Undergraduate Expo ’14
March 24-25, 2014
Undergraduate Expo 2014

Western Carolina University
March 24-25

Welcome

The sixteenth Undergraduate Expo features 248 student presenters and 61 faculty sponsors, spread over twenty departments and programs in three 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 5:00 p.m. on Monday, March 24, 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 presented.

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 Monday, March 24.

Press Releases for Student Presenters

WCU’s Office of Public Relations and Communications routinely sends news releases about student activities and honors to the hometown/local newspapers of the students involved. Students participating in the Undergraduate Expo who wish to take advantage of that service should visit the website http://studentawards.wcu.edu to complete an online form and submit it via email to the Public Relations and Communications Office.

National Conference on Undergraduate Research

This year NCUR will be on the campus of the University of Kentucky at Lexington April 3-5. Please check this program for the complete list of the 70 NCUR28 abstracts accepted; this year, WCU is tied for second 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 Undergraduate-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!
Below are the projects accepted, titles, student presenters, and their sponsors for NCUR28. Funding for travel to NCUR28 was made possible by local tuition funds earmarked for support of the Quality Enhancement Plan and undergraduate research in particular.

**African American Studies**  
*If Only I Had A Chance: Chicago Restriction in Richard Wright’s “Native Son”*  
Sara Green, presenter  
Annette Debo, sponsor

*Dissemblance in Toni Morrison’s “Beloved” and the “Slave Narrative of Dora Franks”*  
Catherine Stiers, presenter  
Annette Debo, sponsor

**Anthropology & Archeology**  
*Compression Testing of Deer Femora as an Animal Model for Automobile Accidents*  
Jennie Coffel, presenter  
Martin Tanaka, John Williams, and Robert Steffen, sponsors

*From the Creek Bed to the Laboratory: An Experimental Analysis of Temper in Pigeon and Connestee Series Ceramics*  
Paige Tester, presenter  
Jane Eastman, sponsor

**Architecture & Interior Design**  
*Redefining Ergonomics: Helping Students Achieve the Best*  
Christopher Wilson, presenter  
Erin Adams, sponsor

**Art Studio (Visual Arts)**  
*Liminal Landscapes: A Photographic Exploration*  
Amelia Holmes, presenter  
Susan Martin, sponsor

*Vessels of Light: An Exploration of Porcelain and Life*  
Amanda Janes, presenter  
Joan Byrd, sponsor

*Light and Time*  
Gina Ricciardelli, presenter  
Richard Tichich, sponsor

**Biochemistry**  
*Determination of Antimicrobial Activity of Europium Metal Complexes*  
Kristy Martin Rogers, presenter  
Channa De Silva, sponsor

**Biology**  
*Making an RNA Interference (RNAI) Library to Screen Virulence Phenotypes In the Pathogenic Yeast, cryptococcus Neoformans*  
Matthew Alexander, presenter  
Indrani Bose, sponsor

*Canopy Openness Effects On Vegetation Richness*  
McKenzye DeHart-McCoyle, presenter  
Beverly Collins, sponsor

**Business/Finance/Accounting**  
*No Accounting For Global Financials*  
Dianna Almond, presenter  
Lorrie Willey, sponsor

**Cell & Molecular Biology**  
*Annotation of a DNA Contig From the Dot Chromosome of Drosophila Biarmipes*  
McKenzye DeHart-McCoyle, presenter  
Indrani Bose, sponsor

*Method Development: Direct Amplification of the Entire Human Mitochondrial Genome*  
Meghan Lawler, presenter  
Mark Wilson, sponsor

**Chemistry**  
*Synthesis and Characterization of Europium-based Nanoparticles with Enhanced Luminescent Properties*  
Austin Allen, presenter  
Channa De Silva, sponsor
Surface Enhanced Luminescence of A Rare Earth Complex by Silver Nanoparticles
James Beimborn II, presenter
David Evanoff, sponsor

Complexation of Boroxines and Boronates with Amine N-Oxides
Elicha Benfield, Meghan Lawler presenters
Bill Kwochka, sponsor

Synthesis, materials characterization, and toxicological evaluation of Eu(III) doped-Fe3O4 nanoparticles using YPEN rat endothelial cells
Kortney Schumann, presenter
Channa De Silva, sponsor

Communications
What Is Your Number?
Monica Papworth, presenter
Melissa English, sponsor

Computer Science
TranTracker: A Tracking System for Campus Shuttles
Christopher Ward, presenter
Mark Holliday, sponsor

Criminology
Why the American Public is Blaming the Victim: Preliminary Support for Moral Judgment Theory
Ashley Hemsath, presenter
Albert Kopak, sponsor

Police Corruption in South Africa and the United States: A Cross-Cultural Comparison
Mary Hannah Hughes, presenter
Cynthia Hughes, sponsor

Patterns and Causes of Higher Homosexual Drug Use
Wesley Myers, presenter
Frederick Hawley, sponsor

Education
The Effect of Community Service on Western Carolina University
Peyton Flinchum, presenter
Brenda Marques, sponsor

Who gets the last word? Literature of immigration in the Secondary English Language Arts Classroom
Jill West, presenter
Eleanor Petrone, sponsor

English
Realization of the Castration Anxiety: Psychoanalysis of “The Sun Also Rises”
Aaron Cole, presenter
Annette Debo, sponsor

How Colonialism ‘Tainted’ Cultural Identity: A New Historicist Analysis Of Thrall
Stephanie McCann, presenter
Burton Ogle, sponsor

Feste of “Twelfth Night:” Shakespeare’s Indispensable “Corrupter of Words”
Leah Rhodes, presenter
Brent Kinser, sponsor

Environmental Studies & Sciences
Looking at Crime Through a Public Health Lens
Mary Hannah Hughes, presenter
Tracy Zontek, sponsor

Evaluating Sustainability of Commuter Transportation at Western Carolina University
William Wood, presenter
Laura DeWald, sponsor

Film Studies
Living and Dying in Murderhouse: Abigail Hobbs in NBC’s “Hannibal”
Emily Maesar, presenter
Elizabeth Heffelfinger, sponsor

Harry Potter and the Theory of Film
Luiz Rosa Lippel, presenter
Margaret Bruder, sponsor

