

The Eleventh Annual

Undergraduate Expo



March 23-26

2009

Undergraduate Expo 2009

Western Carolina University

March 23-26

Welcome

The eleventh Undergraduate Expo features 194 student presenters and 71 faculty sponsors, spread over 23 departments and four days. During this week, 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 out this week to attend a presentation, even one that is out of your discipline, to learn more about what is taught and learned at your university.*

The Expo Reception

The reception for students, faculty sponsors, and the community at large will begin at **5:30 p.m. on Wednesday, March 25, in the Grand Room at the University Center.** Certificates of appreciation will be distributed to student presenters and faculty or staff sponsors. A brief program will start at 6:00 p.m. in the Grand Room, where 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 Wednesday, March 25.

Press Releases for Student Presenters

WCU's Office of Public Relations routinely sends news releases about student activities and honors to hometown/local newspapers. Participants in the Undergraduate Expo who wish to take advantage of that service can visit the Web site <http://www.wcu.edu/22961.asp> to fill out an online biographical form and submit it via e-mail to the Public Relations Office.

The Public Relations Office also can send photographs of students to 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 8 a.m. and 5 p.m. on Thursday, April 23, or Wednesday, April 29.

National Conference on Undergraduate Research

Western Carolina University will send 41 students to the 2009 conference in La Crosse, Wisconsin. Please check the program on the next page for the complete list of NCUR23 abstracts accepted; this year, WCU tied for fifth in the nation in the number of accepted abstracts.

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!

National Conference on Undergraduate Research 2009

Presentations at the 23rd National Conference on Undergraduate Research will be held at University of Wisconsin La Crosse April 16-18, 2009. Below are the projects accepted, titles, student presenters, and their sponsors.

Architecture and Interior Design

Interior Redesign of Existing Buildings into Multi-Use Spaces as a Component of Small Downtown Revitalization

Margo Peck presenter
Jane Nichols sponsor

Biology

*The Effect of Web Location in a Host Plant on Web Population Size of the Social Theridiid *Anelosimus studiosus**

Jody Harkey presenter
Kefyn Catley sponsor

Estimating Bacterial Diversity in a Disturbed Forest

Jamie Tidmore presenter
Sean O'Connell sponsor

Business

The Darker Side of Fun

Amanda Bienhaus presenter
Lorrie Willey sponsor

Societal tattle tales: The business of public tips and law enforcement

Cassie Erwin presenter
Lorrie Willey sponsor

Chemistry

Authentication of Cremation Remains with Infrared Spectroscopy

Jessica Spear presenter
Scott Huffman sponsor

Ecology and Organismal Biology

An Examination of Oak Regeneration After a Prescribed Understory Burn in a Southern Appalachian Mesic Oak-Hickory Stand (Haywood County, North Carolina)

Mark Roloff presenter
Peter Bates sponsor

*Habitat Use of the Eastern Box Turtle (*Terrapene Carolina Carolina*) Within a Developing Landscape*

Emily Willard presenter
Peter Bates sponsor

Education

Chinese Digital Stories

Charles Miller presenter
Marylou Matoush sponsor

Electrical Engineering and Physics

Enormous Field Enhancement in Periodic Birefringent Media

Shawn Rigdon, Mitchell Pate presenters
Weiguo Yang, Mesfin Woldeyohannes . sponsors

Anomalous Spectral Phase and Effective Negative Index of Refraction

Kirill Sinchuk presenter
Weiguo Yang, Mesfin Woldeyohannes . sponsors

Engineering

An Inexpensive Bathing Assistive Device For Home Healthcare

Richard Domanski, Loc Wilkerson, Chris Rhodes, Josh Ellis presenters
Phillip Sanger sponsor

Vehicular Upright Sitting Assistance Device

Mark Little, T.J. Powers, Evan Burnette, Adam Cruthis presenters
Chip Ferguson sponsor

History

The Morality of a Smoking Ban

William Burton presenter
John Whitmire sponsor

An Immigrant Crisis: The Question Of Foreigners In The Civil War

Michael Frixen presenter
Richard Starnes sponsor

The Tune of War: An Analysis of Confederate Music

Leia Hays presenter
Richard Starnes sponsor

Archers and Artillery: Early Modern Military Evolutionism

Steven Johnson presenter
Laura Cruz sponsor

From Otzi's Ears, to Rebekah's Nose, to Your Kid's What?! The Progression of Body Piercing Through History

Cayli Meizel presenter
Jessica Jones sponsor

Conversion en Español: The Hellin Family and the Transition to Modernity in Early Modern Spain

Nathan Roberto presenter
Laura Cruz sponsor

Interdisciplinary Studies

Go Team...Go?: A Lack of School Spirit at Western Carolina University

Dominique Keaton presenter
Bart Andrus sponsor

International Studies

Machismo In American Politics And Foreign Relations

Emily Collman presenter
Russell Binkley sponsor

Law and Legal Studies

Does the Second Amendment of the U.S. Constitution Apply to the States?

