

THE FOURTEENTH ANNUAL

UNDERGRADUATE '12  
**EXPO** 12  
MARCH 26-27 / 2012

WESTERN CAROLINA UNIVERSITY

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# **UNDERGRADUATE EXPO 2012**

Western Carolina University  
March 26-27

## **WELCOME**

The fourteenth Undergraduate Expo features 223 student presenters and 63 faculty sponsors, spread over twenty five departments and programs and 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 out in the field. Please take some time to attend a presentation, even one that is out of your discipline, to learn more about what is taught and learned at your university.

## **THE EXPO RECEPTION**

The reception for students, faculty sponsors, and the community at large will begin at 5:30 p.m. on Monday, March 26, 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) awards will be announced.

## **POSTER SESSION**

The Expo Poster Session will be held in and around the University Center Grand Room from 5:00 p.m. to approximately 6:30 p.m. on Monday, March 26.

## **PRESS RELEASES FOR STUDENT PRESENTERS**

WCU's Office of Public Relations routinely sends news releases about student activities and honors to the students' hometown/local newspapers. Students taking part in the 2012 Undergraduate Expo who wish to take advantage of that service should visit the Web site <http://www.wcu.edu/22961.asp> to fill out an online form and submit it via e-mail 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 wish 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 2 p.m. and 5 p.m. on one of these days: Thursday, April 19, or Tuesday, May 1.

Students with scheduling conflicts that prevent them from appearing at one of those 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 e-mailed to [rholcomb@wcu.edu](mailto:rholcomb@wcu.edu).

## **NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH**

This year NCUR will be on the campus of the Weber State University, Ogden, Utah, March 28 - March 31. Please check the program on the next page for the complete list of the 50 NCUR26 abstracts accepted; this year, WCU is sixth in the nation in the number of accepted abstracts and once again number one in North Carolina.

## **ACKNOWLEDGMENTS**

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

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## **NATIONAL CONFERENCE ON UNDERGRADUATE RESEARCH 2012**

Below are the projects accepted, titles, student presenters, and their sponsors for NCUR26. Funding for travel to NCUR 26 was made possible by a generous grant from the Office of the Vice Chancellor of Student Affairs, and funds generated from local tuition earmarked for support of the Quality Enhancement Plan and undergraduate research in particular.

### **Biochemistry**

*Determining a structure/activity relationship for the triplex- and quadruplex-binding protein Stm1p*

Catherine Denning, presenter  
Michael Van Dyke, sponsor

### **Business/Finance/Accounting**

*Attendance Verification System*

Arthur McIntyre, presenter  
Bethany Davidson, sponsor

### **Cell & Molecular Biology**

*Molecular Identification of the exotic mosquito Aedes bahamensis (Diptera: Culicidae)*

Erin Gymburch, presenter  
Brian Byrd, sponsor

### **Chemistry**

*Development of Luminescence Lanthanide  $\beta$ -diketonate Complexes with 2,4,6-tri(2-pyridyl)-1,3,5-triazine ligand for Potential Biological Imaging*

Alexandra Dougherty, presenter  
Channa De Silva, sponsor

*Development of a Potentiostat using an Open Source Microcontroller for Electrochemical Analyses*

Kyle Fulle, Benjamin Hickman, presenters  
Jack Summers, sponsor

*Reactions of Superoxide Dismutase with Polyphenols*

Benjamin Hickman, Kyle Fulle, presenters  
Jack Summers, sponsor

### **Criminology**

*Blood and Authority in the Barrio: Mara Salvatrucha*

Crystal Owen, presenter  
Jamie Davis, sponsor

### **Education**

*Frequency and Perceptions of Dodgeball in the School Environment*

Anastasia Carlson, presenter  
David Claxton, sponsor

*Farm to School in a Kindergarten Classroom: Kindergartener Responses and Preservice Teacher Reflections*

Jessie Lay, Jordan Shook, presenters  
Patricia Bricker, sponsor

### **Electrical Engineering**

*Super Resolution Imaging: Verification of Theory via Optical Gain*

Casey Icenhour, Ainhoa Iglesias, presenters  
Bill Yang, Yequin Huang, sponsor

### **English**

*Lawrence's The Rainbow: Cycles of Women and Nature*

Kayla Beauduy, presenter  
Brent Kinser, sponsor

English, continued:

*Heroism in H.D.'s "Eurydice"*

Laura Isom, presenter

Annette Debo, sponsor

*The Madwomen in Our Attics: Jane Eyre and  
Wide Sargasso Sea's Treatment of Feminism*

Megan Mericle, presenter

Laura Wright, sponsor

*Whose Family is This?" Identity and  
Constructed Family in Gish Jen's The Love  
Wife*

Sebastian Pope, presenter

Annette Debo, sponsor

*Dream Visions in Anglo-Saxon Literature: A  
Study of "The Dream of the Rood" and  
"Caedmon's Hymn"*

Catherine Stiers, presenter

Mimi Fenton, sponsor

## Environmental Studies & Sciences

*Plastic Soup: The First Steps to Cleaning Up  
Our Oceans*

Jessica Hurlbut, presenter

Erin McNelis, sponsor

## Health Sciences & Public Health

*A Comparative Bioaerosol Study Designed to  
Understand Air Quality Impacts during High  
and Low Building Occupancy*

Kristina Bartlett, presenter

Burton Ogle, sponsor

Health Sciences & Public Health, continued:

*Open Dislocation of the PIP of the 5th digit in  
a Collegiate Football Player*

Heather Brown, presenter

James Scifers, sponsor

*An Evaluation of a Mass Causality  
Comprehensive Decontamination Drill for  
a Small Community Based Hospital*

Mikayla Deardorff, presenter

Burton Ogle, sponsor

## History

*By Grace Through Faith...*

Caroline Parsons, presenter

Mary Ella Engel, sponsor

*The War and the Wehrmacht: The Factors and  
Events Associated with the Rise and Decline  
of German Troop Morale During World War II*

Christopher Ray, presenter

Andrew Denson, sponsor

## International Studies

*Our Habanos: Elucidating the Phenomenon of  
Cuban Cigars*

Corey Atten, presenter

Lori Oxford, sponsor

*The Children of War: A Plight for Afghani  
Children*

Kriston Haynes, presenter

Annette Fletchall, sponsor

## Linguistics & World Languages

*The Shibboleth Defines Human Association*

Olivia Causby, presenter  
Jamie Davis, sponsor

## Literature

*Tending the Humanist Garden: Voltaire, Candide, and the Meaning of Heroism*

Andrew Benton, presenter  
Mimi Fenton, sponsor

*That Two-Faced Bitch: Psychoanalysis of Lady Brett Ashley*

Kevin Hipps, presenter  
Annette Debo, sponsor

## Mathematics

*Security Properties of Elliptic Curve Des*

Andrew Kimball, presenter  
Liljana Babinkostova, sponsor

## Music

*The Many Colors of "Twinkle Twinkle Little Star"*

Alyssa Gillikin, presenter  
Terri Armfield, sponsor

*Philosophy of Music: A Comparison of Musical Ideas in the Ancient and Baroque Periods*

Rebecca Lautier, presenter  
Christina Reitz, Bruce Frazier, sponsor

*An Analysis of Compositional Techniques Used By John Williams in Star Wars: A New Hope*

Rebecca Lautier, presenter  
Christina Reitz, Bruce Frazier, sponsor

Music, continued:

