Undergraduate Expo 2008

Western Carolina University
March 24-27

Welcome

The tenth Undergraduate Expo is the largest ever, with some 220 student presenters and 65 faculty sponsors, spread over 27 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 5:00 p.m. on Monday, March 24, 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 special faculty presentations 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 24.

Press Releases for Student Presenters

All student presenters are asked to arrive at the Expo Reception by 4:30 p.m., so their pictures can be taken for press releases and so those with posters will have time to set up their materials. Name tags and certificates will be distributed at that time.

National Conference on Undergraduate Research

Western Carolina University will send 39 students to the 2008 conference in Salisbury, Maryland. Please check the program on the next page for the complete list of NCUR22 abstracts accepted; this year, WCU ranked sixth in the nation in 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 - our biggest ever!
National Conference on Undergraduate Research 2008

Presentations at the 22nd National Conference on Undergraduate Research will be held at Salisbury University, Salisbury, MD, April 10-12, 2008. Below are the projects accepted, titles, student presenters, and their sponsors.

Anthropology/Sociology

From the Mudpit to the Hearth: Exploring Cherokee Pottery Making
Student Presenter: ... Jessica Compton
Sponsor: ..................... Jane Eastman

Beyond Band Aids: A Study of the Healthcare Workforce Shortage in Western North Carolina
Student Presenter: ..... James Picker
Sponsor: .................. Peter P. Nieckarz, Jr.

Art/Interior Design

Museum Interaction: A Friendly Dialogue
Student Presenter: ..... Dawn Treneman
Sponsor: ..................... Jane Nichols

Biology

Preliminary Work Toward Development of a DNAzyme for Probing RNA Secondary Structure
Student Presenter: ..... Alan D. Curtis
Sponsor: .................... Christopher Coburn

Traditional Cherokee Medical Techniques Antioxidant Properties
Student Presenter: ..... Steven Hollenback
Sponsor: .................... Lori Seischab

Chemistry and Physics

Ions at the Air/Water Interface: Inhibition or Enhancement of Neutral Solute Adsorption?
Student Presenter: ..... Katie Blumsack
Sponsor: .................... Carmen Huffman

Substrate Specificity of Soluble Quinoprotein Glucose Dehydrogenase
Student Presenter: ..... Alisha Hunter
Sponsor: .................... Aster Dewanti

Education/Allied Professions

ABC’s or Back to the Basics?
Student Presenter: ..... Emily A. Collman
Sponsor: .................... Pam Buskey

Electrical Engineering

Design of a Single Mode Active Waveguide Using Comsol© Software
Student Presenters: ... Shawn S. Dowdell, Jason D. Hull, and Lami M. Kamba
Sponsor: .................... Weiguo Yang

English

“She Was Shy and Simple and Young”: Our Lady of Trilogy
Student Presenter: ..... Maleah Pusz
Sponsor: .................... Annette Debo

Dare I Eat a Peach? A Debate Over the Usage of Dante’s Inferno in Eliot’s The Love Song of J. Alfred Prufrock
Student Presenter: ..... Catherine Connor
Sponsor: .................... Brent Kinser

Hamlet’s Problem
Student Presenter: ..... David Young
Sponsor: .................... Terry Nienhuis
Hurston’s Ishmael: The Use of Biblical Exile
Narrative in “Jonah’s Gourd Vine”
Student Presenter: .... Isaac Sturgill
Sponsor: ................... Annette Debo

I Hadde The Beste Quonyam Myghte Be: Feminine Sexuality, Chaucer and Lollardy
Student Presenter: ... Kendra Coker
Sponsor: ..................... Brian Gastle

Indian Killer
Student Presenter: ... Stephanie Jamison
Sponsor: ..................... Brian Railsback

Lonely Monsters
Student Presenter: .... Timothy McNeely
Sponsor: ..................... Brent Kinser

Mothers of the Road: Hope for the Future
Student Presenter: ... Chele Whalen
Sponsor: ..................... Annette Debo

Selkies and Fox Brides: The Dangers of Marriage
Student Presenter: .... Kirsten Huscusson
Sponsor: ..................... James Addison

Entrepreneurship

Social Entrepreneurship: Programs for Prisoners and the Homeless
Student Presenter: .... Linda Gardner
Sponsors: .................... Bethany Davidson and Frank Lockwood

Geosciences and Natural Resource Management

A Spatial Model Predicting Location of Winter Hibernacula and Summer Gestation Sites for Timber Rattlesnakes in Western North Carolina
Student Presenter: ... Jennifer Slagle
Sponsor: ..................... Ronald W. Davis

Health Sciences

Evaluation of an Air Sampling Protocol for Nanoscale Particles
Student Presenter: ... Michaela Hall
Sponsor: ..................... Tracy Zontek

History

From Coughs to Catastrophe: An Analysis of Ancient Egyptian Medical Practices
Student Presenter: ... Leia Hays
Sponsor: ..................... Laura Cruz

SDS: Demonstrations and Destruction
Student Presenter: ... Kasey Wilson
Sponsor: ..................... Alexander Macaulay

The Transmigration of Values: Generational Shifts in American Educational Focus in the Latter Half of the Twentieth Century
Student Presenter: ... Shawn Rhodes
Sponsor: ..................... Laura Cruz