Russell McLean IV presenter
Debra Burke, Malcolm Abel sponsors

Management

Re-examining the significance of stakeholder view of strategic management: the case of Harrah's Cherokee Casino and Hotel

Marsha Ensley presenter
Kyuhoo Lee sponsor

Mathematics

Quasigroups and Cryptographic Application

Michael Russell presenter
Risto Atanasov sponsor

Music

Implementing Community-Based Learning Opportunities in the Music Classroom

Rebecca Frank presenter
Michael Schallock sponsor

Evolution of the Clarinet: Antiquity through the Eighteenth Century

Nicholas Gattis presenter
Christina Reitz sponsor

“Serial Killers Existed Before Slayer,” but who can Argue with “Take the gun and try it”?: The Perpetual Debate over Heavy Metal and Violence

Cayli Meizel presenter
Jessica Jones sponsor

Philosophy and Ethics

Wicked Wenches: Overlooked Factors in Explaining Infanticide in Early Modern Europe

Byron Burnette presenter
Laura Cruz sponsor

Abraham Is Still Lost: A Critique of Fear and Trembling

Carrie Eidson presenter
John Whitmire sponsor

The Necessary Communal Virtues for the Greates Individual Human Flourishing

Andreas Horn presenter
John Whitmire sponsor

The Ease of Palliating “Dis-Ease:” An Argument for the Unobjectionable Morality of Physician-Assisted Suicide

Marie Rawlings presenter
John Whitmire sponsor

Philosophy and Ethics (continued)

The Experience Of Pure Existentialism: A Nishida Reading Of Sartre

Jared Utecht presenter
James McLachlan sponsor

Why Capital Punishment Should Be Retained

Lauren Williams presenter
John Whitmire sponsor

Utilitarianism is a Humanism: In Defense of Mill’s Utilitarian Philosophy

David Young presenter
Daryl Hale sponsor

Physical Therapy

Subscapular Bursitis in A Collegiate Athlete

Dan Brown presenter
James Scifers sponsor

Testicular Torsion in a High School Football Player

Brian Gill presenter
James Scifers sponsor

Transverse Process Fracture in a Collegiate Baseball Player

Andrea Kaufman presenter
Jill Manners, James Scifers sponsors

Blunt Trauma Resulting in Pancreatic Transection in a Collegiate Soccer Player

Emily Whittington, Kelly Robertson . presenters
James Scifers sponsor

Political Science

The Hidden Hazards of the Stafford Act

Tristan Artman presenter

Todd Collins sponsor

Power, Money, and Safety: Why States Pursue

Nuclear Weapons

Katy Elders presenter

Julie Loggins sponsor

Just How Accurate are Polls Anyway?

Matthew Neely presenter

Gibbs Knotts sponsor

The Peace Corp in Africa: Who gets a piece?

Ashley Runnion presenter

Gibbs Knotts, Betty Farmer sponsors

Voting Trends in the South

Logan Thomas presenter

Gibbs Knotts sponsor

Psychology

Motivations For Meat Consumption Among Ex-

Vegetarians

Morgan Childers presenter

Hal Herzog sponsor

Thinking About Death Changes Basic Moral Values

Jessica Howell presenter

Hal Herzog sponsor

Sociology

Assessing the Presence of the Women's Movement on a College Campus

Katheryn Ballard presenter

Peter Nieckarz sponsor

Psychiatric Hospitalization: The Effect of Stigma on Treatment Seeking Under the Recovery Model

Jennifer Stickle presenter

Kathleen Brennan sponsor

Theater

Tales of Trickery: A Visual Synthesis of the Cultural and Theatrical Traditions of Bali

Cara Ward presenter

Glenda Hensley sponsor

Undergraduate Expo 2009

Presentations will be held at Western Carolina University, March 23-26, according to college and department. Below are the project titles, presenters, sponsors, time, and place of presentation.

* ~ denotes a presentation also selected for NCUR23

Monday, March 23, 2009

College of Arts and Sciences

Anthropology and Sociology

Time: 10:10 a.m. **Place: McKee 110**

How the Jomon People Began Sculpting the History of Pottery

Student Presenter: Cayli Meizel

Faculty Sponsor: Jane Brown

Time: 11:00 a.m. **Place: Coulter 303**

Maternal Mortality Rates in Niger

Student Presenter: Katelyn Cooper

Faculty Sponsor: Bessie Goggins

AIDS in Kenya

Student Presenter: Tristan Hamby

Faculty Sponsor: Bessie Goggins

English

Time: 9:05 a.m. **Place: Coulter 301**

'Sign'ificance

Student Presenter: Maika Lee

Faculty Sponsor: Katherine Cipriano

Controlling Deer Populations

Student Presenter: Seth Stallard

Faculty Sponsor: Bessie Goggins

What Are the Signs?