*How Does Cumulative Advantage/Disadvantage Affect the Availability of Music Curriculum in Public Schools?*

Carolyn Wilkerson, presenter  
Peter Nieckarz, sponsor

## Nutrition

*Dietary Changes of Undergraduate Students Enrolled in a Wellness Course at a Public University*

Krystal Arrington, presenter  
April Tallent, sponsor

*Food Truckology; Food Trucks - an Alternative for Meals on the Go*

Patricia Hipgrave, presenter  
Wayne Billon, sponsor

*Comparison of Students' Dietary Habits in Relationship to Current Major*

Lauren Runken, Katie Tallman, Emily Lenski, presenters  
Brenda Marques, sponsor

## Philosophy & Ethics

*Poverty and Moral Freedom: A Foray into the Ethics of Simone de Beauvoir*

Michael Branon, presenter  
John Whitmire, sponsor

*The Individual-Social Conflict: How Definitions of Freedom and Duty Impact Moral and Political Systems*

Emily Elders, presenter  
John Whitmire, sponsor

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## Political Science

### *Professors' Office Doors: Political Expression in the Professoriate*

Colin Condreay, presenter  
Christopher Cooper, sponsor

### *The Conflicted Legal Origins of the European Convention on Human Rights*

Seth Crockett, presenter  
Todd Collins, sponsor

### *Presidential Debates and Third Party Candidates*

Catherine Denning, presenter  
Cecil Livingston, sponsor

### *Public Policy Impacts of Rural and Urban Land Ethics in the Southeastern United States*

Emily Elders, presenter  
Todd Collins, David Henderson, sponsors

## Psychology

### *Personality and Body Art*

Alyssa Gardner, Shay Scruggs, David Chandler, presenters  
Mickey Randolph, sponsor

### *Hair Color as a Determinant of Attractiveness: Testing Evolutionary Hypotheses*

Joseph Melnyk, presenter  
David McCord, sponsor

## Religious Studies

### *Who is Tom Bombadil: "The Mystery of the Master of the Old Forest"*

Meredith Gasaway, presenter  
John Whitmire, sponsor

## Sociology

### *Hijacking Agency: Social Stigma, Medical Expertise, and the Production of the Medicalized Master Status*

Sebastian Pope, presenter  
Heather Talley, sponsor

### *Cashing In: In Search of the Authentic in Rock Music Subcultures*

Kathrine Sudol, presenter  
Peter Nieckarz, sponsor

### *What is Sex? How Students in a Small Southern University Define Sex Compared to National Studies*

Jessica Trapp, Jenna Cordrey, Alyssa Gardner, presenters  
Marilyn Chamberlin, sponsor

### *Cosmopolitan Activism versus the Niche Market: a Case Study of The Coordinadora Estatal de Productores de Café de Oaxaca*

Nicholas Weitzel, presenter  
Anthony Hickey, sponsor

### *Addressing Development as an Objective Consumable: an Autoethnography*

Nicholas Weitzel, presenter  
Peter Nieckarz, sponsor

## Theatre/Drama

### *Born in Blood*

Alexander Volpi, presenter  
Susan Brown-Strauss, sponsor

## Women and Gender Studies

### *Backdoor Sexism: The Anti-woman Consequences of Pro-woman Legislation in France*

Tiffany Barnwell, presenter  
Jamie Davis, sponsor

# UNDERGRADUATE EXPO 2012

Presentations will be held at Western Carolina University, March 26-27, according to college and department. Below are project titles, presenters, sponsors, time, and place of presentation.

\* ~ denotes a presentation also selected for NCUR 26

## MONDAY, MARCH 26, 2012

### 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

*What is Sex? How Students in a Small Southern University Define Sex Compared to National Studies*

Student Presenters: Jessica Trapp,\* Alyssa Gardner\*  
Faculty Sponsor: Marilyn Chamberlin

### Biology

*Ten Years of Biodiversity in Great Smokey Mountains National Park: Where is *Pseudomonas aeruginosa**

Student Presenter: Sarah N. Justice  
Faculty Sponsor: Sean O'Connell

*Genetic Influences On Aggression And Territory Selection In Song Sparrows*

Student Presenter: Haley B. Pace  
Faculty Sponsor: Ron C. Michaelis

*Testing the Rationale of Candida Cleanse Diets*

Student Presenters: Julie Rodeck, Brian Hass, Shannon Johnson  
Faculty Sponsor: Greg Adkison

*The Identification of Some Indian Strains of *Cryptococcus**

Student Presenter: Katherine Turnbull  
Faculty Sponsor: Indrani Bose

### Chemistry & Physics

*Primer Design for Mosquito Blood Meal Project*

Student Presenter: Caleb Beck  
Faculty Sponsor: Patricia A Foley

*Characterization of Rcn1 as a Molecular Chaperone of Yeast Calcineurin*

Student Presenter: Tess Branon  
Faculty Sponsors: Kyle Cunningham, Johns Hopkins University, & Channa R. De Silva

*Rheological Properties of Aqueous Wax Emulsions*

Student Presenters: Samuel Burrus, Julie Combs  
Faculty Sponsor: Cynthia A. Atterholt

*DNA-binding Protein Identification of LacI and Surrounding Proteins*

Student Presenter: Kirsten Collins  
Faculty Sponsor: Michael Van Dyke

*Development of Luminescence Lanthanide  $\beta$ -diketonate Complexes with 2,4,6-tri(2-pyridyl)-1,3,5-triazine ligand for Potential Biological Imaging*

Student Presenter: Alexandra Dougherty\*  
Faculty Sponsor: Channa R. De Silva

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

Chemistry & Physics (continued)

### *Comparison of Fingerprint Development Methods Using Different Substrates*

Student Presenter: NaKristin Greene  
Faculty Sponsor: Britannia Bintz

### *FTIR-ATR Fiber Analysis*

Student Presenter: Kristen Perakis  
Faculty Sponsor: Erin Burnside

## **Chemistry & Physics, Forensic Science Program**

### *Identical or Fraternal? Resolution through Nuclear DNA Analysis*

Student Presenter: James Moline  
Faculty Sponsor: Patricia A. Foley

### *Evaluation of Qiagen's Investigator Quantiplex HYres Quantification Kit*

Student Presenter: David Russell  
Faculty Sponsor: Patricia A. Foley

## **English**

### *Many Facets: Poetry by Amanda Grippe*

Student Presenter: Amanda Grippe  
Faculty Sponsor: Catherine Carter

## **Mathematics & Computer Science**

### *A Natural Language Parser*

Student Presenters: Benjamin Casses, Stephen Nanney  
Faculty Sponsor: Mark A. Holliday

### *Place Your Bets: The Design and Implementation of a Blackjack Game*

Student Presenters: Raphel Ester, Shawn Darveaux  
Faculty Sponsor: Mark A. Holliday

Mathematics & Computer Science (continued)

### *The Physics Engine for a Computer Game*

Student Presenters: Gregory Ferrin, Shawn Darveaux  
Faculty Sponsor: Mark A. Holliday

### *A Marching Band Drill Book Application*

Student Presenters: Cameron Griser, Geoff Walter  
Faculty Sponsor: Mark A. Holliday

