



*Honors Day Symposium*

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

**APRIL 24, 2014**



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**  
**Claude C. Lilly, Ph.D.**  
**President, Presbyterian College**

9:00-10:00 a.m.

**Library 39**

**Impacts on Behavior\***  
**Presider: Claude C. Lilly, Ph.D.**

Margaret Carson &  
Kate Leitner

“Post-Conflict Behavior in the Male Syrian Hamster”

Stephanie E Allen &  
Victoria N. Lopez

“The Impact of Auditory and Visual Distractors on Task Performance”

**Library 54**

**Novel Syntheses\***  
**Presider: Suann Yang, Ph.D.**

Floyd M. Nicholson &  
Ashton M. Avent

“The Preparation of 2-Pyridyl-2’-(4-*tert*-butyl-thiazolyl)amine”

Brett S. Fowler, Merrill C.  
Still, & Robert Y. Beesburg

“Development of Siderophore-Conjugated Antimicrobials”

**Library Reading Room**

**The Victorian Age; The Struggle Toward Modernity**  
**Presider: Jerry Alexander, Ph.D.**

Cameron R. Brock

“Suffering and Misery in *Wuthering Heights*”

Danielle F. Jolly

“The Need to Confess: Robert Browning’s Dramatic Monologues”

Patrick M. Justice

“Marriage as a Socioeconomic Necessity: *Wuthering Heights*”

Meghan Mast

“Elizabeth Barrett Browning: Slavery, Feminism, and Empowerment”

**Library 214**

**Medical and Health Issues**  
**Presider: James Wetzel, Ph.D.**

Arathi A. Pillay

“HPV 16 Integration in Cervical Lesions Associated with Cervical Intraepithelial Neoplasia”

Mariana Anderson

“Analysis of Ecological Factors that Influence the Gut Bacterial Communities of Fish”

Edna Holliday

“A Systematic Literature Review Assessing the Directional Impact of Managed Care Formulary Restrictions on Medication Adherence, Clinical Outcomes, Economic Outcomes, and Health Care Resource Utilization”

Antarius Terrell

“The Role of Alcohol and Its Influence on Drug Use”

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\*30 minute presentations

## *Honors Day Symposium*

9:00-10:00 a.m.

### **HP 207**

#### **Partianship, Ideology and Polarization**

**Presider: Erin McAdams, Ph.D.**

- Adam Bradshaw "Revisionist Theory of Part Sorting"
- Justin Smith "Polarization and Congressional Approval Ratings"
- Brad Zebedis "Ideology and Supreme Court Justices' Interpretation"
- Bryan Shepherd "Pocketbook Voting, Sociotropic Voting and Prospective/Retrospective Trends in Recent Elections: Change in Politics or Change in Pockets?"

### **HP 214**

#### **Latin American Revolutions I\***

**Presider: Patrick H. Cosby, Ph.D.**

- Laura Nowell "Haitian Culture and Mardi Gras: Race, Religion, and Gender in the Jazz Age"
- Fred Marshall "The Black Revolution: The One That Everyone Wished They Could Ignore"

### **HP 209**

#### **History of Modern India I\***

**Presider: Roy B. Campbell, Ph.D.**

- Mary Trimpe "The English Education Act of 1835: The Origin of Indian Nationalism"
- Richard Taylor "The Singapore Mutiny and its Effects on Nationalism and Home Rule"

10:05-11:05 a.m.

### **Library 39**

#### **Analyzing Sports\***

**Presider: C. Clinton Harshaw, Ph.D.**

- Gonzalo Asis "The Effect of Rule Changes on Competitive Balance in NHRA Professional Classes as Measured by the Gini Coefficient and the Resulting Lorenz Curve"
- Andrew Kocis "Presbyterian College Athletics in the Division I Era"

### **Library 54**

#### **Ecological Issues\***

**Presider: Jeffery Grim, Ph.D.**

- K. Rachael Parks "Metagenomics Indicate that Microbial Communities of Fish Guts Vary by Both Trophic Level and Habitat"
- William Moore "Multivariate Statistical Analysis Reveals Effect of Genotype and Environment in Maize Microbiome Composition"

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\*30 minute presentations

# Honors Day Symposium

10:05-11:05 a.m.