Student Presenter: Annie Pauley

Faculty Sponsor: Katherine Cipriano

My Little China Girl

Student Presenter: Jessica Stewart

Faculty Sponsor: Bessie Goggins

The Advantage: Propaganda in Advertising

Student Presenter: Brandon Rupinski

Faculty Sponsor: Katherine Cipriano

Time: 12:20 p.m. **Place: Coulter 204**

Assimilation: From Boys to Men

Student Presenter: Casey Icenhour

Faculty Sponsor: Katherine Cipriano

Time: 10:00 a.m. **Place: Coulter 303**

Selected Works from Nomad

Student Presenter: Brendan Williamson

Faculty Sponsor: Deidre Elliot

Influence of Gender Roles

Student Presenter: Kari Mauck

Faculty Sponsor: Katherine Cipriano

Threadbare Beauties: Western's Women Poets Read from their Work

Student Presenters: Amanda Candler, Jordan

Brophy

Faculty Sponsor: Catherine Carter

Gender Roles in Society

Student Presenter: Kristin Vierela

Faculty Sponsor: Katherine Cipriano

History

Time: 2:30 p.m. **Place: McKee110**

Homer's Works: Parallels of Modern Combat

Student Presenter: Mark Braxton Rogers

Faculty Sponsor: Vicki Szabo

Impact of British Colonialism on Modern India

Student Presenter: Erin Pooser

Faculty Sponsor: H. Tyler Blethen

*Women's History Through the Eyes of Gertrude Dills
Mckee*

Student Presenter: Bobby Applewhite

Faculty Sponsor: Jessie Swigger

Time: 2:30 p.m. **Place: McKee 209**

*Conversio En Espanol **

Student Presenter: Nathan Roberto

Faculty Sponsor: Laura Cruz

Time: 3:30 p.m. **Place: McKee214**

Religious Clashes Between the English and the Tuscar

Student Presenter: James Beaver

Faculty Sponsor: Richard Starnes

*An Immigrant Crisis: Foreigners in the American
Civil War **

Student Presenter: Michael Frixen

Faculty Sponsor: Richard Starnes

*The Tune of Battle **

Student Presenter: Leia Hays

Faculty Sponsor: Richard Starnes

*Politics as Usual, A New Community, and Diluted
Slavery: Reconstruction in Royal Oak, Maryland,
1864-1870*

Student Presenter: Kevin Hughes

Faculty Sponsor: Richard Starnes

Time: 3:30 p.m. **Place: McKee 209**

*Psychopathic Women; New Phenomenon or Hidden
History?*

Student Presenter: Brandon Hill

Faculty Sponsor: Laura Cruz

*Archers and Artillery; Early Modern Evolutionism **

Student Presenter: Steve Johnson

Faculty Sponsor: Laura Cruz

*Run Simplicissimus Run: Interpreting and Looking at
the 17th Century Through the Eyes of a Simpleton*

Student Presenter: Matthew Lawlis

Faculty Sponsor: Laura Cruz

*On the Brink Of Bedlam: Psychological Philosophy in
the Late 17th Century*

Student Presenter: Eddie Lohmeyer

Faculty Sponsor: Laura Cruz

Time: 3:30 p.m. **Place: McKee 201**

Death with Honor: War Memorials in NC

Student Presenter: Emily Nantz

Faculty Sponsor: Laura Cruz

Mathematics & Computer Science

Time: 10:30 a.m. **Place: Stillwell 424**

Applications of Calculus

Student Presenter: Emily Nantz

Faculty Sponsor: Erin McNelis

Time: 3:30 p.m. **Place: Stillwell 434**

Artificial Intelligence in a Tilemap Environment

Student Presenter: Adam Staley

Faculty Sponsor: William Krehling

Philosophy and Religion

Time: 11:00 a.m.-3:00 p.m. **Place: Stillwell 225**

William Paley on Religion and Science

Student Presenter: Zach Phillips

Faculty Sponsor: Daryl L. Hale

Bonhooffer on The Commandment to Love

Student Presenter: Marshall Soloman

Faculty Sponsor: Daryl L. Hale

Natural Theology & Gods of the Gaps

Student Presenter: Ryan Stafford

Faculty Sponsor: Daryl L. Hale

Time: 2:30 p.m. **Place: McKee 220**

*The Ease of Palliating "Dis-Ease:" An Argument for the
Unobjectionable Morality of Physician-Assisted Suicide **

Student Presenter: Marie Rawlings

Faculty Sponsor: John Whitmire

College of Business

Business Administration and Law and Sport Management

Time: 11:15 a.m. **Place: Forsyth 115**

Corporate Governance of Einstein Bros. Bagels

Student Presenter: Julia Lewis

Faculty Sponsor: Jayne Zanglein

College of Fine and Performing Arts

Music

Time: 2:30 p.m.-3:30 p.m. **Place: Coulter 260**

*Evolution of the Clarinet: Antiquity Through Eighteenth Century **

Student Presenter: Nicholas Gattis

Faculty Sponsor: Christina Reitz

Anton Bruckner's Romantic Program

Student Presenter: Jameson Stout

Faculty Sponsor: Jason Solomon

Stage and Screen

Time: 3:30 p.m. **Place: Stillwell Niggli Theatre**

Theater in Education: for the Light in their Eyes

Student Presenter: Ami Pisano

Faculty Sponsor: Glenda Hensley

Time: 5:00 p.m. **Place: Breese 206**

Impetus: A Dance Work based on the concept of action and reaction

Student Presenter: Whitney Hinson, Lisa Dunn, Patience Owl, Ami Pisano

Faculty Sponsor: Amy Dowling

Tuesday, March 24, 2009

College of Arts and Sciences

English

Time: 8:30 a.m. **Place: Coulter 204**

Population and its Effect on Conflict

Student Presenter: Sara Wyatt

Faculty Sponsor: Eric Hendrix

Time: 12:35 p.m. **Place: Coulter 203**

*From Otzi's Ears, to Rebecca's Nose, to Your Kid's What?! The Progression of Body Piercing Through History **