Geography & Earth Sciences
Paleoenvironmental Study of Late Holocene, Organic-Rich Deposits Recovered from Pink Beds, A Southern Appalachian Wetland in Western NC
Michele Coker, presenter
Benjamin Tanner, sponsor
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<th>Health Sciences &amp; Public Health</th>
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<td>James Scifers, sponsor</td>
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<td>Establishing Specificity of Concussion Special Tests</td>
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<td>Sarah McNamara, presenter</td>
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<td>Osteochondroma of the Distal Tibia in College Ballet</td>
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<td>Dancer</td>
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<td>Jenna Neumann, presenter</td>
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<td>Tara Peterson, sponsor</td>
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<td>Comparison of Sanitation For Personal UV Lights and</td>
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<td>Jessica Ricchio, presenter</td>
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<td>Burton Ogle, sponsor</td>
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<td>History</td>
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<td>The Concentration of Force: Technological Innovations</td>
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<td>of Dreadnoughts in the Battle of Jutland</td>
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<td>Elizabeth Pratt, presenter</td>
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<td>David Dorondo, sponsor</td>
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<td>“For Sacred Germany”: A History of the German</td>
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<td>Military Resistance to Adolf Hitler, 1938-1944</td>
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<td>Adam Ray, presenter</td>
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<td>The Power of the Panther in the Tarheel State: How</td>
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<td>the Black Panther Party Changed the Role of Race</td>
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<td>Relations in North Carolina</td>
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<td>Richard Starnes, sponsor</td>
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<td>Appalachian Civility: School Integration in Jackson</td>
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<td>Joshua Wilkey, presenter</td>
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<td>Robert Hunt Ferguson, sponsor</td>
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| Nursing                                              |                                                                              |
| Training of Nursing Students In Africa: How Do These Nurses Meet the Needs of the People? |
| Merab Mushfiq, presenter                             |                                                                              |
| Sharon Metcalfe, sponsor                             |                                                                              |

| Linguistics & World Languages                        |                                                                              |
| An Examination of 21st Century Appalachian English   |                                                                              |
| Morgan Lancaster, presenter                          |                                                                              |
| Erin Callahan, sponsor                               |                                                                              |

| Literature                                           |                                                                              |
| Thematic Similarities in George Chapman’s “The      |                                                                              |
| Memorable Masque” and John Smith’s “The Generall    |                                                                              |
| Historie”                                            |                                                                              |
| Tyler Auffhammer, presenter                          |                                                                              |
| Mary Adams, sponsor                                  |                                                                              |
| Shakespeare’s Game of Thrones: “Hamlet” and the      |                                                                              |
| Elizabethan Succession Question                      |                                                                              |
| Tyler Auffhammer, presenter                          |                                                                              |
| Mary Adams, sponsor                                  |                                                                              |
| Undressing Little Red Riding-Hood: Female Sexual     |                                                                              |
| Power In Angela Carter’s “The Company Of Wolves”     |                                                                              |
| Christian Rogers, presenter                          |                                                                              |
| Brent Kinser, sponsor                                |                                                                              |

| Music Original Composition                           |                                                                              |
| The Harmony Initiative                                |                                                                              |
| Justin Beebe, David Myers, Josh Blue presenters       |                                                                              |
| Bruce Frazier, sponsor                                |                                                                              |

| Music Research and/or Analysis                        |                                                                              |
| The Female Orchestra In Auschwitz                      |                                                                              |
| Candace Rhodes, presenter                             |                                                                              |
| Christina Reitz, sponsor                              |                                                                              |
| John Stainer’s Contributions to Sacred Music During    |                                                                              |
| the Romantic Era                                      |                                                                              |
| Marquita Someliana-Lauer, presenter                   |                                                                              |
| Christina Reitz, sponsor                              |                                                                              |

| Nursing                                              |                                                                              |
| Training of Nursing Students In Africa: How Do These Nurses Meet the Needs of the People? |
| Merab Mushfiq, presenter                             |                                                                              |
| Sharon Metcalfe, sponsor                             |                                                                              |
Philosophy & Ethics
Michael Sandel and Theories of Justice
Melissa Bradley, presenter
Daryl Hale, sponsor

Implications on Selfhood In Alasdair Macintype’s After Virtue
Walker Dorsett, presenter
John Whitmire, sponsor

Cora Diamond and Guantanamo Bay
Mandy Long, presenter
Christopher Hoyt, sponsor

Jean-Paul Sartre: Insufficient Potentiality
Allen Sewell, presenter
John Whitmire, sponsor

Harmony and Justice from Within: The Good Life
Tiffany VonVitzthume, presenter
John Whitmire, sponsor

Physics
Increase of Ionizing Radiation at the Pfotzer Maximum over the Southern Appalachains
Michele Coker, presenter
Enrique Gomez, sponsor

Political Science
Is Western Carolina University Truly Purple?
Heather Britt, Matt Rains presenters
Christopher Cooper, sponsor

Perceived Government Responsiveness As Related to Social Spending
Benjamin Fulmer, presenter
Michael Mcdonald, sponsor

Discrepancies In Sentencing Of Juvenile Offenders With Disabilities
Grayson Keating, presenter
Michael Mcdonald, sponsor

Table for Two: Why Third-Party Candidates Have a Winning Issue in Congressional Races
Gregory Lademann, presenter
Michael McDonald, sponsor

Internet Access and Political Knowledge
Matthew Rains, presenter
Michael McDonald, sponsor

Gun Laws on Violent Crimes
Matthew Turner, presenter
Michael Mcdonald, sponsor

Psychology
Core Personality Traits as Predictors of Social-Emotional Adjustment and Pre-Literacy Skills in Preschool Children
Olivia Lochner, presenter
Cathy Grist, sponsor

Religious Studies
Connecting the Influences of Scientific Theories and Religious Beliefs
Virginia Cohen, presenter
Daryl Hale, sponsor

Onions, Batkid and Jesus: Living Dostoevsky’s “Good Life”
Mackenzie Moody, presenter
James McLachlan, sponsor

Evils Mockery: Morality and Marring In the Mind of Tolkien
Michael Thames, presenter
John Whitmire, sponsor

Sociology
El Sistema Nacional de Salud de España: A Look into Spain’s Health Care System
Jessica McLamb, presenter
Lori Oxford, sponsor

Changing Social Class Trajectory
Hailey Sneed, presenter
Peter Nieckarz, sponsor

Women and Gender Studies
A Not So Cinderella Story: Gender Inequality In Anne Sexton’s “Cinderella”
Elizabeth-Ann Diehl, presenter
Brent Kinser, sponsor
Undergraduate EXPO 2014

Presentations will be held at Western Carolina University, March 24-26, according to college and department. Below are project titles, presenters, sponsors, time, and place of presentation.

