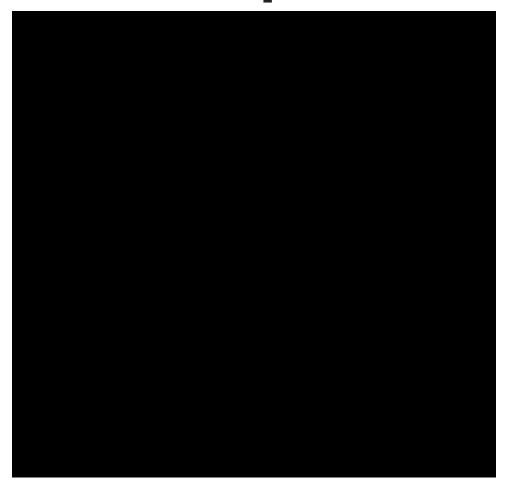
# The Thirteenth Annual

# Undergraduate Expo



March 21-22

2011

# Undergraduate Expo 2011

Western Carolina University

March 21-22

	March 21-22
The thirteenth Undergraduate Expo featu over thirty departments and programs and	Welcome ures 263 student presenters and 77 faculty sponsors, spread Itwo days. Through this event, Western Carolina Univity

#### **Economics**

Income Inequality in the United States and Historical Solutions

Matthew Sutter, presenter Inhyuck Ha, sponsor

An Economic and Policy Analysis of South Korea as the Top Producer in the World's Ship Building Industry Eun-jung Woo, presenter James M. Arnott, sponsor

### Education

Perceptions of Special Education and General Education Teachers on Students with Physical and Intellectual Disabilities in the Classroom Ashley Anderson, presenter Valerie M. Mazzotti, PhD, sponsor

Special Education Teachers Perceptions of Using "Scientifically-Based" Research Practices to Teach Students with Moderate/Severe Disabilities Amber Anderson, presenter Valerie M. Mazzotti, PhD, sponsor

Researching Farm to School: Integrating Farm Field Trips, Nutrition, Cooking, and Gardening into an Already Filled Third Grade Curriculum Sarah Malcolm, presenter Dr. Patricia Bricker, sponsor

Connecting Farm to School Activities and Required Curriculum: An Action Research Project in a Kindergarten Classroom Carol Norris, presenter Dr. Patricia Bricker, sponsor

Civic Education for Teenagers: Educating Effective Citizens

Amanda Smith, presenter

Dr. Christopher Cooper, sponsor

Enhancing the Learning Experience Christine Weathers, presenter Dr. Terry Rose, sponsor

# English

Feminism, Sexuality, and Myth in H.D.'S Sea Garden

Kayla Beauduy, presenter Dr. Annette Debo, sponsor

John Keats, the Apothecary Surgeon of "Ode To A Nightingale" Taylor Fie, presenter Brent E. Kinser, sponsor

