choir:  
Fall Choral Conference of the NC Chapter of  
the American Choral Directors Association*  
Student Recipient: Concert Choir  
Faculty Sponsor: Dr. Michael Lancaster

*WCU Trumpet Studio:  
Exploring Trumpet in Greece*  
Student Recipient: Whitney Collins, Ashley Baldwin,  
Ashley Bollinger, Chris Burke, Logan Cartwright, Dossie  
Ransom, Stacy Coker, Todd Mantnech, Greg Darpenier  
Faculty Sponsor: Dr. Bradley Ulrich

*Quartet Competition:  
Southeast Horn Workshop Collegiate Quartet  
Competition*  
Student Recipients: Justin Beebe, Jeff Bowman, Katelyn  
Johnson, Drew Langston  
Faculty Sponsor: Dr. Travis Bennett

*National Association of Teachers of Singing*  
Student Recipients: Maddie Johnson, Corinne Minor,  
Bekka Mayen, Hannah West, Joseph Coca, Chris Corbin,  
Robert Helma, Austin MacDowell, Garret Pace  
Faculty Sponsor: Dr. William Martin

## School of Stage and Screen

*The Ziegfeld Society Presents "A Salute to  
Rockette History:"  
"A Salute to Rockette History"*  
Student Recipients: Jonathan Cobrda, Tyler McKenzie,  
Peter O'Neal, Joe Callahan, Josh Jones, Paul Thiemann,  
Brian Gay, Danielle Lacroix, Katelyn Baucom, Lindsay  
Freeman, Alex Hairston, Sydney Troxler, Samantha  
Gampel, Colby Creasman, Brittany Mastromatteo, Katie  
Weant, Elena Cope  
Faculty Sponsor: Ms. Karyn Tomczak



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## HEALTH AND HUMAN SCIENCES

### Criminal Justice and Criminology

#### *Independent Research:*

*Police Corruption in South Africa and the United States: A Cross-Cultural Comparison*

Student Recipient: Mary Hannah Hughes  
Faculty Sponsor: Dr. Cyndy Caravelis Hughes

*North Carolina Criminal Justice Conference:  
Effective Planning of an Emergency  
Management Drill*

Student Recipient: Travis Swain  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
The Association of Moral Decision-Making and  
Intentions to Offend*

Student Recipient: Ashley McGee  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
Criminal Justice and Non-Criminal Justice  
Students' Attitudes Toward Issues in Criminal  
Justice*

Student Recipient: Lisa Oliver  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
Juvenile Delinquency Prevention: Applying  
Social Learning*

Student Recipient: Daniel Rosenheim  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
Comparing the South African Apartheid and  
the Israeli Treatment of Palestinians*

Student Recipient: Wesley Myers  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
Restorative Justice as a Viable Criminal Justice  
Practice*

Student Recipient: Anthony McCarty  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
Female Criminality Explained Through Parental  
Attachment and Involvement*

Student Recipient: Amelia Mittan  
Faculty Sponsor: Dr. Jamie Vaske

*North Carolina Criminal Justice Conference:  
The Importance of a Positive Writing  
Environment in Criminal Justice Education*

Student Recipient: Meagan Pittman  
Faculty Sponsor: Dr. Jamie Vaske

### School of Health Sciences

#### *Independent Research:*

*Sensitivity and Specificity of Morphological  
Characters to Distinguish Culex restuans and  
Culex pipiens*

Student Recipient: Tyler McKinnish  
Faculty Sponsor: Dr. Brian Byrd

*Southeast Athletic Trainers' Association :  
Annual Student Symposium*

*Unique Upper Extremity Injury in a Collegiate  
Male Gymnast*

Student Recipient: Alessa Lennon  
Faculty Sponsor: Dr. Jill Manners

*Southeast Athletic Trainers' Association:  
Annual Student Symposium*

*Anterior Tibiofemoral Dislocation in a Collegiate  
Athlete*

Student Recipient: Nichole Eads  
Faculty Sponsor: Dr. Jill Manners

*Southeast Athletic Trainers' Association:  
Annual Student Symposium  
Cervical Spine Injury in a High School Men's  
Football Player*