## **Library Reading Room**

### **The World of Art Presider: Laura Crary, Ph.D.**

- Margaret L. Richardson “Iranian Women Artists”  
Madeline Taghon “Naked Expectations”  
Taylor E. Stacy “The Shadow of Artemisia Gentileschi”  
Joshua K. Polk “Women, When Will they Receive their Respect”

## **Library 214**

### **Self-Worth and Self-Esteem Presider: Brooke Spatta, Ph.D.**

- Lucia M. Leahy “Peer Group Behaviors and Global Self-Worth: Investigating Adolescents’ Global Self-Worth, Internalizing Behaviors, and Externalizing Behaviors”  
Ashley Norton “Dynamics in Psychology: The Interaction between Self-Esteem and Self-Control”

## **HP207**

### **Public Policy in the United States Presider: Booker T. Ingram, Ph.D.**

- Nathan Crocker “Impact of Drug Policies since 1980’s War on Drugs”  
Laura Leigh Fox “¡Votar Aquí!” vs. “Vote Here!”: State Language Policies’ Effect on Latino Voter Registration and Turnout in the United States of America”  
Jordan Archer “Race, Poverty, and Healthcare in the United States”  
Robert Monroe “Religion and the Death Penalty”

## **HP 214**

### **Latin American Revolutions II\* Presider: Patrick H. Crosby, Ph.D.**

- David Mruz “Haitian Hegemony: The Spiritual Pact of Papa Doc and the People”  
Zachary T. Furr “Ecology and Ski Masks: Environmentalism in Mexico’s Chiapas Rebellion”

## **HP 209**

### **History of Modern India II\* Presider: Roy B. Campbell, Ph.D.**

- Christy Schofer “Annie Besant: The Impact of a Woman and Her Religion on India”  
Jean Fulghum “The English Perspective on the Amritsar Massacre”

## *Honors Day Symposium*

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

### **Library 39**

Aftereffects\*

**Presider: J. Alicia Askew, Ph.D.**

Harrison Hopkins

“Racial Bias Following Natural Disasters”

Margaret Carson &  
Sarah Gardner

“Effect of Defeat Duration on Avoidance and Anxiety-like Behavior in the Syrian Hamster”

### **Library 54**

Targeted Reactions\*

**Presider: Latha Gearheart, Ph.D.**

Lanie Brisben

“Probiotics in the Metabolism of Gluten”

Stephanie Dohmeier &  
Holly Tindal

“The Effect of Gold Nanoparticle Size on the Relaxation Rate of Supercoiled DNA in the Presence of Topoisomerase I”

### **Library Reading Room**

Truly Green

**Presider: Chad Rodekohr, Ph.D.**

Joshua A. Hoffbauer

“The True Green Project: Building a Friendly Energy Consumption Model for Refrigerators”

Joshua A. Hoffbauer &  
Michael Porter

“The True Green Project: Testing the Refrigerator Energy Consumption Model”

Paul H. Sanders &  
Grayson Mills

“The Study of Energy Saving Light Sources”

Paul H. Sanders

“The True Green Project: Household Heat Flow and Air Conditioners”

### **Library 214**

Gender and Social Issues

**Presider: Emily Taylor, Ph.D.**

James B. Barnes

“The Effects of Gender Roles on Gun Ownership”

Sterling Jenkins

“The Stepping Stone to Adolescent Pregnancy”

MaryBeth Schaffner

“Absurd Masculinities: Constructing Masculinity in Samuel Beckett’s *Waiting for Godot* and Harold Pinter’s *The Dumb Waiter*”

Mary Catherine Heard

“Roman Women in Politics in the Early Empire Period”