Things Fall Apart: The Real Housewives of Igbo Culture Kayla Jones, presenter

Kayla Jones, presenter Laura Wright, sponsor

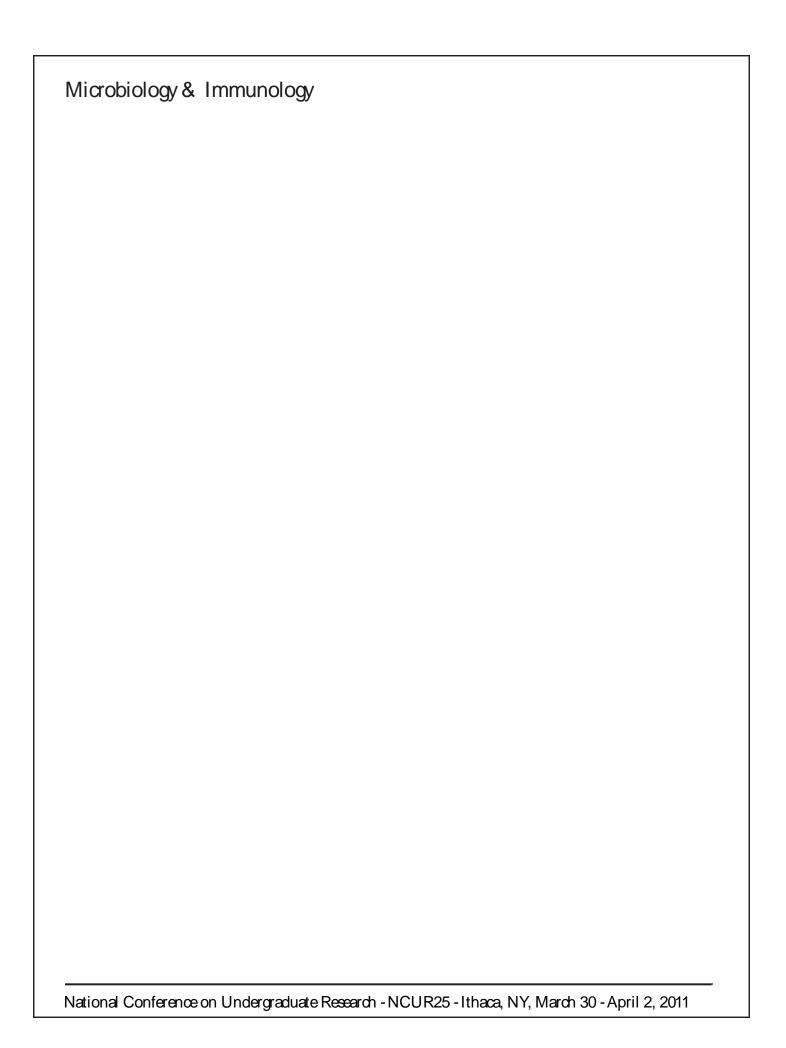
"You Rememory Me?": The Role of the Past in Toni Morrison's <u>Beloved</u> Elizabeth Nissly, presenter Dr. Annette Debo, sponsor

### Environmental Studies & Sciences

Actual Versus Perceived Recycling by Western
Carolina University Students
Austin Brooks, presenter
Dr. Laura DewalT0[Amber Ander)-7.1(son,) Tch d:muET/ GS4

National Conference on Undergraduate Research - NCUR25 - Ithaca, NY, March 30 - April 2, 2011

continued)					
The Effect of	Substituting 1	Resistant Stard	ch for All		



# Sociology

Game On—Understanding The Nintendo Ds as a Socializer in Childhood: From the Child's Perspective; From The Adult's Perspective Nicholas Weitzel, presenter Marilyn Chamberlin, sponsor

The Culture War's Littlest Crusaders: The Orthodox Allies' Last Hope Mary Beth Fallin, presenter Peter Nieckarz, sponsor