We Should All Gray: A Biased Society’s Portrayal of Genocide
Student Presenter: ... Byron Burnette
Sponsor: ..................... Scott Philyaw

William Holland Thomas: Protector of the North Carolina Cherokee
Student Presenter: ... Chad Simons
Sponsor: ..................... Laura Cruz

International Business

The Impact of International Law on the Global Marketplace
Student Presenters: ... John Barbacci
Sponsor: ..................... Lorrie Willey
Business Law, Hospitality and Tourism Management, and Sport Management

Investigating the Impacts of Global Warming in the Hospitality and Tourism Industry
Student Presenters: ... Rebecca B. Weddle and Virginia S. Haas
Sponsor: ..................... Kyuho Lee

Music

“Give the Devil His Due:” Portrayals of the Demonic in Music
Student Presenter: ..... Rebecca Frank
Sponsor: ..................... Michael Lanford

Philosophy and Religion

Consciousness Shall Start the Revolution: The Role of Language and Consciousness within the German Ideology
Student Presenters: ... Matt Kirby
Sponsor: ..................... John Whitmire

Degendering God: The Relationship Between Culture and the Gender of Deity
Student Presenter: ..... Kate N. Rath
Sponsor: ..................... Beth Walden

Do Infants Think?: Wittgenstein and the Problem of Other Minds
Student Presenter: ..... Aaron Morgan
Sponsor: ..................... Christopher Hoyt

Environmental Protection as a Moral Obligation
Student Presenter: ..... James Beaver
Sponsor: ..................... John Whitmire

Exploration of College Athletes: Through the Breaking of a Promise
Student Presenter: ..... Andy Horn
Sponsor: ..................... John Whitmire

Extraordinary Pursuits of Simple Psyches:
An Integration Of Psychoanalysis and Buddhism
Student Presenter: ..... Jared Utecht
Sponsor: ..................... John Whitmire

Human Embryonic Stem Cell Research: Its Promise for Future Regenerative Medicine
Student Presenter: ..... Laura Holler
Sponsor: ..................... John Whitmire

Private Impartiality, Public Neutrality: A Look at the Idea of the Separation of Church and State
Student Presenter: ..... Judy L. Gregory
Sponsor: ..................... Daryl Hale

Satan From Jewish Antiquity to Early Christianity
Student Presenter: ..... Carrie Eidson
Sponsor: ..................... John Whitmire

The Axiology of Jean-Paul Sartre
Student Presenter: ..... Jonathan Bell
Sponsors: .................. James Mclachlan / Laura Cruz

The Origin of Our Species: Why Humans are Not Analogous to Animals
Student Presenter: ..... Michael G. O’shea
Sponsor: ..................... Christopher Hoyt

The Process Of Philosophy: How Wittgenstein Turns us Into Humans
Student Presenter: ..... Maleah Pusz
Sponsor: ..................... John Whitmire

Torture: An Unthinkable Crime or A Necessary Survival Tactic?
Student Presenter: ..... Parker Cox
Sponsor: ..................... Christopher Hoyt
Political Science

Politics and Higher Education: Partisan Diversity Among Political Science Professors in the University of North Carolina System
Student Presenter: Katheryn D. Ballard
Sponsor: Gibbs Knotts

Religious Affiliation and Congressional Voting on Stem Cell Research
Student Presenter: Courtney Swartwout
Sponsor: Christopher Cooper

Stage and Screen

Constructional Methods for the Musical Instruments of the Appalachian South
Student Presenter: William E. Ritter
Sponsor: Luther Jones

Encouraging Globalization Through the Exploration and Application of Japanese Theatrical Traditions
Student Presenter: Cara Ward
Sponsor: Susan Brown-Strauss
Undergraduate Expo 2008

Presentations will be held at Western Carolina University, March 24-27, according to college and department. Below are the project titles, presenters, sponsors, time, and place of presentation.

* – denotes a presentation also selected for NCUR22

**Poster Sessions**

**Monday March 24**

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

This evening’s accompaniment will be provided by pianist Patrick Thomas, who will be graduating from The Honors College this May with a Bachelor’s in Music Performance. His repertoire will include original compositions, arrangements, and selections by Chopin and Debussy.

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**College of Arts and Sciences**

**Biology**

16S rDNA Sequences: Are They the Gold Standard for Bacterial Identification?
Student Presenters: Stephen Briggs, Chris Kearney, Tyler Melton, and Candice Roberts
Sponsor: Dr. Sean O’Connell

Assessment of Antioxidant Activity in Traditional Cherokee Remedies for Rheumatoid Arthritis
Student Presenter: Steven Hollenback *
Sponsor: Dr. Lori Seischab

**Geosciences and Natural Resources Management**

Deer Effects on Forest Regeneration in Western North Carolina
Student Presenters: Weston VanDenabeele, Erin Beck, and Christopher Brad Elliot
Sponsor: Dr. Peter Bates

Evaluating Crop Tree Release Treatments in Southern Appalachian Coppice Stands
Student Presenters: Jennifer Mozeley and Kevin Griffin
Sponsor: Dr. Peter Bates