Student Presenter: Cayli Meizel

Faculty Sponsor: Jessica Jones

Time: 3:35 p.m. **Place: Coulter 301**

*"Serial Killers Existed Before Slayer," But Who Can Argue With "Take the Gun and Try It?": The Perpetual Debate Over Heavy Metal and Violence **

Student Presenter: Cayli Meizel

Faculty Sponsor: Jessica Jones

History

Time: 12:35 p.m. **Place: McKee 209**

I'm Bound for Canaan Land: The History of Gospel Music

Student Presenter: Eric Shane Steward

Asia Moore, Devane Woodruff

Faculty Sponsor: Elizabeth McRae

Philosophy and Religion

Time: 11:00 a.m.- 3:00 p.m. **Place: Stillwell 225**

The Development of Satan in Judaism and Its Implications for the Judeo-Christian Tradition

Student Presenter: Carrie Eidson

Faculty Sponsor: James M. McLachlan

College of Business

Accounting, Finance, Information Systems, and Economics

Time: 8:00 a.m. **Place: Forsyth 116**

A Comparison of Mutual Funds and ETFs

Student Presenters: Sebastian Guillama, Andres Guillama

Faculty Sponsor: Grace Allen

Business Administration and Law and Sport Management

Time: 9:30 a.m. **Place: Forsyth 329**

Checks and Fund Transfers

Student Presenter: J. D. Large

Faculty Sponsor: Debra Burke

Time: 2:05 p.m. **Place: Forsyth 213**

*The Darker Side of Fun: Examining Amusement Ride Regulation (or Lack Thereof) **

Student Presenter: Amanda Bienhaus

Faculty Sponsor: Lorrie Willey

Poster Sessions

Wednesday, March 25

5:00 - 6:30 PM -- University Center Grand Room & Lobby

Students are invited to set up posters after 4:00 p.m.

College of Arts and Sciences

Biology

*The Effect of Web Location in a Host Plant on Web Population Size of the Social Theriid *Anelosimus studiosus* **

Student Presenter: Jody Harkey

Faculty Sponsor: Kefyn Catley

Chemistry and Physics

Boroxines are Predecessors for Molecular Boxes

Student Presenter: Stephanie L. Harper

Faculty Sponsor: William R. Kwochka

Theoretical Model of a Phase Transition in Lipid Bilayers

Student Presenter: Harrison Burke

Faculty Sponsor: Matthew Rave

Mathematics & Computer Science

Analysis of Force Controlled Arm Movement

Student Presenter: Shawn Rigdon

Faculty Sponsor: Jeffrey Lawson

Polynomials With All Real Zeros and Coefficients 1 or -1

Student Presenter: Craig DeFelice

Faculty Sponsor: Risto Atanasov

College of Business

Accounting, Finance, Information Systems, and Economics

Investing After College Graduation: What You Need to Know

Student Presenters: Scott Slechter, Ashton

Shockley

Faculty Sponsor: Grace Allen

Service Learning & A Financial Planning Case Study

Student Presenter: Sheilah Moyle

Faculty Sponsor: Grace Allen

Stock Analysis in the Software Industry

Student Presenters: Autumn Moore, Fnu Firdonsyah

Faculty Sponsor: Grace Allen

The Steps to Stock Analysis for the Beginning Investor

Student Presenters: Devon Lyda, Mark Evans, Trevor Lambert

Faculty Sponsor: Grace Allen

College of Business (continued)