* denotes a presentation also selected for NCUR 28

Monday, March 24, 2014
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

Birth Control Use and Knowledge
Student Presenter: Rebecca Bleich
Faculty Sponsor: Marilyn Chamberlin

Girl Scouts for Gay Kids: Exploring Queer Youth Spaces in the United States
Student Presenter: Mikayla K. Mann
Faculty Sponsor: Heather Talley

Is Organizational Culture an Effective Predictor of Organizational Performance?
Student Presenter: Devan G. Lalas
Faculty Sponsor: Kathleen Brennan

Biology

Annotation of a DNA Contig from the Dot Chromosome of Drosophila Biarmipes
Student Presenter: * McKenzye Madison DeHart-McCoyle, and Anthony Downs
Faculty Sponsor: Indrani Bose

Annotation of Contig 43 from the Draft Genome Sequence of Elizabethkingia Meningoseptica
Student Presenter: Morgan Simril
Faculty Sponsor: Jessica Moore

Creating a RNA Interference Library for Cryptococcus Neoformans
Student Presenter: * Matthew Alexander
Faculty Sponsor: Indrani Bose

Effects of Hypoxia on Human Endothelial Cell Survival
Student Presenter: Stephanie Burris, Patrick Link, Mariah James, and Brittni Foster
Faculty Sponsor: Heather B. Coan

Identification of Genes on Contigs 27 and 71 from the Draft Genome Sequence of Elizabethkingia Meningoseptica
Student Presenter: Mary Ellis
Faculty Sponsor: Jessica Moore
Chemistry & Physics

Comparison of Nucleic Acid Quantitation Methods including Thermo Scientific’s NanoDrop™ and Life Technologies’ Qubit®
Student Presenter: Jessica Bradley
Faculty Sponsor: Britannia J. Bintz

Complexation of Boroxines and Boronates with Amine N-Oxides
Student Presenter: * Elicha R. Benfield and Meghan F. Lawler
Faculty Sponsor: William R. Kwochka

Determination of Antimicrobial Activity of Europium Metal Complexes
Student Presenter: * Kristy M. Rogers
Faculty Sponsor: Channa De Silva

Emulsions as a Deer Repellent
Student Presenter: Crystal Noell
Faculty Sponsor: Cynthia Atterholt

Evaluating Sustainability of Student Commuter Transportation at WCU
Student Presenter: * William Wood and Anja Nothdurft
Faculty Sponsor: Laura DeWald

Increase of Ionizing Radiation at the Pfotzer Maximum over the Southern Appalachians
Student Presenter: * Michele Coker
Faculty Sponsor: Enrique Gomez

Method Development: Direct Amplification of the Entire Human Mitochondrial Genome
Student Presenter: * Meghan Lawler
Faculty Sponsor: Mark Wilson

Synthesis and Cytotoxicity Studies of Eu(III) doped-Fe3O4 Nanoparticles using YPEN Rat Endothelial Cells
Student Presenter: * Kortney Schumann
Faculty Sponsor: Channa De Silva

Chemistry & Physics, Forensic Science Program
Determination of Mitochondrial DNA Degradation In Hair Shaft Extracts using PCR
Student Presenter: Jeff Foster
Faculty Sponsor: Erin Burnside

Criminology and Criminal Justice

Are Hot Spot Policing, Problem Oriented Policing, and Directed Patrol Effective?
Student Presenter: Tyler Cummings, Tyler Mahaley, George Richardson, William Roseborough, and Cory Shropshire
Faculty Sponsor: Jamie Vaske

Are Rehabilitation Programs Effective in Reducing Recidivism?
Student Presenter: Toni Pearson Taylor Sennett, Matthew Schofield, Jackson Stewart, and Katelyn Watson
Faculty Sponsor: Jamie Vaske

Changes in Property Crime in Response to DNA Collection in North Carolina and South Carolina
Student Presenter: Zach Holme, Kadi Lott, Marina Ropalo, and Brianna Neher
Faculty Sponsor: Jamie Vaske

Controlling Police Behavior
Student Presenter: Jacquelyn Clark, Chloe Jones, Noah Williams, Ammar Phillips, and Josh Mendenhall
Faculty Sponsor: Jamie Vaske

Crisis Intervention Teams in Community Policing
Student Presenter: Matt Kakos
Faculty Sponsor: Cyndy Caravelis Hughes

Differential Association Theory
Student Presenter: Brianna Murray
Faculty Sponsor: Stephen E. Brown

DNA Investigation vs. Traditional Investigation Methods
Student Presenter: Savannah Clark, Rachel Bates, Travis Allen, Matthew Gillis, and Jackson Stewart
Faculty Sponsor: Jamie Vaske

DNA: Helpful Crime Solving Tool or Bogus Evidence?
Student Presenter: Jessica Lay, Christian King, Whitney Scruggs, Tom Tankelewicz, and Shealgh Scanga
Faculty Sponsor: Jamie Vaske

Effectiveness of Rehabilitation Programs on Recidivism
Student Presenter: Cameron Simmons, Molly Davis, Ryan Romig, Kendra Puckett, and Catrina Neal
Faculty Sponsor: Jamie Vaske
Criminology and Criminal Justice (continued)

Effects of Stop and Frisk  
Student Presenter: Kari Schepp, Savannah Clark, Joshua Whitaker, Corey Edmondson, and Ethan Silver  
Faculty Sponsor: Jamie Vaske

Effects on Latinos from Immigration Policies  
Student Presenter: Erica Azoulay  
Faculty Sponsor: Albert Kopak

Emotional Dysregulation among Offenders with and without Mental Illness  
Student Presenter: Summer Brathwaite  
Faculty Sponsor: Jamie Vaske

Examining the Effectiveness of New York’s Stop and Frisk  
Student Presenter: * Wesley Myers, Tyler Clark, Hayley Lovett, Sean Patrick Leech, and Matt Gillis  
Faculty Sponsor: Jamie Vaske

Impact of DNA Testing in North Carolina  
Student Presenter: Emily Leslie, Tom Burns, Nikki Munn, and Laura Davis  
Faculty Sponsor: Jamie Vaske

Learning Theory and Rape  
Student Presenter: Kayla Chase  
Faculty Sponsor: Stephen E. Brown

Multi-Systemic Therapy: Is It Working?  
Student Presenter: Delana McCroskey, Erica Azoulay, Laura Davis, Kim Guarda, and Maria Cirello  
Faculty Sponsor: Jamie Vaske

Police Practices in a Post 9-11 World  
Student Presenter: Ryan Denver  
Faculty Sponsor: Cyndy Caravelis Hughes