**Mathematics and Computer Science**

The History and Definition of Julia and Fatou Sets
Student Presenter: Katelan Price
Sponsor: Dr. Julia Barnes

19th Century Mathematics Education in the United States
Student Presenter: Megan Cavanah
Sponsor: Dr. Sloan Evans Despeaux

Blaise Pascal: Proving the Existence of God in Mathematics
Student Presenter: Laurel Cobb
Sponsor: Dr. Sloan Evans Despeaux

Ratios and Music: Pythagoras to Present
Student Presenter: Jaymi Jeffery
Sponsor: Dr. Sloan Evans Despeaux

The Aftermath of “New Math”
Student Presenter: Kerri Bernhardt
Sponsor: Dr. Sloan Evans Despeaux
Philosophy and Religion
Bridging the Gap: Masculine and Feminine Perceptions of Swedish Women’s Experiences in Christianity
Student Presenter: Maleah Pusz
Sponsor: Ms. Beth Walden

College of Business

Accounting, Finance and Economics
A Regional Economic Impact Analysis of the Millennial Initiative
Student Presenters: Bryan Shore, Amanda Heagy, and Grant Kantsios
Sponsor: Dr. Inhyuck Steve Ha

An Economic Assessment of the Construction Project on the I-26 Connector in Asheville, North Carolina
Student Presenters: Ryan Jaskot, Alison Joseph, and Bryan Vaughn
Sponsor: Dr. Inhyuck Steve Ha

An Economic Impact Analysis of the Harrah’s Cherokee Casino and Hotel in Western North Carolina
Student Presenters: Blake Rogers and Derek Keener
Sponsor: Dr. Inhyuck Steve Ha

An Economic Impact Analysis of the Tourism Industry in Jackson County, North Carolina: A Focus on Retail and Restaurants
Student Presenter: Colette Duniec
Sponsor: Dr. Inhyuck Steve Ha

To Build or Not To Build: Southern Loop
Student Presenters: Lottie Barker, Tina Hooks, and Abby Todd
Sponsor: Dr. Inhyuck Steve Ha

Business Law, Hospitality and Tourism Management, and Sport Management
Investigating the Impacts of Global Warming in the Hospitality and Tourism Industry
Student Presenters: Virginia Haas * and Rebecca Weddle *
Sponsor: Dr. Kyuho Lee

Employee Turnover: How Low Can We Go?
Student Presenters: Holly Jones and Shane Price
Sponsor: Dr. Cynthia Deale

Food Safety Knowledge Among Different Age Groups
Student Presenters: Meredith McNeill and Jessica Rogers
Sponsor: Dr. Cynthia Deale

Molecular Gastronomy in Relation to Beverage Operation
Student Presenter: Ryan Fussell
Sponsor: Dr. Cynthia Deale

NASCAR Hospitality
Student Presenter: Chris Beaver
Sponsor: Dr. Cynthia Deale

The Effects of Smoking on Food Enjoyment
Student Presenters: Rebecca Weddle, Katie Peak, and Evan Lindsey
Sponsor: Dr. Cynthia Deale

What do People Eat for Breakfast Around the World?
What are the Sanitation Codes Internationally?
Student Presenter: Brandi Gregory
Sponsor: Dr. Cynthia Deale

Wholistic Foods: Crock or Crackpot?
Student Presenters: Wesley Taylor and Kendra Johnson
Sponsor: Dr. Cynthia Deale
College of Education and Allied Professions

Health, Physical Education and Recreation
The Importance of Identification and Treatment of Benign Congenital Hypermobility
Student Presenter: Mary Bryson
Sponsor: Dr. Maridy Troy

Psychology
Sex Differences in Basic Moral Values
Student Presenters: Cory Combs, Kelly Cooke, Philip Cope, Jessica Darnell, Brandy Gribble, Regina Hathaway, Jessica Howell, Kelly Litfin, Fredrick Royal, Jordan Shuping, and Jocelyn Tipton
Sponsor: Dr. Hal Herzog

College of Fine and Performing Arts

School of Art and Design - Interior Design
Assisted Living: Main Street, U.S.A.
Student Presenter: Dawn Treneman *
Sponsor: Ms. Jane Nichols

Cube Model
Student Presenter: Linsey Wilson
Sponsor: Ms. Jane Nichols

Cube Model
Student Presenter: Nick Savell
Sponsor: Ms. Jane Nichols

Modular Building Design
Student Presenter: Natasha Cheremnykh
Sponsor: Ms. Jane Nichols

Modular Housing Design
Student Presenter: Kristen Hart
Sponsor: Ms. Jane Nichols

Modular Housing Design
Student Presenter: Kim Garren
Sponsor: Ms. Jane Nichols

Modular Housing Design
Student Presenter: Heather Krause
Sponsor: Ms. Jane Nichols

Optimal Pediatric Hospital Design
Student Presenter: Amanda Looney
Sponsor: Ms. Jane Nichols

Sullo Suites Modular Housing Design
Student Presenter: Jessica Sullo
Sponsor: Ms. Jane Nichols

Tatami Heights Housing Model
Student Presenter: Danielle Shaurette
Sponsor: Ms. Jane Nichols

Double Shotgun House
Student Presenter: Katy Garrett
Sponsor: Ms. Candace Roberts