Economic Development at WCU and the Surrounding Community

Student Presenters: Adam Richardson, Nick Fracassi

Faculty Sponsor: Steve Ha

Four-Lane Highway in Graham County

Student Presenter: Taylor Carringer

Faculty Sponsor: Steve Ha

Development of the Green Energy and Green Building Industries in WNC

Student Presenter: Mark Roloff

Faculty Sponsor: Steve Ha

The Ritz-Carlton Hotel in Uptown Charlotte

Student Presenter: Donald James

Faculty Sponsor: Steve Ha

Jackson County's Southern Loop

Student Presenters: Kathleen Graham, Claudia Molina, Nathan Brown

Faculty Sponsor: Steve Ha

College of Education and Allied Professions

Health, Physical Education, and Recreation

Preventative Physical Therapy

Student Presenter: Brandon VanHook

Faculty Sponsor: Maridy Troy

The Chemistry Behind Exercise

Student Presenter: Rebecca Carlson

Faculty Sponsor: Maridy Troy

Backpacking Energy Miles: Testing Petzoldt's Energy Mile Theory

Student Presenter: Hannah Goodson

Faculty Sponsor: Maridy Troy

Psychology

Determinants of Male Attractiveness: 'Hotness' or Wealth

Student Presenter: Gregory Shuler

Faculty Sponsor: David McCord

Effects of Humor on Math Performance and State Anxiety

Student Presenter: Brianna Ford

Faculty Sponsor: Tom Ford

College of Fine and Performing Arts

Interior Design

Arrecif' Restaurant/Club Design

Student Presenters: Trisha Edge, Leslie Huntley

Faculty Sponsor: Jane Nichols

Asid Skybox - Tectonic

Student Presenter: Kimberley Garren

Faculty Sponsor: Jane Nichols

Black Hole Productions

Student Presenter: Roberta Ann Buckner

Faculty Sponsor: Jane Nichols

Comics' Restaurant Design

Student Presenter: Amber Baxley

Faculty Sponsor: Jane Nichols

DC Comics

Student Presenter: Amber Baxley

Faculty Sponsor: Jane Nichols

Eco-Night Club

Student Presenter: Margo Peck

Faculty Sponsor: Jane Nichols

College of Fine and Performing Arts (continued)

Interior Design (continued)

Fire and Water

Student Presenter: Kimberly Jarrett

Faculty Sponsor: Jane Nichols

Skybox Design

Student Presenter: Cheremnykh Natasha

Faculty Sponsor: Jane Nichols

Green Restaurant Design

Student Presenter: Cheremnykh Natasha

Faculty Sponsor: Jane Nichols

Skybox Design - Base Burnt Records

Student Presenter: Nicholas Savell

Faculty Sponsor: Jane Nichols

H2O

Student Presenter: Charlene McAllister-Pell

Faculty Sponsor: Jane Nichols

So Fresh Records' Skybox Design

Student Presenter: Olivia Banks

Faculty Sponsor: Jane Nichols

Mannequin Manor (Residential Design)

Student Presenter: Amber Baxley

Faculty Sponsor: Candace Roberts

Soul Session Records Luxury Sky Box Design

Student Presenter: Heather Provenzano

Faculty Sponsor: Jane Nichols

Residential Design II Senior Project

Student Presenter: DeAnna Shepherd

Faculty Sponsor: Candace Roberts

The Water Mark

Student Presenter: Rosalind Leos

Faculty Sponsor: Jane Nichols

Residential Design Project - XO Productions

Student Presenter: Heather Krause

Faculty Sponsor: Jane Nichols

Urban Grotto

Student Presenter: Jessica Godfrey

Faculty Sponsor: Jane Nichols

Roots' Jazz Club - Restaurant Design

Student Presenter: Natalie Miller

Faculty Sponsor: Jane Nichols

Stage and Screen

Costume Design for Plaza Suite

Student Presenter: Leeanne Deaver

Faculty Sponsor: Glenda Hensley

Sake-Tu-Mi; Sushi Bar

Student Presenter: Jana Rohe

Faculty Sponsor: Jane Nichols

*Tales of Trickery: A Visual Synthesis of the Cultural and Theatrical Traditions of Bali **

Student Presenter: Cara Ward

Faculty Sponsor: Glenda Hensley

Shyouz

Student Presenter: Margo Peck

Faculty Sponsor: Jane Nichols

College of Health and Human Sciences

Emergency Medical Care

Smallpox Eradication: The Defeat of the World's Most Notorious Killer

Student Presenter: Casey Ivey
Faculty Sponsor: David Trigg

Environmental Health

Evaluating the Noise Exposure of Employees at the WCU Steam Plant

Student Presenter: Chris Ray
Faculty Sponsor: Burt Ogle/Tracy Zontek

Health Sciences

A Case of Sturge Weber Syndrome in a Division 2 Cross-country Runner

Student Presenter: Ashleigh Wilkes
Faculty Sponsor: Ashley Long

Extent of Body Image Distortion in Healthy Weight College Students

Student Presenter: Cara Perdue
Faculty Sponsor: Wayne Billon

Safety Hazards of Cabinet Shop Workers

Student Presenter: Laura Litchfield
Faculty Sponsor: Tracy Zontek

The Affects of Lead Placement on Electrocardiogram Tracings of the Heart

Student Presenters: William Bishop, Andrew Girton, Nimon Badgley
Faculty Sponsor: Marianne Hollis