Policing Methods and Their Effectiveness on Crime  
Student Presenter: Kyle Brouillette, Keaston Evitt, Dylan Wills, Josh Moody, and Paul O’Brien  
Faculty Sponsor: Jamie Vaske

Processing a Crime Scene  
Student Presenter: Devin Carlson  
Faculty Sponsor: Cyndy Caravelis Hughes

Rational Choice Theory as it Applies to White Collar Crime  
Student Presenter: Shannon M. Kozak  
Faculty Sponsor: Stephen E. Brown

Reducing Crime: Juvenile Waiver Laws  
Student Presenter: Amber Dills, Amy Horn, Jesse King, and Zakia Jenkins  
Faculty Sponsor: Jamie Vaske

Stop and Frisk  
Student Presenter: Daniel Padgett, John McBeth, Chris Shoulars, and Michael Richardson  
Faculty Sponsor: Jamie Vaske

Stop and Frisk Results from 1990 to 2011  
Student Presenter: Whitney Scruggs, Kristy Cole, Charles Young, and Sam Rape  
Faculty Sponsor: Jamie Vaske

Student Involvement in Active Shooter Preparedness  
Student Presenter: Matt Kakos  
Faculty Sponsor: Thomas Johnson

The impact of Stop and Frisk  
Student Presenter: Christian King, DeJahn Harris, and George Richardson  
Faculty Sponsor: Jamie Vaske

The Importance of DNA to CJ  
Student Presenter: Robyn White, Ryan Corkwell, Josh Whitaker, and Stephanie Worley  
Faculty Sponsor: Jamie Vaske

Unjustly Blaming the Blameless  
Student Presenter: Emily Jaynes  
Faculty Sponsor: Lisa Briggs

Which Method of Policing is Most Effective in Reducing Criminal Activity?  
Student Presenter: Kyle Isley, Pete Balthrop, Matt Kakos, Josh Leake, and Richard Reakes  
Faculty Sponsor: Jamie Vaske
English
An Examination of 21st Century Appalachian English
Student Presenter: * Morgan Lancaster
Faculty Sponsor: Erin Callahan-Price

Geosciences & Natural Resources
Evaluating the Solar Energy Potential of Rooftops and Parking Lots on the Campus of Western Carolina University
Student Presenter: Anja Nothdurft
Faculty Sponsor: Ronald Davis

Mathematics & Computer Science
A Web-Driven, Python-Based Robot with Object Detection
Student Presenter: Tim Sizemore and Andriy Rudyk
Faculty Sponsor: Mark A. Holliday

An Android-Based Guide to the Night Sky
Student Presenter: Alisha Hayman and Nick Wilson,
Faculty Sponsor: Mark A. Holliday

An E-Commerce Web App Using Ruby on Rails, MongoDB, and Feed the Beast
Student Presenter: Wes Johnson
Faculty Sponsor: Mark A. Holliday

College of Business

Accounting, Finance, Information Systems and Economics
A Business Intelligence Solution using MS EXCEL 2013
Student Presenter: Minh C. Tram
Faculty Sponsor: Debasish Banerjee

Go Mediation!
Student Presenter: Jared Maurice Williams
Faculty Sponsor: Debasish Banerjee

Business Administration & Law and Sport Management
Annotated Employment Contract
Student Presenter: Cara Elyea
Faculty Sponsor: Debra Burke

Entrepreneurship, Sales & Marketing and Hospitality and Tourism
Creating Your Own Webpage
Student Presenter: Melissa Day
Faculty Sponsor: Julie Johnson-Busbin
Psychology
Core Personality Traits as Predictors of Social-Emotional Adjustment and Pre-Literacy Skills in Preschool Children
Student Presenter: * Olivia Lochner
Faculty Sponsor: Cathy Grist

Dog versus Wolf: What Affects Animal “Naturalness?”
Student Presenter: Andrew Clayton Roush
Faculty Sponsor: Harold Herzog

Fear of Germs and Fried Spiders: The Effects of Perceived Vulnerability to Disease on Food Adventurousness
Student Presenter: Ruth Hudson
Faculty Sponsor: Harold Herzog

School of Teaching and Learning
Formation of Pathological Scars
Student Presenter: Diana Kuzmich
Faculty Sponsor: Maridy Troy

School of Fine and Performing Arts
School of Art and Design
Redefining Ergonomics: Helping High School Achieve the Best
Student Presenter: * Garrett Wilson
Faculty Sponsor: Erin Adams

Reinventing Business Class: Airline Design
Student Presenter: Samantha Ruckman
Faculty Sponsor: Erin Adams
College of Health and Human Sciences

Human Services
Food, Nutrition and Culture Developed in the 1960s and the Lasting Impact on American Society
Student Presenter: Peyton Flinchum and Heather Schneider
Faculty Sponsor: April Tallant

Looking at Crime Through a Public Health Lens
Student Presenter: Mary Hannah Hughes
Faculty Sponsor: Tracy Zontek

School of Health Sciences
A Community Health Assessment of the Town of Auburn, MA.
Student Presenter: Ryan Michaud
Faculty Sponsor: Tracy Zontek

A Comparison of Physical Diameters to Mobility Diameters
Student Presenter: Joel Lowery
Faculty Sponsor: Tracy Zontek

A Unique Case of Sialolithiasis in a Collegiate Hockey Player
Student Presenter: Julia Plourde
Faculty Sponsor: Tara Peterson

Acute Onset Foot Pain in Ballet Dancer
Student Presenter: Sara Spencer
Faculty Sponsor: Rob Dingle

Calcium Supplement Use and Recommended Dietary Allowance Status of Women over Age Fifty
Student Presenter: Morgan Rawls
Faculty Sponsor: Wayne Billon

Cervical Spine Fracture in a Collegiate Gymnast
Student Presenter: Jenna Allocco
Faculty Sponsor: James Scifers

Community Garden
Student Presenter: Quinton Toler
Faculty Sponsor: Cyndy Caravelis Hughes

Evaluating the Most Useful Air Monitoring Equipment in R&D Laboratories
Student Presenter: Emily Ostrander
Faculty Sponsor: Burton Ogle

Evaluation of Calorie Displays on Western Carolina University Vending Sales
Student Presenter: Krystle Thomas, Rachel Smoot, and Terra Mileti
Faculty Sponsor: April Tallant

Examination between Poverty and Crime Rates
Student Presenter: Leticia Yanez
Faculty Sponsor: Cyndy Caravelis Hughes