Shotgun Home and Remodel
Student Presenter: Buffy Burge
Sponsor: Ms. Candace Roberts

Shotgun House
Student Presenter: Frederick Frey
Sponsor: Ms. Candace Roberts

Shotgun House
Student Presenter: Amber Aldridge
Sponsor: Ms. Candace Roberts

Shotgun House
Student Presenter: Andria Ford
Sponsor: Ms. Candace Roberts

Shotgun Project
Student Presenter: Jennifer Lathan
Sponsor: Ms. Candace Roberts

Shotgun Residential Project
Student Presenter: Mark Allen McConnell
Sponsor: Ms. Candace Roberts
### School of Music

**Original Student Composition: A Grief Passage for Tuba Quartet**
Student Presenter: Mike Young  
Sponsor: Dr. Michael Schalloch

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### Health Sciences

**Lateral Elbow Pain in a Collegiate Female Volleyball Player**
Student Presenter: Megan Gibson  
Sponsors: Dr. James Scifers and Jill Manners

**Medial Patellar Ligament Reconstruction in a Collegiate Football Player**
Student Presenter: Susan Hays  
Sponsors: Dr. James Scifers and Jill Manners

**Traumatic Posterior Hip Dislocation in a Collegiate Football Player**
Student Presenter: Brandon Auton  
Sponsors: Dr. James Scifers and Jill Manners

**Unusual Presentation of Head Injury in a Collegiate Athlete**
Student Presenter: Angela Arndt  
Sponsors: Dr. James Scifers and Jill Manners

**Determining the Impact of Oil-Based Painting Classes at FPAC**
Student Presenter: Trey Schneller  
Sponsors: Dr. Tracy Zontek and Dr. Burt Ogle

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### Nursing

**Organ Donation: The Gift of Life**
Student Presenter: Zoe Q. Cline  
Sponsor: Mr. Steve Forst

**Child Soldiers: A Global Health Concern**
Student Presenters: Nicholette Heim, Rebecca Miller, Jamie Anderson, Jillian Sapp-Moody, Lauren Gillespie, Christy Erwin, Kayla Painter, and Sefani Lahaie  
Sponsor: Ms. Bonnie Garner

**Delivering the Message of Pediatric Mental Health Advocacy: Sealed with a KýSS**
Student Presenter: Brittany L. Underwood  
Sponsor: Ms. Bonnie Garner

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### Stage and Screen

**Costume Design for Dogwood’s Search**
Student Presenter: Leeanne Deaver  
Sponsor: Ms. Glenda Hensley

**Wigs and Styling for Guys and Dolls**
Student Presenters: Kelli Flynn and Ashley Savage  
Sponsor: Ms. Glenda Hensley

**Construction Methods of Musical Instruments in Appalachia**
Student Presenter: William E. Ritter  
Sponsor: Mr. John Luther Jones

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### College of Health and Human Sciences
Nutrition and Dietetics

Comparison of Weight Status Between Childhood and Young Adult College Students
Student Presenter: Jill Lowe
Sponsor: Dr. Wayne Billon

Females’ Perceived Body Image in Relation to Fitness and BMI
Student Presenter: Melia Jade Pinnix
Sponsor: Dr. Wayne Billon

Healthy Snack Intake of College Students Compared to Healthy Snack Consumption as a Child
Student Presenter: Lindsey Brock
Sponsor: Dr. Wayne Billon

Media Influences on the Eating Habits of College Students
Student Presenter: Ruhamah Nuccio
Sponsor: Dr. Wayne Billon

Kimmel School of Construction Management, Engineering and Technology

Engineering Technology

Wheelchair Disc Brake System
Student Presenters: Nathanael Moore, John Redmon, Ryan Cook, and Robert Gammons
Sponsor: Mr. Chip W. Ferguson

Wheelchair Foot Pedal Loss Prevention System
Student Presenters: David Griffith, Tyler Bennett, and Steve Matichak
Sponsor: Mr. Chip W. Ferguson

Seating Assist Device
Student Presenters: Stefan Gruber, Jarrod Sams, and Justin Ramseur
Sponsor: Dr. Phillip Sanger

Wheelchair IV Attachment Kit
Student Presenters: Matt Holling, Natalie Cantler, and Mickey Maxwell
Sponsor: Dr. Phillip Sanger

Ankle Rehabilitation Device
Student Presenters: Justin Spormann, Michael Riddle, and Colin Lewis
Sponsor: Dr. Wesley Stone

Leg Rehabilitation Device
Student Presenter: Justin Johnson, Michael Turner, and Andrew Hess
Sponsor: Dr. Wesley Stone

I.V. Stand Holder
Student Presenters: Josh Gasaway, Clay Hefner, and Jeremy Burress
Sponsor: Dr. Wesley Stone
Monday, March 24, 2008

College of Arts and Sciences

Anthropology and Sociology

Time: 12:15-1:15 PM   Place: McKee 103
Ethnographic Examination of WCU Wellness Topics
Student Presenters: Richard J. Ray and Paul Denkenberger
Sponsors: Dr. Philip E. Coyle and Karrie Joseph