### *The Art of Geometry: Mathematical Innovations in Cathedrals*

Student Presenter: Kriston Haynes\*  
Faculty Sponsor: Sloan Despeaux

### *Make Your Move: Chess Artificial Intelligence*

Student Presenter: Benjamin Purdy  
Faculty Sponsor: Mark A. Holliday

### *The Physics Engine and Character Animation for a Computer Game*

Student Presenter: Christopher Williams  
Faculty Sponsor: Mark A. Holliday

## **Modern Foreign Languages**

### *The Shibboleth Defines Human Association*

Student Presenter: Olivia L. Causby\*  
Faculty Sponsor: Jamie Davis

### *Japan and I ~ Past, Present, Future~ Volume II*

Student Presenter: Dorothy Anna Hunt  
Faculty Sponsor: Yumiko Ono

### *North Carolina's Harvest of Shame*

Student Presenter: Jessica McLamb  
Faculty Sponsor: Jamie Davis



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## **COLLEGE OF BUSINESS**

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

#### *Music as a Public Good*

Student Presenter: Briton Bennett  
Faculty Sponsor: Stephen Miller

### Business Administration & Law and Sport Management

#### *The Necessity of Ethics in Mediation*

Student Presenter: Ernest Berry  
Faculty Sponsor: Lorrie Willey

#### *ARAMARK Internship*

Student Presenter: Asa Joel Boyd  
Faculty Sponsor: Lorrie Willey

#### *What Is Your Leadership Style?*

Student Presenter: Stephanie Deese  
Faculty Sponsor: Lorrie Willey

#### *Is Carnival Cruise Line Sinking our Economy?*

Student Presenter: Adam Keiper  
Faculty Sponsor: Janet Ford

#### *Annotated Crew Contract*

Student Presenter: Leah Thomas  
Faculty Sponsor: Debra Burke

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

### Psychology

#### *Measuring Attention with Reversible Figures*

Student Presenter: Matthew Halliday  
Faculty Sponsor: Winford Gordon

#### *Do Animals Go To Heaven? (And, If So, Which Ones?)*

Student Presenters: Sean Kearney, Alexandra Foster  
Faculty Sponsor: Hal Herzog

#### *Measuring Attention Recovery in Real Time Across Various Environments*

Student Presenters: Ashlee Shemery, Noelle McConnell,  
Matthew Halliday  
Faculty Sponsor: Winford Gordon

#### *The Random Affect Misattribution Procedure Allows Simultaneous Explicit and Implicit Measures*

Student Presenters: Ashlee Shemery, Noelle McConnell  
Faculty Sponsor: Winford Gordon

### School of Teaching and Learning

#### *Special Education and General Education Teachers' Perceptions of Students with Dis- abilities in General Education Settings*

Student Presenter: Ashley Anderson  
Faculty Sponsor: Valerie L. Mazzotti

#### *Frequency and Perceptions of Dodgeball in the School Environment*

Student Presenter: Anastasia Carlson\*  
Faculty Sponsor: Maridy Troy

#### *Pediatric Physical Therapy*

Student Presenter: Jessie Conner  
Faculty Sponsor: Maridy Troy

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# **COLLEGE OF FINE AND PERFORMING ARTS**

## School of Art and Design

### *Sancta Emergency Shelter*

Student Presenter: Kristen Blatz  
Faculty Sponsor: Erin Adams

### *Sustainable Floating Home*

Student Presenter: Kristen Blatz  
Faculty Sponsor: Jane Nichols

### *Tohi Health and Wellness Retreat*

Student Presenters: Kristen Blatz, Tessa Eaton  
Faculty Sponsor: Jane Nichols

### *The Preserve Weight Loss Center*

Student Presenters: Teresa Pearman, Amber Cramm  
Faculty Sponsor: Jane Nichols

### *Highlands Wellness Center: Holistic Resort & Spa*

Student Presenters: Brooke Smith, Leslie Wilson  
Faculty Sponsor: Jane Nichols

### *Sancta Relief Project*

Student Presenter: Brooke Smith  
Faculty Sponsor: Erin Adams

These senior Commercial and Electronic Music Program students are providing audio samples of their work for the Undergraduate Expo Poster Session:

Brandon Chapman, Rebecca Lautier, David Mompont, Jeff Small, Owen Tharp

## **HEALTH AND HUMAN SCIENCES**

## Criminology and Criminal Justice

### *Gays, Hate Crime, and You*

Student Presenter: Michael Bauer  
Faculty Sponsor: Cynthia Caravelis Hughes

### *FAST Track*

Student Presenters: Savannah Bell, Kelly Palmer,  
Lindsey Newton, Kacey Tilley  
Faculty Sponsor: Albert Kopak

### *From Da Streetz: A Statistical Analysis of Crime*

Student Presenters: Samantha Brothers, Spencer  
Lockridge, Logan Presnell, Nakristin Greene  
Faculty Sponsor: Albert Kopak

### *Skeletons in the Closet: Statistics of Crime in Two American Cities*

Student Presenters: Weston Burnette, Chase Worley,  
Travis Cassada, Kimberly Johnson  
Faculty Sponsor: Albert Kopak

## Criminology and Criminal Justice (continued)

### *The Graduation Hypothesis: Animal Cruelty and Serial Killers*

Student Presenter: Leah Fikre Butler  
Faculty Sponsor: Lisa Briggs

### *Rising Violence In Schools*

Student Presenter: Alexandra Cassell  
Faculty Sponsor: Lisa Briggs

### *Effective Correctional Interventions for Reducing Recidivism*

Student Presenters: Matthew Causby, Kevin Holshouser,  
Cody Groesser, Amber Shook, Bradley Farra  
Faculty Sponsor: Jamie Vaske

### *Deep South Heat: Crime in Three Southern Cities*

Student Presenters: Grayson Cesena, Darren Baily,  
Jesse Truesdell, Phillip Huneycutt  
Faculty Sponsor: Albert Kopak

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

Criminology and Criminal Justice (continued)

### *A Statistical Analysis of Mean Crime Rates of Three Southeastern Cities*

Student Presenters: Regina Cline, Erin Andrews, Cody Hall, Jodi Evans  
Faculty Sponsor: Albert Kopak

### *Social Justice and White Collar Crime*

Student Presenter: Justin Coker  
Faculty Sponsor: Cynthia Caravelis Hughes

### *The Social Implications of Sexting*

Student Presenter: Lauren Conrad  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Prison Privatization*

Student Presenters: Matthew Cook Justin Davis, James Bowlin, Chris Mann, Ethan McNeilly  
Faculty Sponsor: Jamie Vaske

### *Crime Statistics Southern Style*

Student Presenters: Lydia Dirscherl, Jamie Kemper, Kelly Palmer, Melissa Loucks  
Faculty Sponsor: Albert Kopak

### *Crime Research in Cities*

Student Presenters: Trevor Dunlap, Samantha Hayes, Zach Warden, Christopher Rubinic  
Faculty Sponsor: Albert Kopak

### *Peach State Crime*

Student Presenters: Kristina Edmondson, Anthony McCarty, Brock Jones, Katy Parrott  
Faculty Sponsor: Albert Kopak

### *Effectiveness of Deterrence Based Policies*

Student Presenters: Karla Furnari, Tracy King, Amanda Dupree, Jeff Grandy, Savannah Bell  
Faculty Sponsor: Jamie Vaske

### *Size of Jurisdiction and Violent Crime Rates*

Student Presenters: Karla Furnari, Freedom Critcher, Luke McClellan, Christian Lovingood, Scott Lindsay, Monique Maenado  
Faculty Sponsor: Jamie Vaske

