THE FIFTEENTH ANNUAL

UNDERGRADUATE EXPO ’13

APRIL 3–4 / 2013

WESTERN CAROLINA UNIVERSITY
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 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.

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.

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.

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.

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!
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 to get involved Today!
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.

### 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**  
Brittni 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**  
Marijah 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
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
Claire 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
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<td>Leanna Smith, presenter</td>
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<td><em>As Demonstrated in “Daphnis Et Chloé”</em></td>
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<td>You Xiaci De Zuanshi</td>
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<td><em>Planting the Seed of Reason</em></td>
<td>Melissa Bradley, presenter</td>
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<td><strong>The Ethics of Collateral Damage in 21st Century Warfare</strong></td>
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<td><em>Atmospheric Stratification of Terrestrial Gamma-Ray Flashes, (TGFS) and Capture of Electromagnetic Phenomenon in the Southern Appalachian Mountain Region</em></td>
<td>Michele Coker, presenter</td>
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<td><strong>Mass Transfer and Stellar Jets in Binary Star System Beta Lyrae</strong></td>
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<td><em>Changes in Women’s Preferences During Ovulation</em></td>
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<td><strong>Review of Literature on Personality Characteristics Associated with Performance as a Special Forces Military Operative</strong></td>
<td>Mandy Long, presenter</td>
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<td><strong>Music is the Language: Personality Traits and Musical Preferences</strong></td>
<td>Olivia Muse, presenter</td>
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<td><strong>Examining Risk Propensity Subfactors through the Lens of the Five-Factor Model of Personality</strong></td>
<td>Sarah Zucca, presenter</td>
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<td><strong>Military Families: Deployment Impact on College Students</strong></td>
<td>David Chandler, Meridia Sanders, Isabel Leavitt, presenters</td>
<td>Candace Boan, Mickey Randolph, sponsors</td>
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<td><strong>Transgender in Service: Focusing on a Better Outlook on the Transgender Community</strong></td>
<td>Katie Salmons, Miranda Dickens, presenters</td>
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<td><em>The Case of Class in Hayao Miyazaki’s ‘Spirited Away’</em></td>
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<td><strong>North Carolina’s Harvest of Shame</strong></td>
<td>Jessica McLamb, presenter</td>
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<td><strong>Contributing Factors to Rape Culture on College Campuses: Small Rural University</strong></td>
<td>Caitlin Armer, presenter</td>
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<td><strong>Did Lenin Pollute Marx’s Theory of Communism? A Study of Lenin’s Interpretation of Marx’s Theory of Communism</strong></td>
<td>Jacob Marlowe, presenter</td>
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<td>Ashton Bennett, presenter</td>
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<td><strong>Men’s Style in Hollywood in the 1930’s</strong></td>
<td>Paul Thiemann, presenter</td>
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**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.
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

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
Human Services

*Cullowhee: Is it the Place to Be?*
Student Presenters: Sarah Stokes, Dustin Penny, Carmen Rice
Faculty Sponsor: Freya Kinner

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

*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

*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

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
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: Ashley 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 Brouilette, 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

Don’t 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, Derrik Campbell, Josh Sims
Faculty Sponsor: Jamie Vaske

Last Dance with Mary Jane
Student Presenters: Meagan Pittman, Rex Cable, Spencer 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
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 - 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)

Osteochondral Lesion in a Collegiate Basketball Player
Student Presenter: Joshuah 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

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
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

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 Boaef
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
Panthertown 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

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
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

* Stereotypical Representations of Africa in The Ghost and the Darkness
Student Presenter: Tyler Auffhammer
Faculty Sponsor: Elizabeth Heffelfinger

* The Constant Gardener As Told By A White Person
Student Presenter: Lex Menz
Faculty Sponsor: Elizabeth Heffelfinger

* 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

**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

**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:** 12:30 PM  
**Place:** Forsyth 213  
*Social Networking and Marketing*  
Student Presenter: Ashley Stalnaker  
Faculty Sponsor: Janet Ford

**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  
*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: Comparing 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 Xiai 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, Lindsa 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
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 Animal Taxa
Student Recipient: Jessica Ann Allen
Faculty Sponsor: Dr. Patricia Foley

Independent Research:
Sounding Balloon Research/Development Project, 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:
Greenhouse Aquaponics
Student Recipient: Randy Rienke
Faculty Sponsor: Dr. Brian Kloeppel

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 Martinez, Kaitlyn Moody, Esther Ransom, Nicholas Splawn
Faculty Sponsor: Dr. John Whitmire

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, George 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

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: Rabecca 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 Carpenter
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, Lindsi Freeman, Alex Hairston, Sydney, Troxler, Samantha Gampel, Colby Creasman, Brittany Mastromatteo, Katie Weant, Elena Cope
Faculty Sponsor: Ms. Karyn Tomczak
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 Pittmen
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 Tibifemoral 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 Sress 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
**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.

<table>
<thead>
<tr>
<th>Study Abroad Location</th>
<th>Student</th>
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</thead>
<tbody>
<tr>
<td>France</td>
<td>Bertsie Cantu</td>
</tr>
<tr>
<td>Wales, UK</td>
<td>Brian Gay</td>
</tr>
<tr>
<td>Costa Rica</td>
<td>Amanda Haile</td>
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<tr>
<td>Spain</td>
<td>Cleis Bonham</td>
</tr>
<tr>
<td>Australia</td>
<td>Bertsie Cantu</td>
</tr>
<tr>
<td>Japan</td>
<td>Brenda Kaplan</td>
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</tbody>
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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
NOTES:
The Rodin

Recognition of Distinction in Instruction and Nurturing

This award recognizes 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 Recipient of the 2013 Rodin Award:

Brent Kinser ................................. English Department