Chemistry and Physics

Time: 11:15 AM   Place: Natural Science 308
The Physics behind NMR and MRI Spectroscopy
Student Presenter: Emily Nantz
Sponsor: Dr. Mesfin Woldeyohannes

English

Time: 10:00 AM   Place: Coulter 102
Hope on The Road
Student Presenter: Chele Whalen *
Sponsor: Dr. Bill Spencer

Time: 10:10 AM   Place: Coulter 102
Anthropomorphism in Children’s Literature
Student Presenter: Brittany L. Keating
Sponsor: Ms. Deidre Elliott

Time: 10:10 AM   Place: Coulter 102
My Mother is a Fat Woman, Too
Student Presenter: Sara Champion
Sponsor: Ms. Deidre Elliott

Time: 10:10 AM   Place: Coulter 303
Declining Mortality Among Athletes
Student Presenter: Alan Goggins
Sponsor: Ms. Katherine Cipriano

Time: 4:45 & 5:15 PM Place: University Center Multicultural Center
Global Green Solutions
Student Presenter: Michael Stratton
Sponsor: Mr. Eric R. Hendrix

Time: 4:45 & 5:15 PM Place: University Center Multicultural Center
Muslims and the Media
Student Presenter: Colinda Petrus
Sponsor: Mr. Eric R. Hendrix

History

Time: 2:30 PM   Place: McKee 210
Britain on the High Seas: A History of Naval Warfare, 1805-1914
Student Presenter: Michael Frixen
Sponsor: Dr. David Dorondo

Time: 2:30 PM   Place: McKee 209
From Coughs to Catastrophe: An Analysis of Ancient Egyptian Medical Practices
Student Presenter: Leia Hays *
Sponsor: Dr. Laura Cruz

Time: 2:30 PM   Place: McKee 209
Haunted Places: North Carolina and the Social Meaning of Death
Student Presenter: Lindsay Johnston
Sponsor: Dr. Laura Cruz

Time: 2:30 PM   Place: McKee 210
William Holland Thomas: Protector of the NC Cherokee
Student Presenter: Chad Simons *
Sponsor: Dr. Laura Cruz

Time: 3:30 PM   Place: McKee 210
Ars Monindi: Teaching Death to Elementary Age Students
Student Presenter: Stephanie Jamison *
Sponsor: Dr. Laura Cruz

Time: 3:30 PM   Place: McKee 209
Myth of the TVA: The Tennessee Valley Authority and the Transformation of Mountaineer Culture 1933-1960
Student Presenter: Benjamin Sheehan
Sponsor: Dr. H. Tyler Blethen
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<th>History (continued)</th>
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<tr>
<td>Time: 3:30 PM Place: McKee 209</td>
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<tr>
<td>Occult Symbols and Government Conspiracy Theories</td>
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<td>Student Presenter: Matt Kirby *</td>
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<td>Sponsor: Dr. Laura Cruz</td>
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<tr>
<td>Time: 3:30 PM Place: McKee 210</td>
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<td>SDS: Demonstrations and Destruction</td>
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<td>Student Presenter: Kasey Wilson *</td>
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<td>Sponsor: Dr. Alex Macaulay</td>
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<td>Time: 3:30 PM Place: McKee 209</td>
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<tr>
<td>Zombies: Historical Perspectives on Mchu Sanity</td>
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<td>Student Presenter: John Bartlett</td>
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<td>Sponsor: Dr. Laura Cruz</td>
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<th>Philosophy and Religion (continued)</th>
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<td>Time: 1:00 - 5:00 PM Place: Stillwell 225</td>
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<tr>
<td>The Ruse of Natural Selection</td>
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<tr>
<td>Student Presenter: Michael Frixen</td>
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<td>Sponsor: Dr. Daryl L. Hale</td>
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<td>Time: 1:00 - 5:00 PM Place: Stillwell 225</td>
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<td>Consciousness Shall Start the Revolution: The Role of Language and Consciousness</td>
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<td>within the German Ideology</td>
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<td>Sponsor: Dr. John Whitmire</td>
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<th>Political Science and Public Affairs</th>
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<td>Time: 2:30 PM Place: Stillwell 424</td>
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<tr>
<td>Just How Accurate are Polls, Anyway?</td>
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<tr>
<td>Student Presenter: Matthew Neely</td>
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<td>Sponsor: Dr. H. Gibbs Knotts</td>
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<td>Time: 2:30 PM Place: Stillwell</td>
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<td>Resolving Reality: The War in Iraq from the British Perspective</td>
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<td>Student Presenter: Diandra Frommer</td>
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<td>Sponsor: Dr. C. Don Livingston</td>
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<th>College of Fine and Performing Arts</th>
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<td>School of Art and Design - Interior Design</td>
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<tr>
<td>Time: 12:30 PM Place: Belk 308</td>
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<tr>
<td>Amenities in Airport Facilities</td>
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<tr>
<td>Student Presenter: Frederick Frey</td>
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<td>Sponsor: Ms. Jane Nichols</td>
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<tr>
<td>Time: 12:30 PM Place: Belk 308</td>
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<tr>
<td>Designing for Assisted Living Residents’ Needs</td>
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<td>Student Presenter: Buffy Burge</td>
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<td>Sponsor: Ms. Jane Nichols</td>
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<tr>
<td>Encouraging Globalization Through the Exploration and Application of Japanese</td>
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<td>Theatrical Traditions</td>
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<td>Student Presenter: Cara Ward *</td>
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<td>Sponsor: Ms. Susan Brown-Strauss</td>
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Undergraduate Expo 2008 - Western Carolina University - Monday, March 24
Tuesday, March 25, 2008