Fight Bac! Food Safety Education Materials in Jackson County Medical Facilities
Student Presenter: Katherine J. Eagle
Faculty Sponsor: April Tallant

Join the Nutrition and Dietetics Program Today, Change the World Tomorrow!
Student Presenter: Michael Fyock, Brandi Hall, and Chad Ross
Faculty Sponsor: April Tallant

Nutrition on a Mission
Student Presenter: Emma Wieber and Codie Parris
Faculty Sponsor: April Tallant

Osteochondroma of the Distal Tibia in a College Ballet Dancer
Student Presenter: Jenna Neumann
Faculty Sponsor: Tara Peterson

Potassium Content of Meals Served in a Western North Carolina Soup Kitchen
Student Presenter: Alex Paysour
Faculty Sponsor: April Tallant

Purposeful Engagement: Systematically Coordinating the Nutrition and Dietetics Undergraduate Curriculum with the Local Food and Farm to School Education Project
Student Presenter: Kristen Kowalczyk, Carrie Jobe, and Robin Taddonio
Faculty Sponsor: April Tallant
School of Health Sciences (continued)

Quality of Sanitation for Personal UV Lights
Student Presenter: * Jessica Ricchio
Faculty Sponsor: Burton Ogle

Sensitivity and Specificity of Morphological Characters to Identify Culex Quinquefasciatus as Confirmed by PCR
Student Presenter: Cody Dunlap
Faculty Sponsor: Brian Byrd

Sources of Nutrition Education & Counseling among Division I Athletes at WCU
Student Presenter: Courtney Dobner
Faculty Sponsor: April Tallant

Specificity of Concussion Special Tests
Student Presenter: * Elena Keretses
Faculty Sponsor: James Scifers

The Effect of Pulsed Shortwave Diathermy, Moist Hot Pack, and Passive Stretching on Hamstring Flexibility
Student Presenter: * Sarah McNamara
Faculty Sponsor: James Scifers

The Relationship Between Fruit and Vegetable Barriers and Use of Food Assistance Programs
Student Presenter: Ryane Greene & Jeanne Mathews
Faculty Sponsor: April Tallant

Timeliness of Football Shoulder Pad Removal
Student Presenter: Sarah Gilleland
Faculty Sponsor: Rob Dingle

School of Nursing

Chronic Myeloid Leukemia: A Review of Literature
Student Presenter: Chelsea Lowman
Faculty Sponsor: Carol Isaac MacKusick

Psychosocial Effects of Traumatic Burns: A Review of Literature
Student Presenter: Briana Rene Nicholson
Faculty Sponsor: Carol Isaac MacKusick
Monday, March 24, 2014

Presentations

College of Arts and Sciences

Anthropology and Sociology
Time: 12:20 PM  Place: McKee 110
College Student Needs and Expectations regarding Campus Mental Health Services
Student Presenter: Lauren Waites
Faculty Sponsor: Kathleen Brennan

Modern Foreign Languages
Time: 11:15  Place McKee 113
El Sistema Nacional de Salud de España: A look into Spain’s health care system
Student presenter: Jessica McLamb
Faculty Sponsor: Lori Oxford

Forensic Anthropology and Engineering & Technology
Time: 4:30 PM  Place: McKee 113
Cuban Healthcare and the Fight Against AIDS
Student Presenter: Kelsey Angelette Stevens
Faculty Sponsor: Lori Oxford

College of Business

Business Administration & Law and Sport Management
Time: 11:00 AM  Place: Forsyth 115
There’s No Accounting For Global Financials
Student Presenter: * Dianna N. Almond
Faculty Sponsor: Lorrie Willey

College of Education and Allied Professions

Human Services
Time: 11:15 AM  Place: Reid 109
Red Barn Events: Business Plan
Student Presenter: Madison Crawley
Faculty Sponsor: Debby Singleton

Time: 11:30 AM  Place: Reid 109
What Outdoor Recreation Employers Are Looking For
Student Presenter: Danielle Russell, Kayla Chipley, and Madison Crawley
Faculty Sponsor: Ben Tholkes

Time: 11:45 AM  Place: Reid 109
WCU Trail System Survey
Student Presenter: Jordan Davis, Michael Milideo, and Lance Flowers
Faculty Sponsor: Ben Tholkes

Time: 12:00 PM  Place: Reid 109
Effectiveness of Environmental Education for Preschoolers
Student Presenter: Jennifer Stogner-Lee, Emily Shapiro, and Aaron Caldwell
Faculty Sponsor: Ben Tholkes

Psychology
Time: 5:30 PM  Place: 1
How Does Genetic Relatedness Affect Altruism Across Helping Scenarios?
Student Presenter: Alma Plaza-Rodriguez
Faculty Sponsor: Winford Gordon
**College of Health and Human Sciences**

**School of Nursing**

**Time:** 12:00 PM  
**Place:** HHS Building 204

*Health Improvement Through Wellness Education and Tai Chi for Individuals with Serious and Persistent Mental Illness at Thrive Clubhouse*

Student Presenter: Monique L. Brown, Angelina Lilly, and Hannah Gilliam  
Faculty Sponsor: Elizabeth Sexton

**Time:** 1:00 PM  
**Place:** HHS Building 204

*Assessment of the Sexual Health Care Education Needs of a Cherokee High School and Plans for Intervention*

Student Presenter: Brittany Jones, Chasity Llewellyn, Elizabeth Blackmon, and Caroline Rooney  
Faculty Sponsor: Cheryl C. Clark

**Time:** 1:30 PM  
**Place:** HHS Building 204

*Health Education for a Vulnerable Population: Homeless Women and Children*

Student Presenter: Kristen McGee, Megan Plotkin, and Molly Nardello  
Faculty Sponsor: Elizabeth Sexton

**Time:** 2:15 PM  
**Place:** HHS Building 204

*Open Door Ministries Nutrition Education and Research*

Student Presenter: Chelsea Lowman, Rachelle Simons, and Emily Mannie  
Faculty Sponsor: Cheryl C. Clark

**Time:** 2:45 PM  
**Place:** HHS Building 204

*A HOPE Health Fair*

Student Presenter: Clay Hudson, Nicholas McLean, Sarah Beth Keoleian, and James Brennan  
Faculty Sponsor: Elizabeth Sexton

**Time:** 3:15 PM  
**Place:** HHS Building 204

*Open Door Health Fair*

Student Presenter: Susan Coffey, Andrew Ives, and Katelin Starre  
Faculty Sponsor: Cheryl C. Clark

