



*Honors Day Symposium*

**JAMES H. THOMASON LIBRARY  
EDMUNDS HALL  
HARPER CENTER  
HARRINGTON-PEACHTREE**

**APRIL 21, 2016**



PRESBYTERIAN COLLEGE  
IS AN INSTITUTIONAL MEMBER OF THE  
COUNCIL ON UNDERGRADUATE RESEARCH

*Learning Through Research*

## Honors Day Symposium

8:45-9:00 a.m.

Library Reading Room

Welcome  
Robert E. Staton, J.D., D.P.S.  
President, Presbyterian College

9:00-10:00 a.m.

## POSTERS

### Library Reading Room

- Perla A. Alvarado-Vazquez “Induction of an M2 Phenotype in Human Macrophages via CD163 Gene Induction using Nanotechnology”
- Grant H. Beidel “The Physics of Braiding”
- Ashlyn B. Bordelon “Persistence of Avoidance Behavior in Defeated Male Syrian Hamsters
- Robert T. Davis “The Construction and Maintenance of a Scanning Electron Microscope”
- Sydney M. Fontenot “A Study of the Dendroclimatic Signal of White Oak (*Quercus alba*) Compared with the Palmer Drought Severity Index”
- Sara Walden Hanna “Singing as Therapy for Cognitive Communication Impairments”
- Michael P. Harris “Assessment of the Peer-Assisted Learning Resource Center for Introductory Biology Students at Presbyterian College”
- Laura C. James & Taylor C. Berry “The Gendered Portrayal of Inanimate Characters in Children’s Books”
- Wanai S. Kum “Induction of P-glycoprotein in Colorectal Cancer Cells with Fexofenadine”
- Gabriela J. Lewis “Spent Oyster Mushroom Substrate (SOMS) Inhibits Conversion of Seed Energy Stores to Seedling Biomass in *Phaseolus vulgaris* (the common bean)”
- Anna G. MacGregor “The Palynology and Biostratigraphy of the Lower Permian Alfredo Wagner Locality, Santa Catarina Brazil”
- Matthew P. Mitchell “Operation Paperclip”
- Nicole Siciliano & Lisa Gibbs “Induction of P-glycoprotein in Caco-2 Cells”

## *Honors Day Symposium*

9:00-10:00 a.m.

### **HP 214**

#### **Revolutionary Mexico\***

**Presider: Jaclyn A. Sumner, Ph.D.**

Travis B. Carn

“Mexican Lives, American Ordnance: Pancho Villa and the Mexican Revolution”

Tyler D. Fagan

“Bibles, Bandoliers, and Borders: An Analysis of U.S. Involvement in the Cristero Rebellion”

### **HP 209**

#### **The Vietnam War through Media and Film**

**Presider: Michael A. Nelson, Ph.D.**

Laura C. Nickles

“Tet: The Peak of the Credibility Gap”

Anthony D. Dickey

“Soldier Boy: The Highs and Lows of Vietnam Veterans in Film”

Allie R. Cobb

“Men as Animals and Women as Play-Things: The Vietnam War According to Hollywood”

10:05-11:05 a.m.

### **Library 39**

#### **Memory and Body Ideals\***

**Presider: Karen W. Buckland, D.M.A.**

Erin E. Ruff

“The Influence of Body Ideals on Athletes and Body Attraction”

Kayla A. Stanford

“What Did I Just Say? An Investigation into Memory Processes during Speech Production, a Pilot Study”

### **Library 54**

#### **In Search of Better Health\***

**Presider: Suann Yang, Ph.D.**

Rachel C. Duncan

“Using Sharkskin-Inspired Surface Material to Minimize Bacterial Growth”

William B. Irick

“The Effects of *Yersinia pestis* on Prairie Dogs and Prairie Ecology in Western North America”

### **Library Reading Room**

#### **Environmental Issues**

**Presider: Robert A. Bryant, Ph.D.**

Eilis A. Gehle

“Minority Individual’s Environmental Concern in the United States”

Mahene E. Lewis &  
Cassidy Davis

“Fractals in Nature”

Jonathan M. Archer &  
Cory L. White

“The Effect of Paint on Wood Weathering”

Denzel R. Brown

“Space Weather Influences on Human Physiology”

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\*30 minute presentations

## Honors Day Symposium

10:05-11:05 a.m.