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\*30 minute presentations

## *Honors Day Symposium*

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

**HP 207**

**Inequality and Conflict**

**President: Justin Lance, Ph.D.**

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|------------------|--|
| Stewart Thomas   | “Correlation of State Legislative Power on Inequality”           |
| Christopher Hall | “The Effects of Democratization on Poverty in African Countries” |
| Joseph Barakat   | “No Surrender: Evangelical Intractability in the Irish Troubles” |
| Daniel Jenkins   | “The Impact of Age on Public Opinion on Women in the Military”   |

**HP 214**

**Latin American Revolution III\***

**President: Patrick H. Cosby, Ph.D.**

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|------------------|--|
| Mary Alice Reed  | “Women in the Zapatista Rebellion”                               |
| Dillard Stephens | “The Guatemalan Genocide: Hidden Agendas and Underlying Motives” |

**HP 209**

**History of Modern India III\***

**President: Roy B. Campbell, Ph.D.**

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|-------------------|--|
| Elizabeth Langley | “The View of General Dyer’s Punishment and Its Effect on Politics in India and Great Britain”                |
| Jacob Rogers      | “Cricket, Colonialism, and Community: How Cricket Reflected the Socio-Political Realities of Colonial India” |

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

**Lunch**

**Keynote Address**

**Edmunds Hall**

**1:15-1:45 p.m.**

Introduction

Donald R. Raber II, Ph.D.  
Provost

“TIME: The Importance of Mentorship and Student Research”  
Sarah Sweitzer, Ph.D.  
Associate Professor of Pharmaceutical Sciences  
Director of Research  
2014 Faculty Scholarship Award Winner

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\*30 minute presentations

## POSTERS

### Library Reading Room

Sarah Beasley	“Alterations in the FCD1 Gene of Breast Tumors”
Taylor C. Figura	“Decoding the Military: Dramaturgy of Kimberly's Flight”
Rachel Hartman	“Are Compounded Pain Gels Efficacious? The <i>in vitro</i> and <i>in vivo</i> Testing of Compounded Pain Gels Porcine Skin and a Formalin Pain Model”
Brooke N. Harrington	“A Novel Method for Screening and Typing of HPV in the Oral Cavity”
Bailey Hill & Candler Paige	“Assessment of Pro-Inflammatory Factor Expression on Human ThP-1 Macrophages”
Marina Leon & Candler Paige	“Assessment of Potential <i>in vitro</i> Toxicity of Nanoparticles (Mannosilated Polyethylenimine) on THP-1 Macrophages”
Rebecca Miller	“Testing Dendroclimatology”
Rachael Parks & Harry Hicklin	“Who’s Listening in? A Scientific Assessment of the Bacteria on iPhones”
Samantha Hill & Jean White	“Analysis of Human Chorionic Gonadotropin Diet Products”
Kayla Lewis	“Activation of Spinal Cord Neurons in a Rodent Model of Sickle Cell Vaso-occlusive Crisis”
Lauren M. Linder	“Use of Intravenous Haloperidol in an Inpatient Setting: A Literature Review and Survey of Healthcare Professionals”
Casey Mabus & Lauren M. Linder	“Use of Prescriptions Stimulants among Students in Healthcare Training Programs: A Survey of PharmD Candidates”
Donna D. Shuler & Estefany C. Medina	“Which Gum Is most Effective in Killing the Bacteria <i>Staphylococcus Epidermidis</i> ?”
Sherece Smith & Lucia Leahy	“Is Perceived Athletic Competence Beneficial to Adolescents?”
Stephanie A. Smith,	“Impact of Health Literacy in a Diabetes Self-Management Education (DSME) Program”
Karlee Tate	“Parental Influence on Political Party Attitudes”

## *Honors Day Symposium*

1:50-2:50 p.m.