### *Effectiveness of Problem Oriented Policing*

Student Presenters: Melisa Glatte, Heath Stanley, Justin Smith, Freedom Critcher  
Faculty Sponsor: Jamie Vaske

Criminology and Criminal Justice (continued)

### *Hate Crimes: Myth or Reality?*

Student Presenter: Cameron Holmes  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Are Housing Rights Equal for African Americans?*

Student Presenter: Zachary Holmes  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Gun Control in America*

Student Presenters: Nickolis Kerrigan, Lydia Dirscherl, Brandon Martinez, Teddy Rhoney, Adam Dodson  
Faculty Sponsor: Jamie Vaske

### *Women In Law Enforcement*

Student Presenter: Tracy King  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Is Racial Profiling Considered Normative?*

Student Presenters: Melissa Loucks, Darren Bailey, Tiffany Hicks, Seth King  
Faculty Sponsor: Jamie Vaske

### *Policing Methods: The Effective and Ineffective*

Student Presenters: Anthony McCarty, Derick Frye, Brandon Furr, Jordan Tripp, Matthew Wilkerson  
Faculty Sponsor: Jamie Vaske

### *The Social Justice View of Child Porn*

Student Presenter: Delana McCroskey  
Faculty Sponsor: Cynthia Caravelis Hughes

### *How Gun Control and Gun Ownership Levels Impact Rates of Violence*

Student Presenters: Elizabeth McEwan, Mike Cook, Cameron Holmes, Brandon Livingston  
Faculty Sponsor: Jamie Vaske

### *The Effects of Drug Laws on Social class*

Student Presenter: Caleb Moore  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Racial Profiling and Policing*

Student Presenters: Ashley Norman, Mark Hansen, Brian Sandlin, Stetson Duncan, Cody Moore  
Faculty Sponsor: Jamie Vaske

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

Criminology and Criminal Justice (continued)

### *Cyber Bullying*

Student Presenter: Heather Oaks  
Faculty Sponsor: Cynthia Caravelis Hughes

### *The Discrepancies between Males and Females in the Criminal Justice Process*

Student Presenter: Chelsea A. Owens  
Faculty Sponsor: Albert Kopak

### *Are Female Sex Offenders Treated Equally?*

Student Presenter: Abigail Rich  
Faculty Sponsor: Maggie Orender

### *A Theoretical Framework for Implementing Emergency Notification Systems at the UNC Member Institutions*

Student Presenter: Austin L. Ritch  
Faculty Sponsor: Thomas C. Johnson

### *Child Abuse Explained Through Social Learning Theory*

Student Presenter: Kortney Schumann  
Faculty Sponsor: Stephen E. Brown

### *Myths & Realities of Criminal Profiling*

Student Presenter: Kortney Schumann  
Faculty Sponsor: Albert Kopak

### *Identifying the Risk Factors for Juvenile Conviction*

Student Presenter: Teeairia Shell  
Faculty Sponsor: Jamie Vaske

### *Different Types of Correctional Treatment and Their Effects on Recidivism Rates*

Student Presenters: Jerlesha Smith, Jamie Kemper, Cornelius Williams, Bryan Lusk  
Faculty Sponsor: Jamie Vaske

### *White Collar Crime*

Student Presenter: Tyler Stafford  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Atrocity in the City*

Student Presenters: Felicia Staggs, Kendra Puckett, Tracy King, Jerlesha Smith  
Faculty Sponsor: Albert Kopak

Criminology and Criminal Justice (continued)

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

Student Presenter: Jackson Stewart  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Racial Issues Among Native Americans*

Student Presenter: Jacob Tipton  
Faculty Sponsor: Cynthia Caravelis Hughes

### *Comparison of Crime Rates across North Carolina and Georgia*

Student Presenters: Katie M. Wilson, Derrik Campbell, Travis Benton, Blake Sides  
Faculty Sponsor: Jamie Vaske

### *Criminology: The Rational Choice Theory of Crime*

Student Presenter: Sarah Zucca  
Faculty Sponsor: Stephen E. Brown

## **School of Health Sciences**

### *Supplemental Use and Knowledge of WCU Freshman Athletes and Non-Athletes*

Student Presenters: Courtney Bowen, Brooke Sales, Jasea Painter  
Faculty Sponsor: Brenda Marques

### *Joint Hypermobility in a High School Female Athlete*

Student Presenter: Ashley Bracken  
Faculty Sponsor: James Scifers

### *Insidious Onset Foot Pain In A Recreational Distance Runner*

Student Presenter: Kyra Dodson  
Faculty Sponsor: James Scifers

### *Food Truckology; Food Trucks - An Alternative for Meals on the Go*

Student Presenter: Patricia C. Hipgrave\*  
Faculty Sponsor: Wayne Billon

### *Cost Analysis of MyPlate, Weight Watchers, Atkins, and Fast Food Diets*

Student Presenters: Ashley Jones, Brittany Conner  
Faculty Sponsor: Wayne Billon

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## **HEALTH AND HUMAN SCIENCES, CONTINUED**

School of Health Sciences (continued)

*Reducing Injury to Bariatric Patients and Health Care Providers Utilizing the Situation, Background, Assessment, Recommendation (SBAR) Procedure in a Small, Indian Health Service Hospital*

Student Presenter: Maika Lee

Faculty Sponsor: Burton Ogle

*Effects of Cocoa Flavanols on Blood Pressure and Endothelial Function*

Student Presenter: Nicole R. Levi

Faculty Sponsor: Wayne E. Billon

*Measuring and Comparing Knowledge of Five Key Micronutrients in Adult Vegetarians*

Student Presenter: Nicole Martinez

Faculty Sponsor: April Tallant, Wayne Billon

*Mercury Sediment Sorption for Remedial Predictive Processes*

Student Presenter: Jacob Sinclair

Faculty Sponsor: Burton Ogle

*Sensory Analysis of Gluten-Free Quick Breads and Fat Modification*

Student Presenter: Brandon Stepp

Faculty Sponsor: Wayne Billon

### **School of Nursing**

*Swan-Ganz Catheter*

Student Presenter: Sandra Bley

Faculty Sponsor: Steven Forst

*The Risks and Benefits of Statin Drugs - A Financial and Medical Success*

Student Presenter: Charlene Anne Haug

Faculty Sponsor: Mary Knowlton

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**MONDAY, MARCH 26, 2012**

**PRESENTATIONS**

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**ARTS AND SCIENCES**

**Anthropology & Sociology**

Time: 12:15 PM      Place: McKee 110  
*Addressing Development as an Objective  
Consumable: An Autoethnography*  
Student Presenter: Nicholas Weitzel\*  
Faculty Sponsor: Peter Nieckarz

Time: 12:20 PM      Place: McKee 110  
*Cashing In: In Search of the Authentic in  
Rock Music Subcultures*  
Student Presenter: Kathrine Sudol\*  
Faculty Sponsor: Peter Nieckarz

**History**

Time: 2:30 PM      Place: McKee 229  
*The Garden of Eden of the Red Man: William  
Holland Thomas and the Eastern Cherokee*  
Student Presenter: Andrew Benton\*  
Faculty Sponsor: Richard Starnes

Time: 2:45 PM      Place: McKee 229  
*Effects of the First Day on the Somme*  
Student Presenter: Andrew E. Young  
Faculty Sponsor: Alexander Macaulay