### Library 214

#### **The Mill Memory Project** **Presider: Lesley Preston, M.F.A.**

- Jillian R. Collier “The Robert Mercer Vance Collection: Archives of the Textile Mill Memory Project”
- Olivia J. Aldridge “‘It Was Hard Work, but It Was Family’: Examining Womanhood in the Laurens County Mills through Oral History”
- Kelly M. Cichon “Archival Images and Contemporary Photographs as Theatre Design Vocabulary and Dramaturgical Research”
- Allison Cooke “Geocaching and Interactive Mapping in the Textile Mill Memory Project: A Digital Humanities Project”

### HP 214

#### **Cultural Change in Mexico\*** **Presider: Jaclyn A. Sumner, Ph.D.**

- Lisa A. McIsaac “Day of the Dead: A Modern Descendent of the Aztecs”
- Conner J. McCoy “Ballads of the Drug Trade: Narcocorridos and Counterculture in Mexico”

### HP 209

#### **Protesting the Vietnam War at Home** **Presider: Michael A. Nelson, Ph.D.**

- Robert S. Dennis “Bombs Away: Radical Anti-War Protesters of the 1960's and 1970's”
- Vernon J. Peterson “Southern Protest: The Vietnam Protest on Southern College Campuses”

11:10 a.m.-12:10 p.m.

### Library 39

#### **Understanding Natural Processes\*** **Presider: Evelyn J. Swain, Ph.D.**

- Matthew J. Treaster “Characterization of the Mitochondrial Pyruvate Carrier in *Saccharomyces cerevisiae*”
- Emily C. Phillips “Autism Spectrum Disorder and Gut Dysbiota”

### Library 54

#### **Film and Music\*** **Presider: J. Justin Brent, Ph.D.**

- Erika L. Gotfredson “‘This Tomboy Thing’: The Cultural Lag in Cinematic Depictions of Female Team Sport Athletes”
- Sara Walden Hanna “Singing as Therapy for Cognitive Communication Impairments”

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\*30 minute presentations

# *Honors Day Symposium*

**11:10 a.m.-12:10 p.m.**

## **Library Reading Room**

### **Models and Patterns**

**Presider: Eli T. Owens, Ph.D.**

William R. Christenbury III “Physics Demonstrations using Synchronous Detection”  
& Malachi I. Koenig

Minhahn T. Pham “3D Prosthetic Modeling: A Study in Complementary Biomechanics and Electromechanics”

Brien T. Washington “Coronal Mass Ejection Relationships”

Cody A. Creech & Denzel R. Brown “Computer Simulation of Granular Systems”

## **Library 214**

### **Family and Gender Issues**

**Presider: Clinia M. Saffi, Ph.D.**

Caroline J. Blankenship “Attachment in Sibling Pairs: When Close Bonds Lead to Co-Rumination”

C. Edward Britt “Household Influence on Educational Attainment”

Ryan A. Paquette “A History of Gender Binarism in the DSM”

Julianna G. Franklin “La Conquista Sexista y su Legado: El Trato de los indígenas en la Historia y la Sociedad de México”

## **HP 214**

### **Challenges for Modern Mexico\***

**Presider: Jaelyn Sumner, Ph.D.**

Devron J. Glenn “The Rise of Subcomandante Marcos and his Zapatista Army of National Liberation”

Samantha K. del Toro “Bloodstained Pesos: Government Corruption and the Mexican Drug Trade”

## **HP 209**

### **Vietnam and the Larger War**

**Presider: Michael A. Nelson, Ph.D.**

Ashley E. Miles “America’s Children Left Behind: The Amerasians of Vietnam”

Joel K. Roberts “My Lai and Wounded Knee: Two Massacres Committed by the United States of America”

Jacob P.B. Brannon “The Forgotten Actor of the Vietnam War: How the Vietnam War funded South Korea’s ‘Miracle on the Han’”

**12:10-1:10 p.m.**

**Lunch Break**

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\*30 minute presentations

## Honors Day Symposium

1:15-1:45 p.m.

### Keynote Address

### Edmunds Hall

1:15-1:45 p.m.

Introduction

Donald R. Raber II, Ph.D.  
Provost

“Celebrating the Hospitality towards Curiosity”  
Alfonso Romero-Sandoval, M.D., Ph.D.  
Associate Professor of Pharmaceutical Sciences  
Director of Research  
2015 Faculty Scholarship Award Winner

1:50-2:50 p.m.