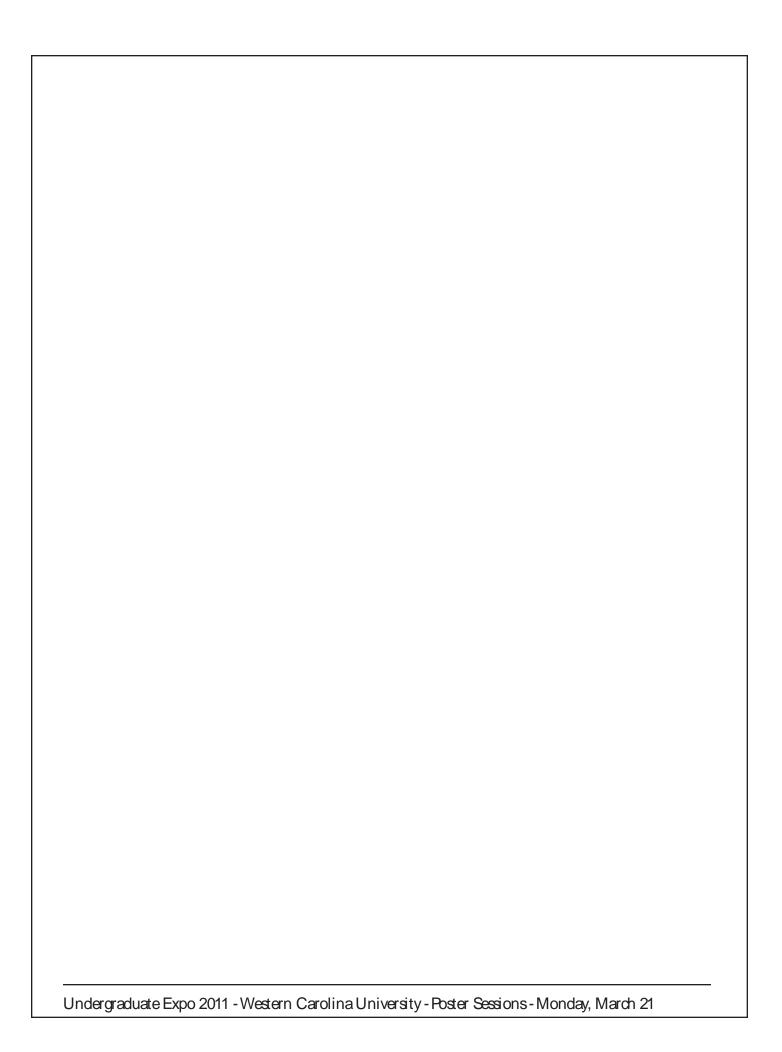
### Theatre/Drama

Theatre Games/Exercises and their Effect on Thespians
Benjamin Chafetz, presenter
Deryl Victor Caitlyn, sponsor

Creating a 1938 Period Look for Women With Contemporary Eveningwear. Sarah Hardy, presenter Susan K. Brown-Strauss, sponsor

Women and Gender Studies

"Is it a Choice?"



## Chemistry and Physics (continued)

DNA Extraction from Bone Demineralization Student Presenter: Alexandra Witter Faculty Sponsor: Brittania Bintz

# English

MacDonald's Spiritual Evolution in Narnia's

Animals

Student Presenter: Anne Catherine "Kate"

McRae

Faculty Sponsor: James Addison

Charles Dickens: His Life and His Work Student Presenter: Elizabeth Nissly Faculty Sponsor: Brent Kinser

Charles Dickens the Revolutionary Reader: A

Christmas Carol on Stage

Student Presenter: Christopher Rollins

Faculty Sponsor: Brent Kinser

# Mathematics & Computer Science

Developing Mobile Applications for Use in Teaching a Mobile Applications Development Course
Student Presenter: Christopher Blades
Faculty Sponsor: Mark Holliday

# Modern Foreign Languages

"My Eiffel Tower is no Minaret" - Anti-Islamic

Discrimination in France

Student Presenter: Corey Atten Faculty Sponsor: Jamie Davis

Mass Graves of Guatemala

Student Presenter: Neisha Harding\* Faculty Sponsor: Jamie Davis

### Political Science and Public Affairs

What's Happening? Acceptance and Use of New Media in Parliament and Congress

Student Presenter: Caroline Wright Faculty Sponsor: Gibbs Knotts

# Geosciences & Natural Resources

Groundwater Flow Through Fractures in Crystalline Rock at Coweeta Hydrologic Laboratory, North Carolina

Student Presenter: Lily Savitsky

Faculty Sponsor: Cheryl Waters-Tormey

The Effects of Magnetic Interactions and Concentrations

on Magnetic Remenance and Magnetic Fabrics Student Presenter: Michael D. Stillwagon Jr Faculty Sponsor: Cheryl Waters-Tormey