Time: 3:00 PM      Place: McKee 229  
*Suppressing the Swastika: The American  
Denazification Effort Within Occupied  
Germany, 1945-1949*  
Student Presenter: Adam Ray\*  
Faculty Sponsor: David Dorondo

Time: 3:15 PM      Place: McKee 229  
*The Miracle Cactus: Peyote and Native  
American Religious Freedom*  
Student Presenter: Alice Lapoint  
Faculty Sponsor: Mary Ella Engel

Time: 3:30 PM      Place: McKee 229  
*Sea-Wolf of the Confederacy: Commerce  
Raiding and the CSS Alabama*  
Student Presenter: Stephen Harris Widener  
Faculty Sponsor: Richard D. Starnes

Time: 3:45 PM      Place: McKee 229  
*The Possibilities and Potential of an  
Appalachian Life: The Journey of Dawn  
Gilchrist Young*  
Student Presenter: Holly Kristen Monteith  
Faculty Sponsor: Elizabeth McRae

Time: 4:00 PM      Place: McKee 229  
*NC Amendment One: Making History*  
Student Presenter: T'Shana McClain  
Faculty Sponsor: Elizabeth McRae

**Modern Foreign Languages**

Time: 4:00 PM      Place: McKee 116  
*Spain: Partiality in Neutrality*  
Student Presenter: William Tyler Askew  
Faculty Sponsor: Jamie Davis

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## **COLLEGE OF BUSINESS**

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

Time: 2:30 PM                      Place: Forsyth 312

*FCC vs. Fox Television Stations*

Student Presenter: Larissa Capps

Faculty Sponsor: Janet Ford

Time: 2:45 PM                      Place: Forsyth 216

*Football Team Gets Death Penalty*

Student Presenter: Valerie Parks

Faculty Sponsor: Lorrie Willey

Time: 3:00 PM                      Place: Forsyth 216

*Oceanic Pollution and the Destruction of  
Coral Reefs*

Student Presenter: Shelby Stribling

Faculty Sponsor: Lorrie Willey

Time: 3:15 PM                      Place: Forsyth 216

*Employee Privacy*

Student Presenter: Josh Moore

Faculty Sponsor: Lorrie Willey

Time: 4:00 PM                      Place: Forsyth 216

*Pink Slime- The Ethics of the Fast Food  
Industry and Employees*

Student Presenter: Erica Long

Faculty Sponsor: Lorrie Willey

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

### **Human Services**

Time: 11:15 AM                      Place: Reid 109

*Fontana Area Clean-up*

Student Presenters: Kim Miller & Zedron Porter

Faculty Sponsor: Maurice Phipps

Time: 11:30 AM                      Place: Reid 109

*The Wild Rover: A Business Plan for an Irish  
Survival Skills School*

Student Presenter: Gavin Beetlestone

Faculty Sponsor: Debby Singleton

Time: 11:45 AM                      Place: Reid 109

*Outdoor Recreation Survey of WCU Students*

Student Presenters: Jessica Russo, Carson Pope, & Luke  
Dotson

Faculty Sponsor: Ben Tholkes

Time: 12:00 PM                      Place: Reid 109

*Whee Adventure Guides*

Student Presenters: Ben David Jacob, Kim Miller, & Troy  
Adams

Faculty Sponsor: Debby Singleton

Time: 12:15 PM                      Place: Reid 109

*New River Dude Ranch Business Plan*

Student Presenter: Autumn Wheeler

Faculty Sponsor: Debby Singleton

Time: 12:30 PM                      Place: Reid 109

*Formation of The Smoky Mountain Paddling  
Club*

Student Presenter: Carson Pope

Faculty Sponsor: Maurice Phipps

Time: 12:45 PM                      Place: Reid 109

*Resume Research*

Student Presenters: Autumn Wheeler, Annabel Plush, &  
Nick Provost

Faculty Sponsor: Ben Tholkes

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

Time: 1:25 PM                      Place: Killian 108

*Interdisciplinary Perceptions of the Quest for  
Economic and Political Stability in a Develop-  
ing Country: Jamaica, West Indies*

Student Presenters: Matthew Campbell, Phillip Prince,  
Kari Mauck, Megan White

Faculty Sponsor: Victoria Faircloth

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

### Criminology and Criminal Justice

Time: 11:15 AM      Place: Belk 304  
*Emergency Evacuation and Sheltering in  
Place*  
Student Presenter: Erica Black  
Faculty Sponsor: Robert T. Berry

Time: 11:40 AM      Place: Belk 304  
*Multi-Hazard Versus Hazard-Specific  
Emergency Operations Plans*  
Student Presenter: Matthew Gould  
Faculty Sponsor: Robert T. Berry

## **THE KIMMEL SCHOOL**

### Engineering & Technology

Time: 11:15 AM      Place: Belk 266A  
*The Design and Fabrication of a Pneumatic  
Radial Engine*  
Student Presenters: Joseph Gramley, Theo Waltz  
Faculty Sponsor: Chip Ferguson

Time: 2:00 PM      Place: Belk 365  
*Super Resolution Imaging: Verification of  
Theory via Optical Gain*  
Student Presenters: Casey Icenhour, Ainhoa Iglesias\*  
Faculty Sponsor: Weiguo Yang



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# **TUESDAY, MARCH 27, 2012**

## **PRESENTATIONS**

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### **ARTS AND SCIENCES**

#### English

Time: 11:00 AM      Place: Coulter 203  
*The Madwomen in Our Attics: Jane Eyre and  
Wide Sargasso Sea's Treatment of Feminism*  
Student Presenter: Megan Mericle\*  
Faculty Sponsor: Laura Wright

Time: 11:00 AM      Place: Coulter 203  
*Ethics and the Pharmaceutical Industry*  
Student Presenter: Patrick O'Neal  
Faculty Sponsor: Laura Samal

Time: 12:35 PM      Place: Coulter 203  
*Tending the Humanist Garden: Voltaire, Can-  
dide, and the Meaning of Heroism*  
Student Presenter: Andrew Morgan Benton\*  
Faculty Sponsor: Mimi Fenton

Time: 11:00 AM      Place: Coulter 203  
*Heroism in H.D.'s "Eurydice"*  
Student Presenter: Abigail Isom\*  
Faculty Sponsor: Annette Debo

Time: 12:35 PM      Place: Coulter 203  
*Charles Dickens's Dual Narrative and the  
Ladies of Bleak House*  
Student Presenter: Kate McMullen  
Faculty Sponsor: Brent Kinser

Time: 12:35 PM      Place: Coulter 203  
*Dream-Visions in Anglo-Saxon Literature:  
A Study of The Dream of the Rood and  
Caedmon's Hymn*  
Student Presenter: Catherine Stiers\*  
Faculty Sponsor: Mimi Fenton

Time: 12:35 PM      Place: Coulter 203  
*No Place Like Utopia: Understanding  
Ursula K. Le Guin's "The Ones Who Walk  
Away from Omelas"*  
Student Presenter: Amelia Holmes  
Faculty Sponsor: Annette Debo

### **COLLEGE OF BUSINESS**

#### Business Administration & Law and Sport Management

Time: 2:15 PM      Place: Forsyth 216  
*Ethics Overboard*  
Student Presenter: Holly Vogler  
Faculty Sponsor: Lorrie Willey