### **Library 39**

#### **Political Issues**

**Presider: Terry Barr, Ph.D.**

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|-------------------|-----------------------------------|
| Jaime C. Beamish  | “Dynamics of Political Attitudes” |
| Shelby Harris     | “De Doctor a Revolucionario”      |
| Frances C. Hainey | “For the Love of Politics”        |
| Zackary T. Furr   | “Beyond Demons: The Huns”         |

### **Library 54**

#### **Rope Strength**

**Presider: John Inman, Ph.D.**

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| Pravin Gurung, Forest Deans, & J. E. Satterfield | “Experimental Study of Young’s Modulus of a Kevlar Yarn”            |
| Pravin Gurung                                    | “Analytic and Empirical Analysis of Rope Braiding”                  |
| Hannah Carson                                    | “Tin Whisker Growth versus Stress and IMC Evolution”                |
| Hannah Carson & Jennifer Lockman                 | “Morphologies of Sn Whiskers during Accelerated Growth Experiments” |

### **Library 214**

#### **Religion, Athletics, Performances**

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

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|-----------------|---|
| Andrew Hane     | “Early Christian Honor for Life”  |
| Ryan Wasilewski | “Religiosity and its Affect on Opinions of Voluntary Euthanasia”                                    |
| Jacob Rogers    | “The Last Enemy: Myth and the Afterlife in the Literature of C.S. Lewis and J.R.R. Tolkien”         |
| Bryan Shepherd  | “Action Identification and the Elite Athlete: How Mental Framing Influences Athletes’ Performances” |

### **HP 214**

#### **Latin American Revolutions IV\***

**Presider: Patrick H. Crosby, Ph.D.**

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|--------------------|---|
| Sara Lawton Elmore | “The Sinaloa Cartel: Mysticism, Culture, and Community” |
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### **HP 209**

#### **History of Modern India IV\***

**Presider: Roy B. Campbell, Ph.D.**

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| Margaret Fleming, | “Mirabehn: Gandhi's Disciple and Political Activist for India” |
| Mason Dunlap      | “Political Success or the Fight for Untouchables' Freedom?”    |

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\*30 minute presentations



## *Honors Day Symposium*

2:00-4:00 p.m.

### **SENIOR ART PROJECTS**

#### **Harper Center Gallery**

Jen Marshall  
Wipawadee Naiyakhun  
Joshua Polk

2:30-3:30 p.m.

### **MUSIC HONORS RECITALS**

#### **Edmunds Hall**

Gabriela J. Lewis	Sophomore, Violincello
Matthew J. Treaster	Sophomore, Violin
Audrey J. Johnson	Senior, Violin
Joshua R. Harrington	Junior, Organ
Zachary W. Wells	Senior, Voice
Laura L. Blanco	Senior, Voice
Elizabeth A. Derrick	Senior, Voice
Tianna M. Smith	Junior, Voice
Cassidy M. Jarrett	Junior, Percussion
Brenda A. Sease	Senior, Horn

2:55-3:55 p.m.

#### **Library 39**

#### **Scientific Advancements\* Presider: Anita Olson Gustafson, Ph.D.**

Heather L. McGowan	“A Social History of Oak Ridge, Tennessee”
Emily K. Hutson	“Utilizing Presbyterian College’s ICP-OES”

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\*30 minute presentations

## *Honors Day Symposium*

2:55-3:55

### **Library 214**

### **End of Life in the Modern Era President: J. Justin Brent, Ph.D.**

Jessica Carriker

“The Death of Death? Redefining Death in Light of Future Technology”

Minhahn Trinh Pham

“Good Grief? Biologically Useless or Evolutionary Benefit?”

Soo-Jin Sung

“The Human Factor in Euthanasia and Assisted Suicide Decisions”

Summer Kennedy

“The Desire for Youth”

4:15

## **Belk Auditorium**

## **Honors Convocation**

### *Honors Day Symposium*

Robert H. Freymeyer, Ph.D., Organizer and Program Chair  
C. Clinton Harshaw, Ph.D., Editor, Abstract Book