THE FOURTEENTH ANNUAL

UNDERGRADUATE EXPO '12
MARCH 26-27 / 2012

WESTERN CAROLINA UNIVERSITY
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.

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!
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

*Reactions of Superoxide Dismutase with Polyphenols*
Benjamin Hickman, Kyle Fulle, presenters
Jack Summers, sponsor

Business/Finance/Accounting
*Attendance Verification System*
Arthur McIntyre, presenter
Bethany Davidson, sponsor

Criminology
*Blood and Authority in the Barrio: Mara Salvatrucha*
Crystal Owen, presenter
Jamie Davis, sponsor

Cell & Molecular Biology
*Molecular Identification of the exotic mosquito Aedes bahamensis (Diptera: Culicidae)*
Erin Gymburch, presenter
Brian Byrd, 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

Chemistry
*Development of Luminescence Lanthanide β-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

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 Scineces & 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: Eluciating 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
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 β-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
Chemistry & Physics (continued)

Comparison of Fingerprint Development Methods Using Different Substrates
Student Presenter: NaKristin Greene
Faculty Sponsor: Brittania 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: Raphael 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

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
### COLLEGE OF BUSINESS

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

- **Music as a Public Good**  
  Student Presenter: Briton Bennett  
  Faculty Sponsor: Stephen Miller

- **ARAMARK Internship**  
  Student Presenter: Asa Joel Boyd  
  Faculty Sponsor: Lorrie Willey

**Business Administration & Law and Sport Management**

- **The Necessity of Ethics in Mediation**  
  Student Presenter: Ernest Berry  
  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

### 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 Disabilities 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
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 Mompoint, 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

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 McNeillly
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

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
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: Cynthia Caravelis Hughes

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

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, Derrrik 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

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
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
MONDAY, MARCH 26, 2012
PRESENTATIONS
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: 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
**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

**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 Developing Country: Jamaica, West Indies*
Student Presenters: Matthew Campbell, Phillip Prince, Kari Mauck, Megan White
Faculty Sponsor: Victoria Faircloth
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
TUESDAY, MARCH 27, 2012

PRESENTATIONS

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, Candide, 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

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

**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: 12:35 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 107  
  - Emergency Operation Plans for a Small Community Based Hospital  
  - Student Presenter: Mikayla Deardorff*  
  - Faculty Sponsor: Buton Ogle

- Time: 12:45 PM  
  - Place: Moore 102  
  - Molecular Identification of Aedes bahamensis  
  - Student Presenter: Erin Gymburch*  
  - Faculty Sponsor: Brian Byrd

- Time: 1:00 PM  
  - Place: Moore 102  
  - Vertical Distribution of Aedes Mosquitoes on WCU’s Campus  
  - Student Presenter: Hope Mason  
  - Faculty Sponsor: Brian Byrd

- Time: 2:05 PM  
  - Place: Belk 412  
  - 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
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

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

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

Independent Research
DNA-binding Protein Identification of LacI 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 Replicable?
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
Student Recipient: Chad Hiatt
Faculty Sponsors: Drs. Benjamin Tanner & David Kinner

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
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

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

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

**Presentation at SEATA, Atlanta, GA**

**Insidious Onset Elbow Injury in a Collegiate Women’s Basketball Player**
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**Presentation at SEATA, Atlanta, GA**

**Molecular Identification of Aedes bahamensis”**
Student Recipients: Hope Mason, Charles Sither, Erin Gymburch
Faculty Sponsor: Dr. Brian Byrd
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
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 Spain
   Student: Brandi Bridges

Study Abroad Ghana
   Student: Nicole Levi

Study Abroad Spain
   Student: Ellison Henry

Study Abroad France
   Student: Marissa Duncan

Study Abroad England
   Student: James Ruff

Study Abroad Netherlands
   Student: Jannidy Gonzalez Alanis

Study Abroad Spain
   Student: Katelyn Watson

Study Abroad Ireland
   Student: Mariah Hornby

Study Abroad Finland
   Student: Laura Weir

Study Abroad ILYC-Spain
   Student: Emily Melrose

Study Abroad Scotland
   Student: Alex Nicole Wooten

Study Abroad Spain
   Student: Rebekka Blenkitni

Study Abroad Ireland
   Student: Tyler Meachum

Study Abroad India & Botswana
   Student: Sarah Elizabeth Sheehan
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