Time: 2:15 PM      Place: Forsyth 214  
*What the Media Doesn't Show: Life after  
Fraud!*  
Student Presenter: Emilee Summerlin  
Faculty Sponsor: Lorrie Willey

Time: 3:45 PM      Place: Forsyth 214  
*Analysis of Gender Discrimination*  
Student Presenter: Joanna Andrews  
Faculty Sponsor: Lorrie Willey

Time: 4:00 PM      Place: Forsyth 214  
*The Ethics of Apple's Chinese Labor Practices*  
Student Presenter: Gary Brackett  
Faculty Sponsor: Lorrie Willey

Time: 9:30 AM      Place: Forsyth 231  
*FCC vs. Fox*  
Student Presenter: Mary Finley  
Faculty Sponsor: Debra Burke

# **COLLEGE OF FINE AND PERFORMING ARTS**

## School of Music

Time: 11:00 AM      Place: Coulter 351  
*An Analysis of Compositional Techniques used  
by John Williams in Star Wars: A New Hope*  
Student Presenter: Rebecca Lautier\*  
Faculty Sponsor: Bruce Frazier

Time: 11:30 AM      Place: Coulter 351  
*World Influences in the Music of the Beatles*  
Student Presenter: Rebecca Lautier\*  
Faculty Sponsor: Christina Reitz

# **COLLEGE OF HEALTH AND HUMAN SCIENCES**

## Communication Sciences & Disorders

Time: 2:00 PM      Place: McKee G09  
*Research in Phonetics*  
Student Presenters: Hannah Painter  
Faculty Sponsor: Georgia Hambrecht

Time: 1:00 PM      Place: Moore 107  
*Emergency Operation Plans for a Small  
Community Based Hospital*  
Student Presenter: Mikayla Deardorff\*  
Faculty Sponsor: Buton Ogle

Time: 12:30 PM      Place: Moore 102  
*Molecular Identification of Aedes bahamensis*  
Student Presenter: Erin Gymburch\*  
Faculty Sponsor: Brian Byrd

## School of Health Sciences

Time: 9:30 AM      Place: Belk 407  
*How Many Servings are Really on your Plate?*  
Student Presenters: Rachel Nelson, Olivia Jacobs,  
Zakiyyah Stewart, & Joseph Blake  
Faculty Sponsor: April Tallant

Time: 12:45 PM      Place: Moore 102  
*Vertical Distribution of Aedes Mosquitoes on  
WCU's Campus*  
Student Presenter: Hope Mason  
Faculty Sponsor: Brian Byrd

Time: 12:35 PM      Place: Moore 107  
*Electrical Safety Concerns Associated with  
Boat Hauling in Dillingham, Alaska*  
Student Presenter: Lailani Nicholette Rockholt  
Faculty Sponsors: Tracy Zontek, Burton Ogle

Time: 1:00 PM      Place: Moore 102  
*Identifying the Larvae of Aedes triseriatus and  
Aedes hendersoni*  
Student Presenters: Michael Riles & Kayla Branciforte  
Faculty Sponsor: Brian Byrd

Time: 2:05 PM      Place: Belk 412  
*How Many Servings are Really on Your Plate?  
(repeat)*  
Student Presenters: Rachel Nelson, Olivia Jacobs,  
Zakiyyah Stewart, & Joseph Blake  
Faculty Sponsor: April Tallant

# **THE KIMMEL SCHOOL**

## Construction Management

Time: 11:00 AM      Place: Belk 271  
*Free Heating and Cooling in Construction*  
Student Presenter: Samuel Colin Scott  
Faculty Sponsor: George Ford

# UNDERGRADUATE ACADEMIC PROJECT GRANTS

## AWARDED 2011-2012

Initiated by Chancellor John Bardo in 1996, the Undergraduate Academic Projects Grant Program funds a variety of student projects. The committee awarded 64 grants this year.

Members of the UAPGP Committee are

Robert Mulligan .....	Business
Hal Herzog .....	Education and Allied Professions
Kathy Mathews .....	Arts and Sciences
Christina Reitz.....	Fine and Performing Arts
Douglas Kinard .....	Kimmel School of Construction Management and Technology
Tracy Zontek.....	Health and Human Sciences
Brian Railsback.....	Honors College

### Anthropology & Sociology

#### **North Central Sociological Association 2012 Annual Meeting, Pittsburg, PA**

*On Rural Sprawl and the Simulated: A  
Qualitative Study and Addressing Development  
as an Objective Consumable: An Autoethnography*

Student Recipient: Nicholas Weitzel\*  
Faculty Sponsor: Dr. Anthony Hickey

### Art and Design

#### **Art 234**

*Cartesian Creation: Art and Experimentation  
Through Computer Numerical Control*

Student Recipient: Dakota Ling  
Faculty Sponsor: Dr. Matt Liddle

#### **Hunter Library Photography Exhibition**

*Exterior Space*

Student Recipient: Ian Michael Ward  
Faculty Sponsor: Dr. Cathryn Griffin

### Biology

#### **American Society for Microbiology, San Francisco, CA**

*Ten Years of Microbe Hunting in Great  
Smoky Mountains National Park: Where is  
Pseudomonas aeruginosa?*

Student Recipient: Sarah "Niki" Justice  
Faculty Sponsor: Dr. Sean O'Connell

### Independent Research

*The Sequencing of Song Sparrow DRD4 Gene  
to Further the Understanding of the Genetics of  
Aggression*

Student Recipient: Haley Pace  
Faculty Sponsor: Dr. Ron Michaelis

### Independent Research

*Testing the Rationale of Candida Cleanse Diets*

Student Recipients: Julie Rodeck, C. Brian Hass  
Faculty Sponsor: Dr. Greg Adkison

### Independent Research

*The Identification of Several Strains of the  
Basidiomycetous Yeast, Cryptococcus,  
Using Physiological and Molecular Methods of  
Identification*

Student Recipient: Kathy Turnbull  
Faculty Sponsor: Dr. Indrani Bose

### Independent Research

*The Sequencing of Song Sparrow DRD4 Gene  
to Further the Understanding of the Genetics of  
Aggression (part 2)*

Student Recipient: Haley Pace  
Faculty Sponsor: Dr. Ron Michaelis

### Independent Research

*An Analysis of the Character Trait Boldness in  
Melospiza melodia (Song Sparrows) and How  
This Trait is Influenced by Human-Bird  
Interactions*

Student Recipients: Kate Beavers & Kelsey Stover  
Faculty Sponsor: Dr. Jeremy Hyman

## Chemistry & Physics

### Independent Research

*Synthesis and Characterization of Silver-Teflon Nanocomposite Systems for Application in Raman Spectroscopy*

Student Recipient: Kristin K. Cooke  
Faculty Sponsor: Dr. David Evanoff, Jr.

### Independent Research

*Size Dependant Synthesis an Extinction Spectrosocopy of Silver Nanoshells*

Student Recipient: James P. Cook  
Faculty Sponsor: Dr. David Evanoff, Jr.