Unique Finger Injury in a Collegiate Baseball Player

Student Presenter: Casey Shirey
Faculty Sponsor: Ashley Long

Health Sciences/Athletic Training

*Blunt Force Trauma in a Male Soccer Player Causing Pancreatic Transection **

Student Presenter: Emily Whittington
Faculty Sponsor: James Scifers

Chronic Tibial Pain in a Collegiate Football Player

Student Presenter: Brandon Johnson
Faculty Sponsor: James Scifers

Foot Fracture in a High School Teacher

Student Presenter: T.J. Moore
Faculty Sponsor: James Scifers

Insidious Onset Groin Pain in a High School Football Player

Student Presenter: Brian Gill
Faculty Sponsor: James Scifers

Insidious Patella Fracture in a Collegiate Football Player

Student Presenter: Jacqueline Kennedy
Faculty Sponsor: James Scifers

*Transverse Process Fracture In A Collegiate Male Baseball Player **

Student Presenter: Andrea Kaufman, Nicole Davis
Faculty Sponsor: Jill Manners

*Subscapular Bursitis in a Collegiate Athlete **

Student Presenter: Dan Brown
Faculty Sponsor: James Scifers

Nursing

Cultural Differences: Pregnancy and Childbirth

Student Presenter: Amanda Armstrong
Faculty Sponsor: Susan Mitchell

Defining Characteristics of Neonatal Intensive Care

Student Presenter: Jennifer Pickler
Faculty Sponsor: Steven Forst

College of Health and Human Sciences (continued)

Nutrition and Dietetics

Fruit and Vegetable Consumption and Exercise Patterns of College Students

Student Presenter: Dahlia El-Matary

Faculty Sponsor: April Tallant

Nutrition Health among Vegetarian and Non-Vegetarian College Students

Student Presenter: Jessica Leah Nicholson

Faculty Sponsor: Susan Bogardus

Perceptions on Changes in Eating Patterns Among College Students

Student Presenter: Olivia Collins

Faculty Sponsor: April Tallant

Rural and Urban Background on College Eating Habits

Student Presenter: Melissa Calhoun

Faculty Sponsor: Sally Feltner

The Effect Urban and Rural Environments have on the Body Image of Young Adults

Student Presenter: Kenneth Walla

Faculty Sponsor: Wayne Billon

The Impact of Parental Influence on Childhood Dietary Behaviors in Comparison to Current Dietary Habits of College Students

Student Presenter: Jenifer M. Schwager

Faculty Sponsor: Wayne Billon

Vegetarianism and the Semi-Vegetarian: Transitioning From Strict Definition to Socially Viable Tool for Interpersonal Communications

Student Presenter: Jessica McGee

Faculty Sponsor: Wayne Billon

WCU Cat Walk

Student Presenter: Christian Curtis Collins

Faculty Sponsor: Baldwin Sanders

Kimmel School of Construction Management and Technology

Engineering and Technology

Assistive Typing Device for Stroke Patient

Student Presenters: Rich Domanski, Josh Ellis,

Chris Rhoades, Locke Williamson

Faculty Sponsor: Phil Sanger

*Enormous Field Enhancement in Periodic Birefringent Media **

Student Presenters: Mitchell Pate, Shawn Rigdon

Faculty Sponsor: Weiguo Yang

Head Restraint System

Student Presenters: William Krukedall, Eric

Proctor, Brian Burks

Faculty Sponsor: Phil Sanger

Improved Goniometer

Student Presenters: Daniel Perry, William Jones,

Jason Proffitt, Daniel Joseph

Faculty Sponsor: Chip Ferguson

Quality Testing - Carbon Fiber Antennae

Student Presenter: Jason Proffitt

Faculty Sponsor: Wes Stone

*Vehicular Upright Sitting Assistance Device**

Student Presenters: Mark Little, TJ Powers,

Adam Cruthis, Evan Burnette

Faculty Sponsor: Chip Ferguson

Walker to Crutches Transition Device

Student Presenters: Luke Parker, Kyle

Giannatasio, Joseph Henderson, Jeremy Taylor

Faculty Sponsor: Phil Sanger

Wednesday, March 25, 2009

College of Arts and Sciences

English

Time: 1:30 p.m. - 3:30 p.m. Place: Hunter Library Circulation Desk

"Choose Your America" - American Literature Non-Violent Tradition (format: Display Cabinets)

Student Presenters: Jamie Hicks, Amber Jones, Kati Pullium, Samantha Montrose

Faculty Sponsor: Marsha Lee Baker

College of Business

Accounting, Finance, Information Systems, and Economics

Time: 8:00 a.m. Place: Forsyth 301

An Analysis of Subprime Lending and Today's Housing Market

Student Presenter: Hayden Smith

Faculty Sponsor: J. Michael Arnott

College of Education and Allied Professions

Health, Physical Education, and Recreation

Time: 10:00 a.m. Place: Reid 122H

Resumé Research

Student Presenter: Shane Baker

Faculty Sponsor: Ben Tholkes

Sports Equity

Student Presenters: Kristen Bullock, Leigh Ann Fox, Brett Pickle, Patrick Neal, Andrew Pierce

Faculty Sponsor: Ben Tholkes

Crowding in Recreation

Student Presenters: H.B. "Trey" Kelly, Kelly Zehrunig, Beau Blackwelder

Faculty Sponsor: Ben Tholkes

Pantherstown

Student Presenters: Ashley Merrill, Mary Kate Olson, Kimberly Breedlove, Matthew Mason