**Time:** 4:00 PM  
**Place:** HHS Building 204

*Community Focused Health and Wellness Outreach Among Homeless Participating in the Veterans’ Restoration Quarters Project*

Student Presenter: Diego Rivera, Sharon Wallis, and Lisa Henderson  
Faculty Sponsor: Elizabeth Sexton

**Time:** 4:30 PM  
**Place:** HHS Building 204

*Swain County Seniors Needs Assessment*

Student Presenter: Stone Altman, Macey Bright, and Patricia Earley  
Faculty Sponsor: Cheryl C. Clark

**College of Fine and Performing Arts**

**School of Art and Design**

**Time:** 2:30 PM  
**Place:** Fine and Performing Arts Center - Fine Art Museum

*Researching Conceptual Artists’ Books for the Museum*

Student Presenter: Jacob Evers and Emily Phillips  
Faculty Sponsor: Seth McCormick
Tuesday, March 25, 2014
Presentations
College of Arts and Sciences

Biology
Time: 12:30 PM Place: Natural Sciences NS1
Effects from Maternal Hypothyroidism on Baby’s IQ Level during Pregnancy
Student Presenter: * Merab Mushfiq
Faculty Sponsor: Joe B. Mathews

Criminology and Criminal Justice
Time: 12:30 PM Place: Belk 305
Developing a Virtual Disaster Exercise
Student Presenter: John Maitland
Faculty Sponsor: Carlie Merritt

English
Time: 11:00 AM Place: Coulter 204
A Not So Cinderella Story: Gender Inequality in Anne Sexton’s “Cinderella”
Student Presenter: * Elizabeth-Ann Diehl
Faculty Sponsor: Brent Kinser

Modern Foreign Languages
Time: 6:00 PM Place: McKee 135
A Look Into Japan
Student Presenter: Tiffany Thai, Tommy Ho, and Kyle Serio
Faculty Sponsor: Masafumi Takeda

Philosophy and Religion
Time: 1:30 PM Place: Stillwell 225
Is Religion a Natural Phenomenon?
Student Presenter: Amanda Mitchell
Faculty Sponsor: Daryl Hale

Time: 2:00 PM Place: Stillwell 225
Is Justice the Right Thing To Do?
Student Presenter: * Melissa Bradley
Faculty Sponsor: Daryl Hale

Time: 2:30 PM Place: Stillwell 225
Jean Paul Sartre: Insufficient Potentiality
Student Presenter: * Allen Sewell
Faculty Sponsor: James McLachlan

Time: 3:00 PM Place: Stillwell 225
Primum, Minima de Malis
Student Presenter: Luke Kohrman
Faculty Sponsor: Daryl Hale

Time: 3:30 PM Place: Stillwell 225
The One Ring and The Republic
Student Presenter: Esther Meeks
Faculty Sponsor: Daryl Hale

Time: 4:00 PM Place: Stillwell 225
Implications on Selfhood in Alasdair MacIntyre’s After Virtue
Student Presenter: * Walker Dorsett
Faculty Sponsor: John Whitmire

Time: 4:30 PM Place: Stillwell 225
Evidence and Belief: Exploring the Relationship between Scientific and Religious Perspectives
Student Presenter: Virginia Cohen
Faculty Sponsor: Daryl Hale

Time: 5:00 PM Place: Stillwell 225
Free Slave
Student Presenter: Cassie Ebert
Faculty Sponsor: James McLachlan
**College of Arts and Sciences (continued)**

**Special on Wednesday, March 26:**

**Time:** 6:00 PM  
**Place:** BAC 223  
*Diamond and Guantanamo Bay*

Student Presenter: * Mandy Long  
Faculty Sponsor: Christopher Hoyt

**College of Education and Allied Professions**

**Psychology**

**Time:** 8:00 AM  
**Place:** Killian 304  
*Parenting Styles in Television Sitcoms*

Student Presenter: * Nancy Thacker  
Faculty Sponsor: Bruce Henderson

**College of Fine and Performing Arts**

**School of Music**

**Time:** 6:00 PM  
**Place:** Coulter 375  
*John Stainer’s Contributions to Sacred Music During the Romantic Era*

Student Presenter: * Marquita Capparuccia Someliana-Lauer  
Faculty Sponsor: Christina Reitz

**Time:** 6:20 PM  
**Place:** Coulter 375  
*The Female Orchestra in Auschwitz*

Student Presenter: * Candace Rhodes  
Faculty Sponsor: Christina Reitz

**College of Health and Human Sciences**

**School of Health Sciences**

**Time:** 10:00 AM  
**Place:** HHS Building 204  
*Whee Strive for 5! Interactive Nutrition Education Journey*

Student Presenters: ND 340 Community Nutrition Class of Spring 2014  
Faculty Sponsor: April Tallant
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
Kia Asberg .................................................................Education and Allied Professions
Indrani Bose ........................................................................................Arts and Sciences
Christina Reitz ................................................................. Fine and Performing Arts
Sudhir Kaul ............. Kimmel School of Construction Management and Technology
Tracy Zontek ................................................................. Health and Human Sciences
Brian Railsback ............................................................................Honors College

Anrthopology & Sociology
Totah Archaeological Project
Totah Archaeological Project
Student Recipient: Paige Tester
Faculty Sponsor: Dr. Anne Rogers

Biology
Independent Research
Creating a RNA Interference Library of Cryptococcus Neoformans
Student Recipient: Matthew Alexander
Faculty Sponsor: Dr. Indrani Bose

Chemistry & Physics
Sounding Balloon Research/ Development Project
“Verso l’alto” (Increase of Ionizing Radiation at the Pfozzer Maximum over the Southern Appalachians)
Student Recipient: Michele Coker
Faculty Sponsor: Dr. Enrique Gomez

Verso l’alto -Investigation of Thunderstorm Ground Enhancbements (TGEs) and Atmospheric stratification of Terrestrial Gamma-ray Flashes (TGFs) in the Southern Appalachains
Student Recipient: Michele Coker
Faculty Sponsor: Dr. Enrique Gomez

Criminology and Criminal Justice
American Society of Criminology
Are Victims Blamed for their own Victimization: Preliminary Support for a Selective Choice Theory
Student Recipient: Ashley Hemsath
Faculty Sponsor: Dr. Albert Kopak

North Carolina Criminal Justice Association Conference
A Preliminary Look at Self-Esteem among Teens: Factors and Outcomes
Student Recipient: Gina Piekarski
Faculty Sponsor: Dr. Lisa Briggs