Assessing Ruffed Grouse Populations and Habitats

at Balsam Mountain Preserve

Student Presenter: Kyle Underwood Faculty Sponsor: Ronald Davis



Comparing the Energy Requirements for Two Sizes of Panamax Vessels (4000 TEU And 11000 TEU)

to Those of Semi-Trucks and Trains
Student Presenter: Andrew Harsey
Faculty Sponsor: Robert Mulligan

2011 Unemployment Forecast based on Historical

Unemployment and Inflation Rates
Student Presenter: Jonathan Jeuck
Faculty Sponsor: Robert Mulligan

Projected Unemployment Rate for 2011 Student Presenter: Reed Jones Faculty Sponsor: Robert Mulligan

Effects of the Canal Expansion Project on Efficiency between Current Ship Sizes, New Ship Sizes, and Ground Transport, as well as Pollution Concerns

Student Presenter: Robert G Kreza Faculty Sponsor: Robert Mulligan

Evaluating the Environmental Impact of the

Panama Canal Expansion Project Student Presenter: Patrick Lacienski Faculty Sponsor: Robert Mulligan

2011 Rise and Fall of Unemployment Student Presenter: Brodie Lowe Faculty Sponsor: Robert Mulligan

Where Are the Jobs?

Student Presenter: Michael McLamb Faculty Sponsor: Robert Mulligan

Comparison Between Truck, Train, and Panamax Shipping Vessels to Determine the Most Efficient

Delivery Method

Student Presenter: Lacy McMinn Faculty Sponsor: Robert Mulligan

2011 Unemployment Forecast

Student Presenter: Naim Mehovic Faculty Sponsor: Robert Mulligan With the Expansion of the Panama Canal, new Panamax Vessels will have Lower Emissions
Student Presenter: Benjamin Melton
Faculty Sponsor: Robert Mulligan

Forecasting the Unemployment Rate with the Phillips

Curve

Student Presenter: Natalie Navi Faculty Sponsor: Robert Mulligan

Unemployment Regression Forecast 2011

# Psychology

A Multicultural Approach in the Elementary Education Classroom

Student Presenter: Tia Hughes Faculty Sponsor: John Habel

"Using the Necker Cube to Measure Attention"
Student Presenter: Jessica L. Hurlbut\*,

Christopher J Macemore

Faculty Sponsor: Winford A. Gordon

Abortion, Animal Rights, and Anthropomorphism:

Effectiveness of Mandatory Arrest Policies for

Domestic Violene

Student Presenter: Kayla Russell, Jordan Peters

Faculty Sponsor: Jamie Vaske

Gene, Environment Interaction of Gene DRD4 on

Antisocial Behavior Outcomes

Student Presenter: Meridia Sanders, Lindsey

Harper

Faculty Sponsor: Jamie Vaske

Interaction of MAOA and the Environment on

Antisocial Outcomes

Student Presenter: Jacon Stamey, Peggy Johnson

Faculty Sponsor: Jamie Vaske

# School of Health Sciences – Environmental Health Sciences

Identifying Deficiencies in Construction Injury/Illness Repory A-

# School of Health Sciences – Nutrition and Dietetics

Investigating Weight Reduction Diets: Comparing the Costs of One Day Menus for MyPyramid, Atkins<sup>TM</sup>, Slim Fast®, and Weight Watchers® Weight Loss

**Programs** 

Student Presenter: Krystal Arrington, Annie

Pauley

Faculty Sponsor: Wayne Billon

Eating Habits of College Freshmen

Student Presenter: Kristian Belk, Whitney

Hinceman

Faculty Sponsor: Wayne Billon

Comparing a Regular Diet, Pesco-Vegetarian Diet, Vegan Diet, and Vegetarian Diet in Athletes Student Presenter: Chloe Greene, Mindy Toler

Faculty Sponsor: Wayne Billon

Determining Cost When Adopting a Plant-Based Diet Student Presenter: Mary Hackney, Rebecca