Faculty Sponsor: Ben Tholkes

Creek Line Productions

Student Presenters: Bryan Mangum, Josh Heritage

Faculty Sponsor: Debby Singleton

Outside the Box

Student Presenters: Zoe Rolly, Shane Baker, Ashley Merrill

Faculty Sponsor: Debby Singleton

Dynamix

Student Presenter: Zoe Rolly

Faculty Sponsor: Maurice Phipps

Time: 5:00 p.m. Place: Reid 132

Seven Ways College Students Can Go Green

Student Presenter: Katherine Scott

Faculty Sponsor: Bill Papin

Thursday, March 26, 2009

College of Health and Human Sciences

Environmental Health

Time: 1:25 p.m. Place: Moore 107
Stream Quality: Evaluation of the Effects of Livestock Events on Stream Quality and the Tuckaseegee River
Student Presenter: Clint McGinty
Faculty Sponsor: Tracy Zontek

Time: 1:35 p.m. Place: Moore 107
Gross Anatomy Lab Formalin Concentration Evaluation
Student Presenter: Clint McGinty
Faculty Sponsor: Tracy Zontek

Time: 1:40 p.m. Place: Moore 107
Pre-Developmental Evaluation of Water Quality for Mine Creek, NC
Student Presenters: Bill Wiseman, Preston Jacobsen
Faculty Sponsor: Tracy Zontek, David Kinner

Time: 2:10 p.m. Place: Moore 107
Determining the Effectiveness of New Smoking Policy at WCU
Student Presenters: Annaleise Lysen, Jessica Stevenson
Faculty Sponsor: Burt Ogle, Tracy Zontek

Health Sciences

Time: 12:40 p.m.- 12:55 p.m. Place: Moore 107
Container-Inhabiting Aedes Mosquitoes: WCU Campus (Work in Progress)
Student Presenter: Alan Goggins
Faculty Sponsor: Brian Byrd

Time: 12:55 p.m.- 1:10 p.m. Place: Moore 107
Characters to Identify Damaged Container-Breeding Aedes Mosquitos in La Cross Virus Endemic Areas (Work in Progress)
Student Presenter: Mike Singleton
Faculty Sponsor: Brian Byrd

Time: 1:10 p.m.- 1:25 p.m. Place: Moore 107
Characterization of the rDNA Second Internal Transcribed Spacer of North American Wyeomyie mosquitos (Work in Progress)
Student Presenters: Bill Wiseman, Mike Singleton, Alan Goggins
Faculty Sponsor: Brian Byrd

**Kimmel School of
Construction Management and
Technology**

Engineering and Technology
Time: 3:00 p.m. Place: Belk 104
Analog Module for Duotech's Telemetry Device
Student Presenter: Joshua Schwartz
Faculty Sponsor: Brian Howell

Time: 3:30 p.m. Place: Belk 104
Active Noise Cancellation within Incubators
Student Presenter: Matthew Proffitt
Faculty Sponsor: Robert Adams

**College of Education and
Allied Professions**

Psychology
Time: 2:05 p.m.- 2:20 p.m. Place: Killian 111
College Attendance as a Mating Strategy
Student Presenter: Christopher J. Holden
Faculty Sponsor: David McCord

*Motivations for Meat Consumption Among Ex-Vegetarians **
Student Presenter: Morgan Childers
Faculty Sponsor: Harold Herzog

Undergraduate Academic Project Grants

Awarded 2008-2009

Initiated by Chancellor John Bardo in 1996, the Undergraduate Academic Projects Grant Program funds a variety of student projects.

Members of the UAPGP Committee are

Debra Burke (Business)

Marie Cochran (Fine and Performing Arts)

Hal Herzog (Education and Allied Professions)

Kathy Matthews (Arts and Sciences)

Brian Railsback (Honors)

Ron Rash (Arts and Sciences)

John Schweikart (International Programs)

James Zhang (Engineering and Technology)

Tracy Zontek (Health and Human Sciences)

The committee awarded over \$10,500 this year.

Arts and Sciences

WCU in Washington Program

Student Recipient: Brad Semma

Faculty Sponsor: Niall Michelsen

WCU in Washington Program

Student Recipient: David Young

Faculty Sponsor: Niall Michelsen

WCU in Washington Program

Student Recipient: Brittani Davis

Faculty Sponsor: Niall Michelsen

Business Administration and Law and Sport Management

*Societal Tattle Tales: The Business of Public Tips,
Hotlines and Law Enforcement*

Student Recipient: Cassie Erwin

Faculty Sponsor: Lorrie Willey

Center for Service Learning

*WCU's 2008 Alternative Spring Break in Chi-
cago: Life-Changing Experiences from Service-
Learning Sites*

Student Recipients: Bessie and Alan Goggins

Faculty Sponsor: Katherine Graunke

Invisible Children Campaign

Student Recipient: Ellen Rowe

Faculty Sponsor: Katherine Graunke

Alphabet Programming

Student Recipient: Casey Lowe

Faculty Sponsor: Katherine Graunke

Chemistry and Physics

Preparation of a Molecular Box

Student Recipient: Stephanie Harper

Faculty Sponsor: William Kwochka

Categorization Technique Development

Student Recipient: Jessica Spear

Faculty Sponsor: Scott Huffman

*Self-Assembled Monolayers as Foundation for Chemical
Sensors*

Student Recipient: Tyler David Jones

Faculty Sponsor: Scott Huffman

*Dependence of Plasmon-induced Local Electromagnetic
Field Extension on Silver Nanoparticle Size and
Dielectric Environment*