### Independent Research

*Adsorption of Copper (II) Ions to Alumina*

Student Recipient: Sarah Elizabeth Smithey  
Faculty Sponsor: Dr. Carmen Huffman

### Independent Research

*Synthesis and Characterization of Melanoma Cancer Cell-targeted Peptide Ligands for the Development of a Cell-binding Assay Protocol*

Student Recipient: Tess Branon  
Faculty Sponsor: Dr. Channa De Silva

### Independent Research

*DNA-binding Protein Identification of Lacl and Surrounding Proteins by Use of REPSA*

Student Recipient: Kirsten Collins  
Faculty Sponsor: Dr. Michael Van Dyke

## Chemistry & Physics - Forensic Science Program

### Independent Research

*A Non-invasive Method for Measuring Biodiversity for Natural Resource Management*

Student Recipient: Caleb Beck  
Faculty Sponsor: Dr. Patricia Foley

## Construction Management

### Associated Builders and Contractors, San Antonio, TX

*Existing School Buildings: Demolition or Renovation?*

Student Recipients: Matt Smith, Steven Nesbitt, Ben Arant & Lyndsey Gentry  
Faculty Sponsor: Mr. Robert Ford

## Criminology and Criminal Justice

### American Society of Criminology Conference, Raleigh, NC

*Latin American children: Stress and Gang Membership*

Student Recipient: Irene Diaz-Clark  
Faculty Sponsor: Dr. Steven Brown

### American Society of Criminology Conference, Raleigh, NC

*An Overview of Juvenile Justice Diversion Programs in North Carolina*

Student Recipient: Samantha Brothers  
Faculty Sponsor: Dr. Cyndy Caravelis-Hughes

### American Society of Criminology Conference, Raleigh, NC

*Risks and Protective Factors in Self-reported Alcohol Use Among College Students*

Student Recipient: Christina Foster  
Faculty Sponsor: Dr. Cyndy Caravelis-Hughes

### American Society of Criminology Conference, Raleigh, NC

*Mauling Pit Bull Owners: Moral Panic Over Minority Breeders*

Student Recipient: Maurice Lee  
Faculty Sponsor: Dr. Albert Kopak

### American Society of Criminology Conference, Raleigh, NC

*A New Method of Using the Scapula to Metrically Sex a Skeleton: Is This Method Repliable?*

Student Recipient: Destiny Green  
Faculty Sponsor: Dr. Jamie Vaske

## Engineering and Technology

### **Green Air Engine Project**

*Design and Manufacture of a Pneumatic/  
Steam Engine*

Student Recipients: Joe Granby, Tyler Meachum, Theo Waltz

Faculty Sponsor: Dr. Aaron Ball

## Geosciences & Natural Resources

### **Geological Society of America Annual Meeting & Exposition, Minneapolis, MN**

*Paleoenvironmental Record at Panthertown Bog (NC), An Early Holocene Peat-Accumulating Wetland in the Southern Appalachians*

Student Recipient: Elizabeth W. Moser

Faculty Sponsor: Dr. Benjamin Tanner

### **Independent Research**

*A Biomarker Analysis of Panthertown Bog Deposits*

Student Recipient: Jessica Parris

Faculty Sponsor: Dr. Benjamin Tanner

### **Independent Research in Tennessee**

*Measurement of Oxygen and Hydrogen Isotopes to Determine Groundwater Flow Paths in a Headwaters Stream System in The Southern Appalachian Mountains, Cullowhee, North Carolina*

Student Recipient: Chad Hiatt

Faculty Sponsors: Drs. Benjamin Tanner & David Kinner

### **Presenters at the Southeastern Geological Society of America meeting, April 2012**

*Students Conducting Investigation at UNC-A Scanning Electron Microprobe Lab in March 2012*

Student Recipient: Alanna Weir

Faculty Sponsor: Dr. Cheryl Waters-Tormey

## Mathematics and Computer Science

### **Big South Undergraduate Research Symposium, Rock Hill, SC**

*Plastic Soup: The First Steps to Cleaning Up Our Oceans*

Student Recipient: Jessica Hurlbutt

Faculty Sponsor: Dr. Erin McNelis

### **Host SMURCHOM VI Math 362 & Math 400, Cullowhee, NC**

*Smoky Mountain Undergraduate Research Conference on the History of Mathematics VI*

Student Recipients: Kasey Jones & Adam Schrum

Faculty Sponsor: Dr. Sloan Despeaux

### **North Carolina Council of Teachers of Mathematics Annual Conference**

*Greensboro, NC*

Student Recipients: Caitlin Yencha and others

Faculty Sponsor: Dr. Kate Best

### **Present at MAA/AMS Joint Mathematics Meeting, Boston, MA**

*Independence Polynomials of Regular Caterpillars*

Student Recipient: Greg Ferrin

Faculty Sponsor: Dr. Risto Atanasov

## Music

### **National Association of Teachers of Singing, College Park, MD**

*Mid-Atlantic Regional Student Competition*

Student Recipients: Brian Gay, Charity Ruth Haskins, Amanda Kouri, Corinne Minor, Anastasia Teel, & Casey Weems

Faculty Sponsor: Dr. William Martin

### **SEHW Southeast Horn Workshop, Cookeville, TN**

*Southeast Horn Workshop*

Student Recipients: Justin Beebe, Jeff Bowman, Tommy Chekelelee, Ashley Funderburk, Whitney Stewart, Drew Langston, Matt McChargue, Amy Shuford, Avery Surratt

Faculty Sponsor: Dr. Travis Bennett

## Parks and Recreation

### **Parks and Recreation Display in Reid Building**

*Petzoldt Interpretive Board*

Student Recipient: Lindsey Bonsall

Faculty Sponsor: Dr. Maurice Phipps

## Philosophy and Religion

### **CARE Conference and International Women's Day Celebration 2012, Washington, DC**

*Congressional Meetings*

Student Recipients: Colin Cunningham, Cassie Ebert, Kendall Hill, Tyler Mode & Andrew Spencer

Faculty Sponsor: Dr. John Whitmire

## Political Science and Public Affairs

### **PSC 150 Class Trip to Cherokee**

Student Recipients: PSC 150 class

Faculty Sponsor: Dr. Cecil Livingston

## Psychology

### **American Psychological and Law Society, San Juan, PR**

*Perceived Effectiveness of the NC Sex Offender Registry*

Student Recipients: Christina Foster, Melisa Glatte

Faculty Sponsor: Dr. I. Alvin Malesky, Jr.

### **Rock Mountain Psychological Association, Reno, NV**

*The Random Affect Misattribution Procedure Allows Simultaneous Explicit and Implicit Measures.*

Student Recipients: Ashley Shermery & Noelle McConell

Faculty Sponsor: Dr. Winford Gordon

### **Rock Mountain Psychological Association, Reno, NV**

*Measuring Attention Recovery in Real Time Across Various Environments*

Student Recipients: Ashley Shermery & Noelle McConell

Faculty Sponsor: Dr. Winford Gordon

### **Rock Mountain Psychological Association, Reno, NV**

*Measuring Attention with Reversible Figures*

Student Recipient: Matthew Halliday

Faculty Sponsor: Dr. Winford Gordon

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Removal Trends for Offenders on the NC Sex Offender Registry*

Student Recipient: Grace Love

Faculty Sponsor: Dr. I. Alvin Malesky, Jr

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Perceptions of Characteristics of Individuals Following Different Sexual Behaviors*

Student Recipient: Cat Toledo

Faculty Sponsor: Dr. Erin Myers

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Is Perceived Vulnerability to Disease Related to Pet Attachment and Attitudes Toward the Use of Animals?*

Student Recipient: Colin Wiseman

Faculty Sponsor: Dr. Hal Herzog

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Hair Color as a Determinant of Attractiveness: Testing Evolutionary Hypotheses*

Student Recipient: Joseph Melnyk

Faculty Sponsor: Dr. David McCord

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Perceived Effectiveness of the NC Sex Offender Registry*

Student Recipients: Christina Foster & Melisa Glatte

Faculty Sponsor: Dr. I. Alvin Malesky, Jr.