Rolon

Faculty Sponsor: Wayne Billon

Common Conditions and Contributing Factors Seen at

the Good Samaritan Clinic

Student Presenter: Caroline Holland Faculty Sponsor: Wayne Billon

Knowledge of Diabetes in Diabetic and Non-diabetic

Students of Western Carolina University
Student Presenter: David Lightner
Faculty Sponsor: Wayne Billon

# School of Nursing

Errors Related to Fatigue in Nursing
Student Presenter: Whitney Benfield

Faculty Sponsor: Steve Forst

Exploring Atrial Fibrillation: A Student's Perspective

Student Presenter: Chelsea Dennis

Faculty Sponsor: Steve Forst

# Office of the Provost

# The Program for the Study of Developed Shorelines

Mapping Western Carolina University using High Resolution Aerial Photographs

Student Presenter: Rachel Phipps Faculty Sponsor: Adam D. Griffith

# The Kimmel School

# Construction Management

Solar Powered Fountain

Student Presenter: Lyndsey Gentry Nathan Pierce

Faculty Sponsor: Dr. George Ford

Undergraduate Expo 2011 - Western Carolina University - Poster Sessions - Monday, March 21

# Monday, March 21, 2011 <u>Presentations</u>

# College of Arts and Sciences

# Anthropology & Sociology

Place: McKee 114 Time: 12:15 PM

Cadaver Dogs as Part of the Archaeological Survey

Process

Student Presenter: Paul S. Martin Faculty Sponsor: Anne Rogers

Time: 12:35 PM

Game On-Understanding the Nintendo DS as

Modern Foreign Languages

Place: McKee 135 Time: 1:25 PM

Japan and I (Past, Current, Future)

Student Presenter: Dorothy Anna Hunt, Joshua Pond, Matthew Barret, Alexander Smith, Jeremy Gregory, Cassie Small, Matthew Mugrage, James

Berry, Alfres Vendrell, and Stephen Parton

Faculty Sponsor: Yumiko Ono

Time: 2:30 PM Place: McKee 135

Japan and I (Past, Current, Future)

Student Presenter: Dorothy Anna Hunt, Joshua Pond, Matthew Barret, Alexander Smith, Jeremy Gregory, Cassie Small, Matthew Mugrage, James Berry, Alfres Vendrell, and Stephen Parton

Faculty Sponsor: Yumiko Ono

# Political Science and Public Affairs

Time: 2:30 PM

Place: McKee Computer Lab

Place: Forsyth 314

Green: The Economic and Political Perspectives on

Alternative Energy

Student Presenter: Mitchell Rosewall\* Faculty Sponsor: Chris Cooper

# College of Business

# Business Administration and Law and Sport Management

Time: 10:10 AM Place: Forsyth 314

Child Abuse and Neglect and the Impact on a

Child's Academic Performance Student Presenter: Erin Keenan Faculty Sponsor: Lorrie Willey

Time: 11:15 AM

The Chef's Special

Student Presenter: Megan Nantel Faculty Sponsor: Lorrie Willey

# **Education and Allied Professions**

# Elementary & Middle Grades Education

Time: 11:15 AM Place: Killian 114 Are Charter Schools Killing Public Schools? Student Presenter: Amanda Roberts

