

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.

Engineering An Inexpensive Bathing Assistive Device For Home Healthcare Richard Domanski, Loc Wilkerson, Chris Rhodes, Josh Ellis	Interdisciplinary Studies Go TeamGo?: A Lack of School Spirit at Western Carolina University Dominique Keaton
Vehicular Upright Sitting Assistance Device Mark Little, T.J. Powers, Evan Burnette, Adam Cruthis	International Studies Machismo In American Politics And Foreign Relations Emily Collman
History The Morality of a Smoking Ban William Burton	Law and Legal Studies Does the Second Amendment of the U.S. Constitution Apply to the States? Russell McLean IV
Laura Cruzsponsor	

Music

Implementing Community-Base Opportunities in the Music Cla	U
Rebecca Frank	
Michael Schallock	
Evolution of the Clarinet: Antic	quity through the
Eighteenth Century	
Nicholas Gattis	presenter
Christina Raitz	snonsor

Political Science

The Hidden Hazards of the Staffard Act Tristan Artman presenter Todd Collins sponsor
Power, Money, and Safety: Why States Pursue Nuclear Weapons
Katy Elders presenter
Julie Logginssponsor
Just How Accurate are Polls Anyway? Matthew Neely
The Peace Corp in Africa: Who gets a piece?
Ashley Runnion presenter
Gibbs Knotts, Betty Farmersponsors
Voting Trends in the South Logan Thomas

Psychology

Motivations For Meat Consumption Among Ex-Vegetarians

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

Anthropology and Sociology m8

Student Pr	p.m. Place: M forks: Parallels of Modern resenter: Mark Braxton onsor: Vicki Szabo	n Combat		
Impact of E	British Colonialism on M	Iodern India		

	College of Business	
Business Ad	ministration and Law and Sport Management	
	College of Fine and Performing Arts	
	Conege of Pine and Performing Arts	

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 StewardAsia

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

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 Theridid 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 Coeffeicients 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

Development of the Green Energy and Green Building

Industries in WNC

Economic Development at WCU and the Surrounding Student Presenter: Mark Roloff Community Faculty Sponsor: Steve Ha

Student Presenters: Adam Richardson, Nick

Fracassi

Faculty Sponsor: Steve Ha

Four-Lane Highway in Graham County Student Presenter: Taylor Carringer

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, Nathacs 2: 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

College of Fine and Performing Arts (continued)

Interior Design (continued)

Fire and Water

Student Presenter: Kimberly Jarrett Faculty Sponsor: Jane Nichols

Green Restaurant Design

Student Presenter: Cheremnykh Natasha

Faculty Sponsor: Jane Nichols

H20

Student Presenter: Charlene McAllister-Pell

Faculty Sponsor: Jane Nichols

Mannequin Manor (Residential Design)
Student Presenter: Amber Baxley
Faculty Sponsor: Candace Roberts

Residential Design II Senior Project
Student Presenter: DeAnna Shepherd
Faculty Sponsor: Candace Roberts

Residential Design Project - XO Productions Student Presenter: Heather Krause Faculty Sponsor: Jane Nichols

Roots' Jazz Club - Restaurant Design Student Presenter: Natalie Miller Faculty Sponsor: Jane Nichols

Sake-Tu-Mi; Sushi Bar

Student Presenter: Jana Rohe Faculty Sponsor: Jane Nichols

Shyouz

Student Presenter: Margo Peck Faculty Sponsor: Jane Nichols Skybox Design

Student Presenter: Cheremnykh Natasha

Faculty Sponsor: Jane Nichols

Skybox Design - Base Burnt Records Student Presenter: Nicholas Savell Faculty Sponsor: Jane Nichols

So Fresh Records' Skybox Design Student Presenter: Olivia Banks Faculty Sponsor: Jane Nichols

Soul Session Records Luxury Sky Box Desisgn Student Presenter: Heather Provenzano

Faculty Sponsor: Jane Nichols

The Water Mark

Student Presenter: Rosalind Leos Faculty Sponsor: Jane Nichols

Urban Grotto

Student Presenter: Jessica Godfrey Faculty Sponsor: Jane Nichols

Stage and Screen

Costume Design for Plaza Suite Student Presenter: Leeanne Deaver Faculty Sponsor: Glenda Hensley

Tales of Trickery: A Visual Synthesis of the Cultural

and Theatrical Traditions of Bali *
Student Presenter: Cara Ward
Faculty Sponsor: Glenda Hensley

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

Insiduous Patella Fracture in a Collegiate Football

Player

Student Presenter: Jacqueline Kennedy

Faculty Sponsor: James Scifers

Transverse Process Fracture In A Collegiatge 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

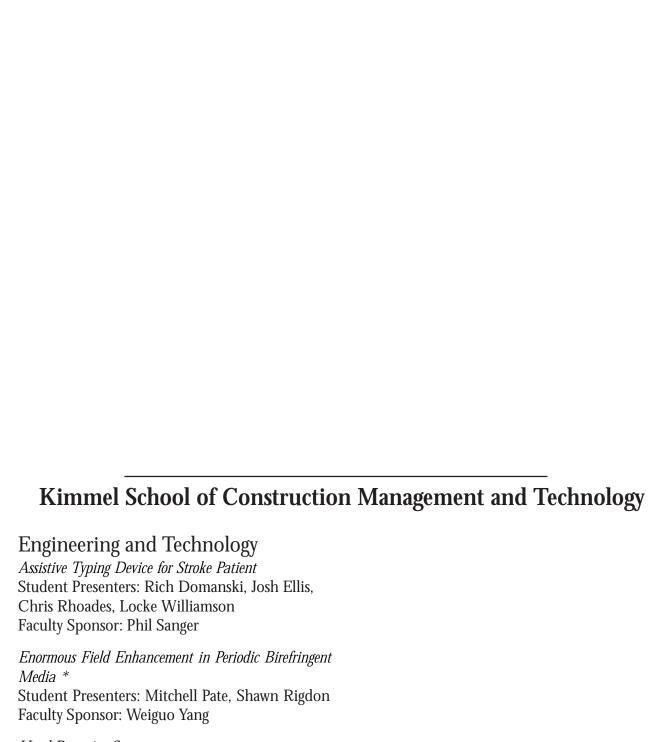
Cultural Differences: Pregnancy and Childbirth

Student Presenter: Amanda Armstrong

Faculty Sponsor: Susan Mitchell

Defining Characteristics of Neonatal Intensive Care

Student Presenter: Jennifer Pickler Faculty Sponsor: Steven Forst



Head Restraint System

Student Presenters: William Krukedall, Eric

Proctor, Brian Burks

Faculty Sponsor: Phil Sanger

Improved Goniometer

Undergraduate Expo 2009 - Western Carolina University - Wednesday, March 25

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

Zehrung, Beau Blackwelder Faculty Sponsor: Ben Tholkes

Panthertown

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

Kimmel School of Construction Management and Technology

<u>Undergraduate Academic Project Grants</u> <u>Awarded 2008-2009</u>

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)

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 Alterntive Spring Break in Chicago: Life-Changing Experiences from Service-

Learning Sites

Student Recipients: Bessie and Alan Goggins

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

Undergraduate Academic Project Grants Awarded 2008-2009

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 Abundance 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

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

Undergraduate Academic Project Grants Awarded 2008-2009

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

140 Reynolds Hall Cullowhee, NC 28723 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