Student Recipient: Andrew Godinez

Faculty Sponsor: Dr. Jill Manners

*Southeast Athletic Trainers' Association:  
Annual Student Symposium  
Right Clavicular Stress Fracture in a 19-yearold  
Collegiate Male Gymnast and Right Hip Labral  
Tear in a 19 Year old Collegiate Female*

Student Recipient: Elizabeth Ballard

Faculty Sponsor: Dr. Jill Manners

*Southeast Athletic Trainers' Association:  
Annual Student Symposium  
Abdominal Pain in a High School Football  
Player*

Student Recipient: Sarah McNamara

Faculty Sponsor: Dr. Jill Manners

*Pre-hospital Care Research Forum:  
EMS Today Conference*

Student Recipients: Britt McCormick, Casey Schmidt,  
Ben Young, Jamie Blackwelder, Jonina Wiser, Daniel  
Wesley, Patricia Dorian, Wilkins, Boyles, Doran  
Grossman-Orr, Chris Johnson

Faculty Sponsor: Dr. Michael Hubble

*ASSE Region VI Research Presentations and  
Conference Participation*

Student Recipients: Tina Wells, Perry Fotopoulos, Levi  
Mines, Josh Turner, Wendy Grijalva, Courtney Hudson

Faculty Sponsor: Dr. Tracy Zontek

*NCDA 80th Annual Meeting and Expo  
Nutrition Majors vs. Non-Nutrition Majors in  
Relation to BMI and Attitudes About Diet*

Student Recipients: Katie Tallman, Emily Lenski

Faculty Sponsors: Dr. Brenda G. Marques, Dr. April  
Tallant

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# **HONORS COLLEGE INTERNATIONAL STUDY GRANTS**

These grants are possible due to a fund established by Honors College Advisory Board members E.J. Tarbox and Mark and Kathy Whitehead in 2010.

Study Abroad France

*Student: Bertsie Cantu*

Study Abroad Spain

*Student: Cleis Bonham*

Study Abroad Wales, UK

*Student: Brian Gay*

Study Abroad Australia

*Student: Bertsie Cantu*

Study Abroad Costa Rica

*Student: Amanda Haile*

Study Abroad Japan

*Student: Brenda Kaplan*

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**THE RODIN 2013**  
**RECOGNITION OF DISTINCTION IN**  
**INSTRUCTION AND NURTURING**

This award is meant to recognize faculty members who have supported undergraduate research at Western Carolina University by sponsoring student work at our Undergraduate Expo, the National Conference on Undergraduate Research, and other endeavors.

The recipient of the 2013 RODIN Award is Dr. Brent Kinser, Associate Professor of English. Along with sponsoring numerous student projects at NCUR and the Undergraduate Expo, Dr. Kinser organizes conferences and symposia for the Department of English.

**THE HONORS COLLEGE BOARD AND HONORS STAFF**  
**CONGRATULATE THE 2013 RECIPIENT OF THE**  
**2013 RODIN AWARD:**

Brent Kinser .....English Department

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**NOTES:**

# THE HONORS COLLEGE

*Ad vitam paramus*

## WESTERN CAROLINA UNIVERSITY

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Cullowhee, NC 28723  
828-227-7383

Dr. Brian E. Railsback, Dean  
J. Steven Carlisle, Associate Dean  
Emily A. Sharpe, Director of Honors Advising  
and Pre-Professional Programs  
Bonnie J. Beam, Executive Assistant



## THE RODIN

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### THE HONORS COLLEGE BOARD AND HONORS STAFF CONGRATULATE

#### THE RECIPIENT OF THE 2013 RODIN AWARD:

Brent Kinser ..... English Department