Faculty Sponsor: Pamela Buskey

# Health, Physical Education and

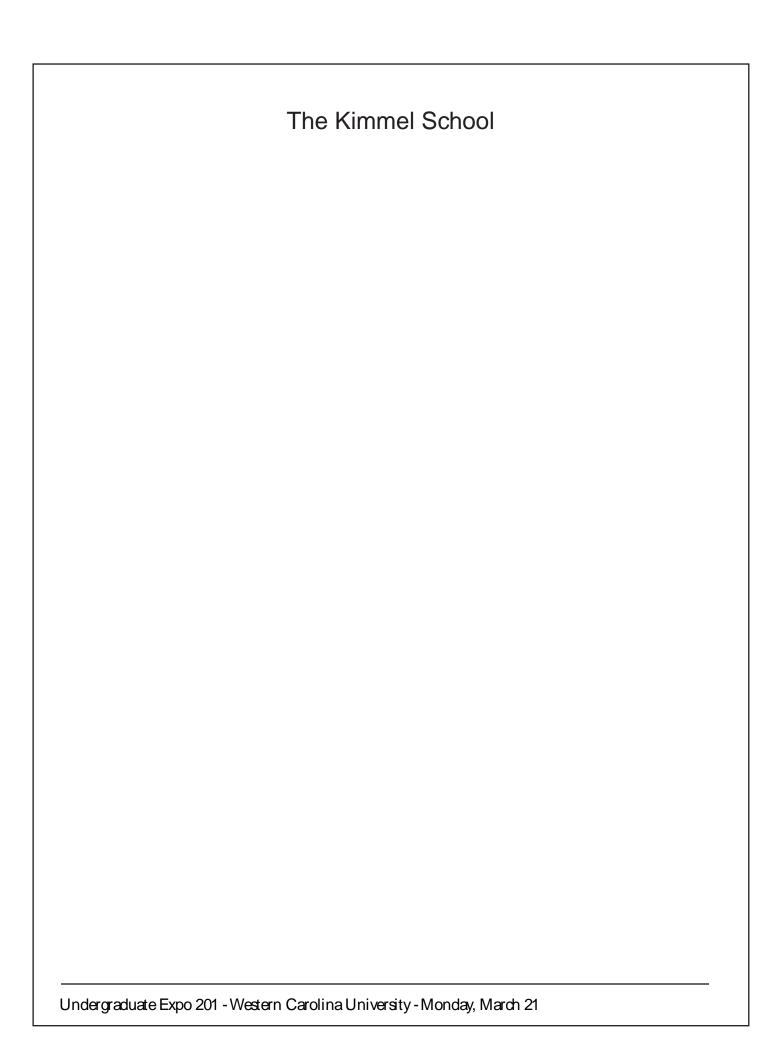
Recreation Place: Reid 122H

Time: 11:15 AM Xtreme Sports Research

Student Presenter: Nate Christian, Troy Adams, Phillip Yarborough, Saunders Southecorvo

Faculty Sponsor: Ben olkes

ime: 11:35 AM			



# Tuesday, March 22, 2011

# College of Arts and Sciences

# Chemistry & Physics

Time: 3:00 PM Place: Natural Sciences 208 Antimicrobial Agent from a Pseudomonas sp. Strain from the Great Smoky Mountains National Park

Student Presenter: Rachel M. Bleich Faculty Sponsor: Jason Clement

English

Place: Coulter 304 Time: 1:00 PM

You Rememory Me?: The Role of the Past in Toni

Morrison's Beloved

Student Presenter: Elizabeth Nissly\* Faculty Sponsor: Annette Debo

John Keats, the Apothecary Surgeon of "Ode to a

Nightingale"

Student Presenter: Taylor Fie\* Faculty Sponsor: Brent Kinser

Santiago's Ascension: Mortality and Transcendence in Hemingway's The Old Man and the Sea Student Presenter: Andrew M. Benton

Faculty Sponsor: Brent Kinser

Time: 2:15 PM *Prolusion I* 

Student Presenter: Abigail Isom Faculty Sponsor: Mimi Fenton

Prolusion I: Blindness is Preferable to Sight
Student Presenter: Anne Catherine "Kate"

McRae

Faculty Sponsor: Mimi Fenton

Is God A Tyrant: a Miltonic Prolusion Student Presenter: Tabatha Bishop Faculty Sponsor: Mimi Fenton

Time: 3:30 PM

John Milton's "A Masque": Virtue, Wisdom, and

Contemplation

Student Presenter: Kimberly Waddell Faculty Sponsor: Mimi Fenton

John Milton and "Il Penseroso" Student Presenter: Erik Freitas Faculty Sponsor: Mimi Fenton