Student Recipient: Jacklyn C. Bush

Faculty Sponsor: David Evanoff, jr

Department of Geosciences and Natural Resources Conservation and Management

*Understanding Canopy Characteristics for Mapping
Deciduous Forest Land in Jackson County, North
Carolina*

Student Recipient: Staci Mellon
Faculty Sponsor: Joni Bugden-Storie

Environmental Health Sciences

*Species Composition and Relative Population Abun-
dance of Container-inhabiting Aedes Mosquitoes in
Jackson County, North Carolina*

Student Recipient: James Alan Goggins
Faculty Sponsor: Brian D. Byrd

Health Sciences

Region VI PDC, Myrtle Beach, presentation posters

Student Recipients: Laura Litchfield, Carla
Catalan, Mark Salsbuty, Christopher Ray
Faculty Sponsor: Tracy Zontek

Water Sampling at Mine Creek

Student Recipients: William Wiseman, Preston
Jacobsen
Faculty Sponsors: Tracy Zontek, David Kinner

History

Roman Britain's Material Culture

Student Recipient: Kasey Wilson
Faculty Sponsor: Richard Starnes

Math and Computer Science

*Outstanding Education Student Award for the
Western Region*

Student Recipient: Kerri Bernhardt
Faculty Sponsor: Ralph Willis

Nutrition and Dietetics

*The Effect Urban and Rural Environments have on
the Body Image of Young Adults*

Student Recipient: Kenneth P. Walla
Faculty Sponsor: Wayne Billon

*Fruit and Vegetable Consumption and Exercise
Patterns of College Students*

Student Recipient: Dahila El-Matary
Faculty Sponsor: Wayne Billon

*Perceptions of Changes in Eating Patterns Among
College Students*

Student Recipient: Olivia Collins
Faculty Sponsor: Wayne Billon

*Semi-vegetarians: Bridging the Knowledge Gap for
Safe Maintenance of Healthy, Hybrid Diets*

Student Recipient: Jessica L. McGee
Faculty Sponsor: Wayne Billon

*Extent of Body Image Distortion in Healthy Weight
College Students*

Student Recipient: Cara Perdue
Faculty Sponsor: Wayne Billon

*The Impact of Parental Influence on Childhood
Dietary Behaviors in Comparison to Current Dietary
Habits of College Students*

Student Recipient: Jenifer M. Schwager
Faculty Sponsor: Wayne Billon

*Rural and Urban Background Influence on College
Eating Habits*

Student Recipient: Melissa Calhoun
Faculty Sponsor: Wayne Billon

*Nutrition Health among Vegetarian and Non-
Vegetarian College Students*

Student Recipient: Jessica Leah Nicholson
Faculty Sponsor: Wayne Billon

Stage and Screen

Choreographic Study

Student Recipients: Whitney Hinson, with Lisa Dunn, Amy Pisano, Patience Owl

Faculty Sponsor: Amy Dowling

Tales of Trickery: A Visual Synthesis of the Cultural and Theatrical Traditions of Bali

Student Recipient: Cara Ward

Faculty Sponsor: Glenda Hensley

WCU in the '30s

Student Recipients: Joshua Pond, Stephen Nanney, Brittnee Pressley, Sara Hawken

Faculty Sponsor: Steve Carlisle

Josephina Niggli

Student Recipients: Rachel Bleich, Emily Goodman, Marie Rawlings, Clara Hodge

Faculty Sponsor: Steve Carlisle

War of the Worlds Original Broadcast October 30, 1938

Student Recipients: Zachary Heaton, Adam Smith, Wade Redfearn, Amanda Kouri

Faculty Sponsor: Steve Carlisle

Honors College International Travel Grants

Study Abroad Ireland

Student Recipient: Katelyn Rath

Faculty Sponsor: Brian Railsback

Study Abroad England

Student Recipient: Kasey Wilson

Faculty Sponsor: Richard Starnes

Study Abroad Mexico

Student Recipient: Stephanie Strobel

Faculty Sponsor: Brian Railsback

Study Abroad Japan

Student Recipient: Max DeGrove

Faculty Sponsor: Masafumi Takeda

The Honors College Medallion

To commemorate the tenth anniversary of The Honors College, the student Board of Directors led the creation of a College medallion. The pen and ink rendering of Reynolds Hall was done by Asheville artist Lee Panthas and the medal's graphic design was completed by Loretta Adams.

The medallion is worn at Commencement by students who complete the Honors curriculum, the dean, and in rare cases by special friends of The Honors College. The medallion replaced the purple cord Honors graduates have worn at commencements since 1997.

The Honors College Western Carolina University

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828-227-7383

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