North Carolina Criminal Justice Association Conference
An Assessment of Educational Requirements in the Field of Criminal Justice and a Preliminary Look at Student Interest in Advanced Education
Student Recipient: Charles Young
Faculty Sponsor: Dr. Lisa Briggs

North Carolina Criminal Justice Association Conference
Changes in Alcohol Laws and On Campus Offenses
Student Recipient: Keaston Evitt
Faculty Sponsor: Dr. Jamie Vaske
North Carolina Criminal Justice Association Conference
Crime Control in the Age of Technology
Student Recipient: Taylor Sennett
Faculty Sponsor: Dr. Lisa Briggs

North Carolina Criminal Justice Association Conference
Mental Disorders and Antisocial Attitudes
Student Recipient: Summer Brathwaite
Faculty Sponsor: Dr. Jamie Vaske

North Carolina Criminal Justice Association Conference
Training and Confidence: An Important Combination in Effective Disaster Response?
Student Recipient: Samantha Mungro
Faculty Sponsor: Dr. Lisa Briggs

Forensic Science Program
Determination of Mitochondrial DNA Degradation in Hair Shaft Extracts using PCR
Student Recipient: Jeff Foster
Faculty Sponsor: Erin Burnside

Geoscientes & Natural Resources Independent Research
Effects of Hard Stabilization on a Hunting Island Salt Marsh
Student Recipient: Joel Bostic
Faculty Sponsor: Dr. Ben Tanner

Southeast Geological Society of America regional meeting
Late Pleistocene-Holocene Paleoenvironmental Study of Three Southern Appalachian Wetlands
Student Recipient: Daniel Beall, Aaron Chopp, Cullen Cogburn, Michelle Coker, Brittany Doll, Sydney Merrill, and Michael Williams
Faculty Sponsor: Dr. Benjamin Tanner

Geological Society of America Southeast Section
Use of Ground-Penetrating Radar (GPR) For Geoarchaeological Survey of Fort Sumter National Monument, South Carolina
Student Recipient: Emily Pendergrass
Faculty Sponsor: Dr. Blair Tormey

Southeastern GSA Conference
A Geometric Morphometric Study of an Upper Ordovician Trilobite Assemblage (Ampyxina powelli), Southwest Roanoke County, VA
Student Recipient: Aaron Howard
Faculty Sponsor: Dr. Michael Meyer

Southeastern GSA Conference
Effects of Hard Stabilization on a Hunting Island Salt Marsh
Student Recipient: Joel Bostic
Faculty Sponsor: Dr. Ben Tanner

GSA Southeastern Conference
How Important are TAs? Comparing Student Knowledge Retention in Online and Classroom Activities
Student Recipient: Rachel Salter
Faculty Sponsor: Dr. Michael Meyer

Mathematics and Computer Science
NC Council of Teachers of Mathematics
NC Council of Teachers of Mathematics Annual Conference
Student Recipient: Elizabeth Webster, Kriston Haynes, Sarah Martin, Deanna Minor, Adam Schrum, Candace Dillin, Zach Boyles, Michelle McDuffie, Kathryn Egloff, Annaka Lowe, Miranda Smith, Ashley Morton, Dustin Mull, Tiffany Cantrell, and Katie Ray
Faculty Sponsor: Dr. Kate Best

Mathematical Association of America
Explorations and Research in the History of Mathematics
Student Recipient: William Zac Wallace
Faculty Sponsor: Dr. Sloan Despeaux

Advertising Campaign
Smoky Mountain Undergraduate Research Conference on the History of Mathematics, VI
Student Recipient: Heather Allison and Morgan Boles
Faculty Sponsor: Dr. Sloan Despeaux
College of Business

Sport Management
College Sport Research Institute Conference
The case study of the Knight Commission: Analyzing the athletic and academic spending database for NCAA Division I to determine the justification of the patterns and trends in Division I athletic spending versus academic spending during the last several years.
Student Recipient: Brett Dalton, Daniel Crenshaw, Anthony Minnicozzi, and Allen Leone. Alternate: Liberty Cozart
Faculty Sponsor: Dr. Kadie Otto

College of Education and Allied Professions

Psychology
Southeastern Psychological Association Conference
Fixation, duration, fixation count, and color preference for reading under varying color conditions
Student Recipient: Sarah Ducharme, Joseph Toney, and Charles Warren
Faculty Sponsor: Dr. Ellen Sigler

Southeastern Psychological Association Conference
Study Habits of Greek Life Students
Student Recipient: Kelsea Watts
Faculty Sponsor: Dr. Ellen Sigler

College of Fine and Performing Arts

School of Art and Design
Exhibition on campus
Home
Student Recipient: Kendra Diaz
Faculty Sponsor: Dr. Jon Jicha

School of Music
Southeast Horn Workshop
Horn Choir Performance and Quartet Competition
Student Recipient: Justin Beebe, Henry Hoffman IV, Katelyn Johnson, Caitlyn Joyner, and Parker Walrod
Faculty Sponsor: Dr. Travis Bennett

National Association of Teachers of Singing
NATSAA National Association of Teachers of Singing Artists Award
Student Recipient: Bekka Mayen, Spencer Hughes, Beth Coffey, Joseph Coca, Austin McDowell, Jessica Nash, Mindy Knox, Brandi Moon, Hannah Day, Garrett Pace, Cameron Someliana-Lauer, and Angel Lee
Faculty Sponsor: Dr. Mary Kay Bauer
Communication Sciences and Disorders

American Speech Language Hearing Association
A Study of Learning Styles Linked to Learning the International Phonetic Alphabet
Student Recipient: Angela Chapman
Faculty Sponsor: Dr. Georgia Hambrecht

Independent Research
Improving Cognitive Function In Western NC: A Community Based Program
Student Recipient: Bree Branch and Kristin Cross
Faculty Sponsor: Dr. K. Leigh Morrow-Odom

Environmental Health Program
ASSE Region VI Research Presentations and Conference Participation
A Community Health Assessment of the Town of Auburn
Student Recipient: Ryan Michaud
Faculty Sponsor: Dr. Tracy Zontek

Hazard Analysis: Microwave Oven Leakage and Individuals with Pacemakers
Student Recipient: Melissa Kroeger
Faculty Sponsor: Dr. Tracy Zontek

Injury Analysis of Shift Work
Student Recipient: Kirstan Blender
Faculty Sponsor: Dr. Tracy Zontek