Satan is America: John Milton, Thomas Jefferson,

and the Foundation of a New Republic

Student Presenter: Christopher Rollins, Travis

Mullen

Faculty Sponsor: Mimi Fenton

Time: 4:45 PM

The Dark Side of Humanity

Student Presenter: Joanna Andrews

Faculty Sponsor: Laura Samal

Little Miss Perfect

Student Presenter: Jessica Presnell Faculty Sponsor: Margaret Bruder

Understanding Culture Through a Personal Artifact

Student Presenter: Allison Dixon Faculty Sponsor: Margaret Bruder

# Philosophy and Religion

Student Recipient: Stephanie Bridges, Emily Marie Elders, Bethany Barton, Paul Horton, Molly Metz, Ryan Rutledge, Amber Shipp,

Bethany Ketting (mentor)

Faculty Sponsor: John Whitmire

### Political Science and Public Affairs

Terrorism: The Causal and Intrinsic Relationship to

Corruption

Student Recipient: Hayden Smith Faculty Sponsor: Nial Michelsen

# Psychology

Can the Necker Cube Measure Attention

Student Recipient: Christopher J Macemore

Faculty Sponsor: Windford Gordon

#### School of Health Sciences

Various Topics

Student Recipient: Heather Brown, Andrea Kaufman, Brandi Anders, G. Britton Harper,

Ashley Bracken

Faculty Sponsor: JII Manners

Potential Use of an Ozone Generator to Improve

Air Quality in Unoccupied Spaces

Student Recipient: Amanda McQueen

Faculty Sponsor: Burton Ogle

Various Topics

Student Recipient: Heather Brown, Emily

Whittington, Britton Harper Faculty Sponsor: JII Manners

WCU Nutrition Habits Survey Results

Student Recipient: Kyrie Carlson, Rebekah

Fortney

Faculty Sponsor: April Tallant

NCDA research projects

Student Recipient: Krystal Arrington, Nancy Belk, Sarah Brown, Frances Childers, Chloe Green, Mary Hackney, Whitney Hinceman, Eli Hipps, Caroline Holland, David Lightner, Annie Pauley, Rebecca Rolon, Melinda Toler, Choua Vue Faculty Sponsor: Wayne Billon, Susan Bogardus

Application of a Microfluidics-based platform (Agilent BioAnalyzer) for the molecular identification of closely two related mosquito species (Aedes atlanticus and Aedes tormentor)

Student Recipient: Virginia Hopkins

Faculty Sponsor: Brian Byrd

### School of Music

Bach Prelude and Fugue in A Minor and Beethoven Egmont Overture

Ctudent Decinient

Student Recipient: Candice Boling,

Jeff Bowman, Kayla Chipley, Savannah Forest, Andrew Gore, Mat McChargue, Elizabeth Priode, Tori Roach, Amy Shuford, Whitney

Stewart, Avery Surratt

Faculty Sponsor: Travis Bennett

North American Saxophone Alliance, Region VI

Conference Master Class Performance

Student Recipient: Delante Randolph, Adam

Wooten, Martin Baker, Ethan King

Faculty Sponsor: Ian Jeffress

The nief-norf Summer Festival 2011

Student Recipient: Gregory Andrew Dills

Faculty Sponsor: Mario Gaetano

# School of Stage and Screen

Too Much To Ask

Student Recipient: Leah Thomas, Mandy Hughes

Faculty Sponsor: Terry Curtis Fox

The Dreaming Tree

Student Recipient: Carey McKelvey, Liz Oslund Faculty Sponsor: Jack Sholder, Terry Curtis Fox,

Arledge Armenake

# Honors College International Travel Grants

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

Study Abroad Wales

Student: Angela Langdon

Study Abroad Amsterdam

Student: Cayli Meitzel

Study Abroad Amsterdam

# The Honors College

Ad vitam paramus

Western Carolina University

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