### **Southeastern Psychological Association (SEPA) Conference, New Orleans, LA**

*Sucking the Humor out of the Joke: Using Identification with a Joke Target as a Way to Increase Offensiveness Ratings*

Student Recipient: Whitney Petit

Faculty Sponsor: Dr. Tom Ford

## School of Health Sciences

### **Presentation to 2011 NC Mosquito and Vector Control Association Annual Conference, Greenville, NC**

*Vertical Distribution of Container Inhabiting Aedes in a La Crosse Virus Endemic Area*

Student Recipient: Hope Mason

Faculty Sponsor: Dr. Brian Byrd

### **Presentation to 2011 NC Mosquito and Vector Control Association Annual Conference, Greenville, NC**

*Progress on the Key to the Mid-Atlantic Mosquitoes*

Student Recipients: Hope Mason, Charles Sither, Erin Gymburch

Faculty Sponsor: Dr. Brian Byrd

### **Presentation to 2011 NC Mosquito and Vector Control Association Annual Conference, Greenville, NC**

*Molecular Identification of Aedes bahamensis"*

Student Recipients: Hope Mason, Charles Sither, Erin Gymburch

Faculty Sponsor: Dr. Brian Byrd

## School of Health Sciences - Athletic Training Education Program

### **Presentation at SEATA, Atlanta, GA**

*Insidious Onset Foot Pain in a Recreational Distance Runner*

Student Recipient: Kyra Dodson

Faculty Sponsor: Ms. Jill Manners

### **Presentation at SEATA, Atlanta, GA**

*Insidious Onset Elbow Injury in a Collegiate Women's Basketball Player*

Student Recipient: Aaron Marshall

Faculty Sponsor: Ms. Jill Manners

### **Presentation at SEATA, Atlanta, GA**

*Traumatic Finger Injury in a Collegiate Football Player*

Student Recipient: Heather Brown

Faculty Sponsor: Ms. Jill Manners

### **Presentation at SEATA, Atlanta, GA**

*Insidious Onset Chest Pain in an Athletic Training Student*

Student Recipient: G. Gritton Harper

Faculty Sponsor: Ms. Jill Manners

### **Presentation at SEATA, Atlanta, GA**

*Traumatic Shoulder Injury in a Collegiate Football Player*

Student Recipient: Alessa Lennon

Faculty Sponsor: Ms. Jill Manners

### **Presentation at SEATA, Atlanta, GA**

*Tight Hip Labral Tear in a 22 Year-Old Collegiate Male*

Student Recipient: Ruby Floyd

Faculty Sponsor: Ms. Jill Manners

## School of Health Sciences - Environmental Health Program

### **Independent Research**

*Evaluation of Radon in Well Water in Jackson County, North Carolina*

Student Recipients: Alex Cassell & Cody Dunlap

Faculty Sponsor: Dr. Tracy Zontek

### **Independent Research**

*Analysis of Unwashed Fruit for Fecal Coliform Contamination*

Student Recipient: Kristian Belk

Faculty Sponsor: Dr. Burton Ogle

### **2012 NCRTA Student & Professional Issues Forum, Winston-Salem, NC**

*Weight Training Therapy*

Student Recipient: Robert Fox

Faculty Sponsor: Dr. Jennifer Hinton

### **2012 NCRTA Student & Professional Issues Forum, Winston-Salem, NC**

*Assertiveness Training*

Student Recipient: Mary Benson

Faculty Sponsor: Dr. Jennifer Hinton

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**2012 NCRTA Student & Professional Issues  
Forum, Winston-Salem, NC**  
*Nature-Assisted Therapy*  
Student Recipient: Melissa Conarroe  
Faculty Sponsor: Dr. Jennifer Hinton

School of Health Sciences -  
Recreational Therapy Program

**2012 NCRTA Student & Professional Issues  
Forum, Winston-Salem, NC**  
*Adaptive Fishing*  
Student Recipient: Meagan Hunt  
Faculty Sponsor: Dr. Jennifer Hinton

**2012 NCRTA Student & Professional Issues  
Forum, Winston-Salem, NC**  
*Massage Therapy*  
Student Recipient: Marie Rawlings  
Faculty Sponsor: Dr. Jennifer Hinton

**2012 NCRTA Student & Professional Issues  
Forum, Winston-Salem, NC**  
*Horticulture Therapy*  
Student Recipient: Courtney Stroup  
Faculty Sponsor: Dr. Jennifer Hinton

**2012 NCRTA Student & Professional Issues  
Forum, Winston-Salem, NC**  
*Aquatic Therapy*  
Student Recipient: Courtney Thomas  
Faculty Sponsor: Dr. Jennifer Hinton

**Clinical Symposium and Business Meeting,  
Wrightsville Beach, NC**  
*Examination of the Efficacy of Various Airway  
Adjunct Devices when Applied by Certified  
Athletic Trainers to Patients With and Without  
a Facemask*  
Student Recipients: Brandi Anders, Frank Baker, Alessa  
Lennon, Bridgette Light  
Faculty Sponsor: Dr. Ashley Long



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# **HONORS COLLEGE INTERNATIONAL STUDY GRANTS**

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

Study Abroad Spain

*Student: Kellie Hayes*

Study Abroad Ireland

*Student: Mariah Hornby*

Study Abroad Spain

*Student: Brandi Bridges*

Study Abroad Finland

*Student: Laura Weir*

Study Abroad Ghana

*Student: Nicole Levi*

Study Abroad ILYC-Spain

*Student: Emily Melrose*

Study Abroad Spain

*Student: Ellison Henry*

Study Abroad Scotland

*Student: Alex Nicole Wooten*

Study Abroad France

*Student: Marissa Duncan*

Study Abroad Spain

*Student: Rebekka Blenkitni*

Study Abroad England

*Student: James Ruff*

Study Abroad Ireland

*Student: Tyler Meachum*

Study Abroad Netherlands

*Student: Jannidy Gonzalez Alanis*

Study Abroad India & Botswana

*Student: Sarah Elizabeth Sheehan*

Study Abroad Spain

*Student: Katelyn Watson*

# THE HONORS COLLEGE

Ad vitam paramus

**WESTERN CAROLINA UNIVERSITY**

HC 101 Balsam Hall  
Cullowhee, NC 28723  
828-227-7383

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



## THE RODIN

### RECOGNITION OF DISTINCTION IN INSTRUCTION AND NURTURING 2012

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.

This year, we have decided to single out Honors Contracts. With over 900 Honors Contracts each term, they are incredibly important to Honors students and often lead to deeper research or creative work. Since nearly all WCU faculty members selflessly dedicate their time and work to contracts, it was very difficult to single out four recipients.

### **THE HONORS COLLEGE BOARD AND HONORS STAFF CONGRATULATE**

### **THE RECIPIENTS OF THE 2012 RODIN AWARD:**

- Pamela Duncan ..... English Department
- Karyn Tomczak ..... School of Stage and Screen
- Blair Tormey ..... Geosciences and Natural Resources Department
- Michelle Scifers ..... School of Health Sciences