Survey of Hazardous Waste Disposal in Remote Indian Hospitals
Student Recipient: Josh Turner
Faculty Sponsor: Dr. Tracy Zontek

Independent Research
Sensitivity and specificity of morphological characters to identify Culex quinquefasciatus as confirmed by PCR
Student Recipient: Cody Dunlap
Faculty Sponsor: Dr. Brian Byrd

Design and Validation of a Novel Trapping Method to Collect Gravid Container-Inhabiting Mosquitoes
Student Recipient: Marissa Taylor
Faculty Sponsor: Dr. Brian Byrd

Quality of Sanitation for Hand-Held UV Lights
Student Recipient: Jessica Ricchio
Faculty Sponsor: Dr. Brian Byrd

Athletic Training Education Program

2013 International Association of Dance Medicine and Science Conference
Foot Pain in a High School Contemporary Dancer
Student Recipient: Sara Spencer
Faculty Sponsor: Dr. Rob Dingle

North Caroling Athletic Trainers Association Annual Meeting
Establishing Specificity of Concussion Special Tests
Student Recipient: Elena Keretses
Faculty Sponsor: Dr. Jill Manners

North Caroling Athletic Trainers Association Annual Meeting
The Effect of Pulsed Shortwave Diathermy, Moist Hot Pack and Passive Stretching on Hamstring Flexibility
Student Recipient: Sarah McNamara
Faculty Sponsor: Dr. Jill Manners

North Caroling Athletic Trainers Association Annual Meeting
Unique Eye Injury in a Collegiate Soccer Player
Student Recipient: Megan Kurzec
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association Annual Student meeting.
Pancreatic Transection in a High School Soccer Player
Student Recipient: Amanda Kowaleski
Faculty Sponsor: Dr. Jill Manners
Southeast Athletic Trainers’ Association
Annual Student meeting.
Traumatic Knee Injury in a High School Football Player
Student Recipient: John Michael “Mikko” Ablan
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student meeting.
Establishing Specificity of Concussion Special Tests
Student Recipient: Elena Keretses
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
A Unique Eye Injury in a Collegiate Soccer Player
Student Recipient: Megan Kurzec
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
A Unique Presentation of Herpes Zoster in a Collegiate Baseball Player
Student Recipient: Kelly Hoots
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
Acute Onset Foot Pain in a Ballet Dancer
Student Recipient: Sara Spencer
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
Femoral Osteochondral Defect in a 19 year old Collegiate Male Basketball Player
Student Recipient: Elizabeth Ballard
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
Insidious Onset Hand Pain in a Collegiate Volleyball Player
Student Recipient: Kyra Dodson
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
Pancreatic Transection in a High School Soccer Player
Student Recipient: Amanda Kowaleski
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
Slipped Capital Femoral Epiphysis in a Female Collegiate Golfer
Student Recipient: Katie Bradley
Faculty Sponsor: Dr. Jill Manners

Southeast Athletic Trainers’ Association
Annual Student Symposium
The Effect of Pulsed Shortwave Diathermy, Moist Hot Pack and Passive Stretching on Hamstring Flexibility
Student Recipient: Sarah McNamara
Faculty Sponsor: Dr. Jill Manners

Nutrition and Dietetics Program
WHEE Strive for 5!
WHEE Strive for 5! Interactive Nutrition Education
Student Recipient: Katie Peterson, Brandon Matuszyk, David Norville and Heather Nicholson
Faculty Sponsor: Dr. April Tallant

Kimmel School and Arts and Sciences

Department of Engineering & Technology and Department of Anthropology & Sociology - Independent Research
Compression Testing of Deer Femora as an Animal Model for Automobile Accidents
Student Recipient: Jennie Coffel
Faculty Sponsor: Drs. Martin Tanaka and John Williams

Undergraduate Academic Project Grants Awarded 2013-2014
### 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 - Italy (Lorenzo de Medici)</th>
<th>Study Abroad - Costa Rica</th>
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<tbody>
<tr>
<td>Student: Elizabeth Pratt</td>
<td>Student: Tracy Ramos</td>
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<th>Study Abroad - Japan</th>
<th>Study Abroad - Germany</th>
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<td>Student: Brenda Kaplan</td>
<td>Student: Leela Livis</td>
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<tr>
<th>Study Abroad - France</th>
<th>Study Abroad - Italy (Lorenzo de Medici)</th>
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<td>Student: Kayla Layden</td>
<td>Student: Michelle Barborich</td>
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<th>Study Abroad - Japan</th>
<th>Study Abroad - Netherlands</th>
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<td>Student: Sean Facello*</td>
<td>Student: Virginia Cohen</td>
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<th>Study Abroad - Netherlands</th>
<th>Study Abroad - Japan</th>
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<td>Student: Yuka Lopez</td>
<td>Student: Sarah MacCall</td>
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Honors College Board and Honors Staff
congratulate the recipient of the
2014 RODIN Award:
Dr. Jamie Vaske
Assistant Professor of Criminology and Criminal Justice

The RODIN recognizes faculty members who have supported undergraduate research at Western Carolina University by sponsoring student work in a variety of ways, including the Undergraduate Expo, the National Conference on Undergraduate Research, and Academic Project Grants.

Dr. Vaske’s Statement:

“I cast a wide net on undergraduate research from making it a requirement in some of my classes to allowing ideas to organically arise from conversations with students. There are two reasons for this approach. First, widespread commitment to undergraduate research is not something that is embraced at all universities, but is only offered to the “top” students. I want all of my students to have the opportunity to develop research skills and WCU is an institution that wholly supports this vision through research expos such as this one and through undergraduate research grants available through the Honors College and Office for Undergraduate Studies. Second, I recognize that many students are not aware that they may enter into graduate school or upper level administration at this point in their development. Yet, I know that research skills and knowledge of evidence based practices is a must for these positions; thus even if they do not relish and enjoy the aspects of undergraduate research (which I hope they do), I am helping them through this for their future selves.”
To commemorate the tenth anniversary of The Honors College, the student Board of Directors led the creation of a College medallion. The first medallion, featuring a pen and ink rendering of Reynolds Hall—the first home of The Honors College—was in use from 2007 to 2011. The new medallion, featuring the new residences for The Honors College—Balsam and Blue Ridge Halls—was illustrated by Asheville artist Lee Panthas and the graphic design was completed by Loretta Adams and Rubae Schoen. The medallion is worn at Commencement by students who complete the Honors curriculum, the dean, and in rare cases by special friends of The Honors College. The medallion replaced the purple cord Honors graduates had worn at commencements since 1997.

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