College of Business

Accounting, Finance and Economics

Time: 6:00 - 8:30 PM  Place: Belk 407
10,000 TEU Ship Fuel Consumption
Student Presenter: Doug Mills
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Containership Fuel Consumption at 12,000 TEUs
Student Presenter: Vanessa K. Moore
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Fuel Efficiency of a Hypothetical 14,000 TEU Ship
Student Presenter: Diamond A. Rice
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Impacts of 19,540 Deadweight Tonnage Ship
Student Presenter: Erin Beck
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Ship Fuel Economy Estimate for a 9,000 TEU Ship
Student Presenter: Tina Hooks
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Estimate of Ship Fuel Consumption for a Fully Loaded Cargo Ship
Student Presenter: Weston VanDenabeele
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Fuel Consumption of Very Large Container Vessels
Student Presenter: John Sanders
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Fuel Efficiency in Large Scale Shipping
Student Presenter: J.R. Moody
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Ship Fuel Economy Estimate
Student Presenter: Colette Duniec
Sponsor: Dr. Robert F. Mulligan

Accounting, Finance and Economics (continued)

Time: 6:00 - 8:30 PM  Place: Belk 407
Ship Fuel Economy Estimate
Student Presenter: Christopher Brad Elliot
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Ship Fuel Economy Estimate
Student Presenter: Daniel Ferguson
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Ship Fuel Economy Estimates and Environmental Impacts
Student Presenter: Jenny Mozeley
Sponsor: Dr. Robert F. Mulligan

Time: 6:00 - 8:30 PM  Place: Belk 407
Shipping and Fuel Consumption
Student Presenter: Chris Hastings
Sponsor: Dr. Robert F. Mulligan

Business Law, Hospitality and Tourism Management and Sport Management

Time: 9:30 AM  Place: Belk 323
Campus R/T Broadcasting: Legal Considerations
Student Presenter: Joe Mullins
Sponsor: Dr. Debra Burke

Time: 9:30 AM  Place: Belk 323
The Changing Nature of Supervision and Its Implications for Labor/Management Relations in the 21st Century
Student Presenter: John Hensley
Sponsor: Dr. Debra Burke
College of Arts and Sciences

Anthropology and Sociology

Time: 2:05 - 3:20 PM   Place: McKee 103
A Premier University! Problems Facing the Ghanaian Education System
Student Presenter: Jennie V. Dowdle
Sponsor: Dr. Nyaga Mwaniki

Mathematics and Computer Science

Time: 1:30 PM   Place: Stillwell 424
Topology and Prime Numbers
Student Presenter: Andrew Penland
Sponsor: Dr. Risto Atanasov

English

Time: 2:05 PM   Place: Coulter 102
Dare I Eat a Peach
Student Presenter: Catherine Connor *
Sponsor: Dr. Brent Kinser

Time: 2:05 PM   Place: Coulter 102
Lonely Monsters: Power & Isolation in “Caliban upon Setebos”
Student Presenter: Tim McNeely *
Sponsor: Dr. Brent Kinser

Time: 2:05 PM   Place: Coulter 102
'she was shy and simple and young': Our Lady of Trilogy
Student Presenter: Maleah Pusz *
Sponsor: Dr. Annette Debo

Philosophy and Religion

Time: 3:35 PM   Place: McKee 223
Process Philosophy: The Business of Becoming
Student Presenter: Maleah Pusz *
Sponsor: Dr. Christopher Hoyt

Division of Student Affairs

Counseling and Psychological Services/Health Services: Campus Leaders Advocating Wellness

Time: 12:45 PM   Place: University Center Multipurpose Room
HPV (Human Papilloma Virus): Causes, Symptoms, Diagnosis, and Prevention
Student Presenter: Shaadia Moore
Sponsors: Ms. Karrie Joseph and Arika Shafer
College of Business

Accounting, Finance and Economics

Time: 9:05 AM  Place: Killian 111
Comparative Financial Analysis - Citi Corp
Student Presenter: Susanna Sjokvist
Sponsor: Dr. J. Michael Arnott

Time: 9:05 AM  Place: Killian 111
Comparative Financial Analysis - Jackson Savings Bank
Student Presenter: Bryan Shore
Sponsor: Dr. J. Michael Arnott

Accounting, Finance and Economics (continued)

Time: 9:05 AM  Place: Killian 111
Comparative Financial Analysis - USAA Federal Savings Bank
Student Presenter: Brandon Wiegand
Sponsor: Dr. J. Michael Arnott

College of Education and Allied Professions

Health, Physical Education and Recreation

Time: 10:00 AM - noon  Place: Reid 122H
Active Aging through Functional Fitness
Student Presenters: Leah Daino, Nicole Bost, Elliott Bridges, and Billy Tessanair
Sponsor: Ms. Debby Singleton