#### Library 39

#### **Improving Life\***

**Presider: Brian P. Reese, M.S.**

Ryan C. Blake

“Synthesis of the N-heptylpantothenamide Siderophore-conjugated Antimicrobial for the Treatment of *Staphylococcus aureus* Topical Infections”

Austin D. Allen

“Work-Life Balance”

#### Library 54

#### **Religion\***

**Presider: Jay L. Michaels, Ph.D.**

Christine A. Darracott &  
Sophie M. Cobb

“Can Your Cognitive Style Influence Your Faith? Religiosity's Association with Cognitive Flexibility and Action Identification”

Sophie M. Cobb &  
Christine A. Darracott

“The Interaction between Cognitive Processes and Spirituality”

#### Library 214

#### **Acoustics, Music, and Literature**

**Presider: Elizabeth Lilly, Ph.D.**

Brittany R. Beasley

“Shakespeare's Influence on Gustavo Adolfo Bécquer”

Benjamin C. Cagle

“Granular Acoustics through Interfaces”

William M. Grismore &  
Eddie L. Alford

“Acoustic Investigation of Buried Objects”

Musashi J. Briem

“Fractal Music”

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\*30 minute presentations

## *Honors Day Symposium*

1:50-2:50 p.m.

### **HP 214**

### **International Politics and Foreign Policy**

**Presenter: Justin E. Lance, Ph.D.**

Ryan A. Bristow	“Things Are Heating Up: The Impact of Presidential Policies on Climate Change”
Jacob R. Evans	“Freedom Fisheries: A Global Review of the Impact of Freedom on Fisheries’ Sustainability”
Hayley N. Potter	“Conflict and Its Impact on Women’s Representation in Developing Countries”
Steven A. Wohlrab	“An Analysis of the Relationship between Americans’ Party Identification and Attitudes towards Normalizing U.S.-Cuban Relations”

2:00-4:00 p.m.

## **SENIOR ART PROJECTS**

### **Harper Center Gallery**

Shonquille Byers

Melissa Coward

Sarah Downie

Ben Roach

Yvette Whiteman

\*30 minute presentations

## Honors Day Symposium

2:30-3:20 p.m.

### MUSIC HONORS RECITALS

#### Edmunds Hall

Edgar L. Alford, junior	Guitar
Seth M. Brown, junior	Doublebass
Lindsey E. Gardner, senior	Soprano
Sara Walden Hanna, senior	Soprano
Gabriela J. Lewis, senior	Cello
Collin J. McKinnon, freshman	Cello
Emlynn L. Shoemaker, sophomore	Mezzosoprano
Hannah M. Taylor, senior	Soprano

2:55-3:55 p.m.

#### Library 39

#### **Fear, Indecision, and Conflict\*** **Presider: Brooke C. Spatta, Ph.D.**

Destiny A. Willis	“Retention of Conflict-Induced Avoidance Behavior in Male Syrian Hamsters”
Ashlyn B. Bordelon	“Type D Attachment in Adolescents”

#### Library 54

#### **Braiding and Coloring\*** **Presider: Kara L. Shavo, Ph.D.**

Abigail M. Waldron	“Coloring Graphs”
Diego Manzanias & Christopher M. Sacco	“Analysis of Rope Braiding”

#### Library Reading Room

#### **Improving Models and Processes** **Presider: James T. Wetzel, Ph.D.**

Kathryn E. Richardson	“Coaching Cues on Motivation and Athletic Performance”
Nancy M. Fanous	“Jenga: Building and Construction”
Lauren M. Denton & Sydney Ronzulli	“Gene Expression in the Anabolic and Catabolic Metamorphosis of <i>Rana catesbiana</i> ”
Taylor R. Davidson	“Sidewall Forces on Grain Silos “

\*30 minute presentations



# Honors Day Symposium

2:55-3:55 p.m.

## **Library 214**

### **Spanish Identity Issues\*** **Presider: Sharon E. Knight, Ph.D.**

Brittany R. Beasley “La Imaginación, la Historia y la Identidad Nacional en las *Leyendas* de Bécquer”

## **HP 214**

### **Rhetoric and Candidate Image in American Politics** **Presider: Erin S. McAdams, Ph.D.**

Robert S. Dennis “Fire-Eating in Contemporary America: The Incendiary Rhetoric of the 2016 Presidential Primary Campaign”

Jesse J. Glasgow “Live from New York, It’s Political Bias: Saturday Night Live and Party Politics in Presidential Elections”

Acey L. Palmer “The Gift of Gab: An Analysis of the Presidential Rhetoric Used in Correlation to the War on Drugs”

Robert D. Willm “A (Fe)Males Game: A Comparison of Gender Stereotypes and Image in Congressional Campaign Ads”

**Carolina Undergraduate Social Sciences Symposium**

**Keynote Address**

“Teaching New Dogs New Tricks:  
Training the Health Professions to do Alcohol and Drug Screening and Brief Intervention”

**J. Aaron Johnson, Ph.D. (PC '93)**

**Associate Professor  
Augusta University**

The Carolina Undergraduate Social Sciences Symposium will continue on Friday, April 22.

*Honors Day Symposium*

Robert H. Freymeyer, Ph.D., Organizer and Program Chair  
Justin E. Lance, Ph.D., Editor, Abstract Book