Time: 10:00 AM - noon  Place: Reid 122H
Climbing Spire Heart Rate
Student Presenters: Carrie Worley, Tameka Buchanan, and Zack Stephenson
Sponsor: Dr. Ben Tholkes

Time: 10:00 AM - noon  Place: Reid 122H
Fighting Obesity through Adventure Education in Ireland
Student Presenters: Alison Hughes and Alan Dowling
Sponsor: Ms. Debby Singleton

Time: 10:00 AM - noon  Place: Reid 122H
Rafting and Decision-Making
Student Presenters: Greg Demonet and Matt Bishop
Sponsor: Dr. Maurice Phipps

Health, Physical Education and Recreation (continued)

Time: 10:00 AM - noon  Place: Reid 122H
Walking in Jackson County
Student Presenters: Jessica Hobart and Stephen Page
Sponsor: Dr. Ben Tholkes

Time: 10:00 AM - noon  Place: Reid 122H
Mount Mitchell State Park
Student Presenters: Robbie McGraw and Chris Herndon
Sponsor: Dr. Maurice Phipps

Time: 10:00 AM - noon  Place: Reid 122H
South Mountain State Park
Student Presenters: Chris Osterhoudt and Joshua Purdy
Sponsor: Dr. Ben Tholkes

Time: 10:10 - 11:00 AM  Place: Reid 122H
Using PROCESS for Problem Solving
Student Presenters: Rob Stewart, Kurt Bivens, and Evan Agee
Sponsor: Dr. Maurice Phipps
Psychology

Time: 11:15 AM  Place: University Center Grand Room
*Using Podcasting in Teaching Psychology*
Student Presenters: Ashan Davis and Wes Cone
Sponsor: Dr. Robert Crow

Division of Student Affairs

Student Media

Time: 4:00 PM  Place: Old Student Union Student Media Center Conference Room
*Conundrums of Cooking: Part II, Making a TV Station*
Student Presenter: Joseph Mullins
Sponsor: Ms. Katherine Duff Smith
Thursday, March 27, 2008

College of Health and Human Sciences

Applied Criminology

Time: 3:00 - 5:00 PM  Place: Belk 412
The Purpose of Hazard Identification: Why and When Should it be Done?
Student Presenter: Christopher J. Love
Sponsor: Dr. Robert T. Berry

Time: 3:00 - 5:00 PM  Place: Belk 412
To Evacuate or Not to Evacuate: Influences as to How to Decide
Student Presenter: Bryan K. Devinney
Sponsor: Dr. Robert T. Berry

Social Work

Time: 11:00 AM  Place: McKee G13
Mental Illness: Everyone Needs to Know - Bipolar Disorder
Student Presenter: Lisa Weeks
Sponsor: Ms. Dottie Greene

Time: 11:00 AM  Place: McKee G13
Mental Illness: Everyone Needs to Know - Obsessive Compulsive Disorder
Student Presenter: Brenda Pace Jones
Sponsor: Ms. Dottie Greene

Time: 11:00 AM  Place: McKee G13
Mental Illness: Everyone Needs to Know - Schizophrenia
Student Presenter: Turkessa Baten
Sponsor: Ms. Dottie Greene

College of Education and Allied Professions

Elementary and Middle Grades Education

Time: 6:00 PM  Place: Killian 265
ABC's or Back to the Basics
Student Presenter: Emily Collman *
Sponsor: Ms. Pam Buskey

College of Arts and Sciences

English

Time: 12:35 PM  Place: Coulter 103
Political and Religious Influences on Medieval Fashion
Student Presenter: Sophi Cox
Sponsor: Dr. Gayle Miller

College of Business

Accounting, Finance and Economics

Time: 8:00 AM  Place: Coulter 302
Companies & Stocks Going Green
Student Presenter: Nichole Wildman
Sponsor: Dr. Grace Allen

Time: 8:00 AM  Place: Coulter 302
Comparing and Contrasting Mutual Funds and ETFs
Student Presenter: Paterne Forkam Teda
Sponsor: Dr. Grace Allen

Kimmel School of Construction Management, Engineering and Technology

Construction Management

Time: 4:00 PM  Place: Belk 104
Berkshire Park: Phase One Windemere, Florida
Student Presenters: Kate Vafai, Michele Bretz, John Foti, Blaze Porter, Berl Childers, and Wil Owens
Sponsor: Mr. Gary Burke

Undergraduate Expo 2008 - Western Carolina University - Thursday, March 27
Undergraduate Research Grants
Awarded 2007-2008

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)
- Hal Herzog (Education and Allied Professions)
- Kathy Matthews (Arts and Sciences)
- Brian Railsback (Honors)
- Ron Rash (Arts and Sciences)
- Marya Roland (Fine and Performing Arts)
- John Schweikart (International Programs)
- Tracy Zontek (Health and Human Sciences)

The committee awarded over $15,000, and therefore 2007-08 was a record year.

Art & Design

- **Extinguish: Anything But(t) Litter**
  - Student Recipient: Tara Jones
  - Faculty Sponsor: Marya Roland

Geosciences and Natural Resources Management (continued)

- **Evaluating Crop Tree Release Treatments in Southern Appalachian Coppice Stands**
  - Student Recipients: Jennifer Mozeley, Kevin Griffin, Mason Phillippi, and John Austin
  - Faculty Sponsor: Peter Bates

- **Mapping Existing River Cane Sites within Jackson County, North Carolina using Visible Aerial Photography**
  - Student Recipient: Carey Burda
  - Faculty Sponsor: Joni Bugden-Storie

Health Sciences

- **Chronic Buttock and Spine Pain in a Female Collegiate Soccer Player**
  - Student Recipient: Tammy Jones
  - Faculty Sponsor: Jill Manners

- **College Female’s Perceived Body Image in Relation to Fitness and BMI**
  - Student Recipient: Melia Pinnix
  - Faculty Sponsor: Wayne Billon

- **Comparison of Weight Status Between Childhood and Young Adult Students**
  - Student Recipient: Jill Lowe
  - Faculty Sponsor: Wayne Billon
Health Sciences (continued)
Evaluation of an Air Sampling Protocol for Nanoscale Particles
Student Recipient: Michaela Hall
Faculty Sponsor: Tracy Zontek

Extent of Media Influence on College Student’s Self-Image
Student Recipient: Cara Perdue
Faculty Sponsor: Wayne Billon

Food Insecurity Awareness Project
Student Recipients: Personal Nutrition Seminar ND 190.03 & 190.05
Faculty Sponsor: April Tallant

Healthy Snack Intake of College Students Compared to Healthy Snack Consumption as a Child
Student Recipient: Lindsey Brock
Faculty Sponsor: Wayne Billon

Lateral Elbow Pain in a Collegiate Female Volleyball Player
Student Recipient: Megan Gibson
Faculty Sponsor: Jill Manners

Lower Right Quadrant Pain in a College Female
Student Recipient: Katlyn Joyner
Faculty Sponsor: Jill Manners

Media Influences on the Eating Habits of College Students
Student Recipient: Ruhamah Nuccio
Faculty Sponsor: Wayne Billon

Medial Patellar Ligament Reconstruction in a Collegiate Football Player
Student Recipient: Susan Hays
Faculty Sponsor: Jill Manners

Parents Influence on Nutrition Knowledge and Dietary Practices of College Students
Student Recipient: Kimberly Welch
Faculty Sponsor: Wayne Billon

Proximal Avulsion of Hamstring Tendons in a Recreational Bowler
Student Recipient: Stephanie Stark
Faculty Sponsor: Jill Manners

Health Sciences (continued)
Sacroiliac Joint Dysfunction in a College Female
Student Recipient: Katlyn Joyner
Faculty Sponsor: Jill Manners

The Effect Previous Sports Participation has on College Students Activity Levels
Student Recipients: Jamie Michelle Cline and Elizabeth Lippard
Faculty Sponsor: Wayne Billon

The Effect Urban and Rural Environments have on the Diet of Adolescents and Young Adults
Student Recipient: Gigey Cheek
Faculty Sponsor: Wayne Billon

Traumatic Posterior Hip Dislocation in a Collegiate Football Player
Student Recipient: Brandon Auton
Faculty Sponsor: Jill Manners

Traumatic Upper Arm Injury in a Male College Student
Student Recipient: Adam Graham
Faculty Sponsor: Jill Manners

Unusual Traumatic Brain Injury in a Female College Athlete
Student Recipient: Angela Arndt
Faculty Sponsor: Jill Manners

Mathematics and Computer Science
A Glance at Monte Carlo
Student Recipient: Truly Lucman
Faculty Sponsor: Erin McNelis

Smoky Mountain Undergraduate Research Conference on the History of Mathematics
Student Recipients: Laci Bogan and Jaymi Jeffery
Faculty Sponsor: Sloan Despeaux

The Aftermath of “New Math”
Student Recipient: Kerri Bernhardt
Faculty Sponsor: Sloan Despeaux
Music

Horn
Student Recipients: Sarah Gregory, Amber Mattatall, Brandon Meeks, Ryan Reed, Mitchell Boughman, Tommy Chekelelee, Elizabeth Morantz, Justin Carter, Justin Rose, Ashleigh Cook, Kelisa Underwood, Cameron Murray
Faculty Sponsor: Travis Bennett

Performance at the U.S. Navy Band Saxophone Symposium
Student Recipients: Sheldon Frazier, Joseph Basile, Ryan Cameron, and Rachel Drew
Faculty Sponsor: Ian Jeffress

Nursing

Delivering the Message of Health Advocacy: Sealed with a KySS
Student Recipient: Brittany Underwood
Faculty Sponsor: Bonnie Garner

Psychology

Should Professors Utilize Social Networking Websites? and Student’s Views Concerning Appropriateness of Professors Using Social Networking Websites
Student Recipients: Heather Hines and Mallory McDaniel
Faculty Sponsor: Alvin Malesky

The Effects of Race and Sex on Job Applicant Ratings
Student Recipients: Ruby Burns and Stacey McClellan
Faculty Sponsor: Millicent Abel

Stage and Screen

Costume Design: Dogwood’s Search - A Journey from Research to Presentation
Student Recipient: Leanne Deaver
Faculty Sponsor: Glenda Hensley

Undergraduate Research Grants Awarded 2007-2008