

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

APRIL 16, 2015



8:45-9:00	a.m.
U.TJ-7.UU	a.m.

**Library Reading Room** Welcome

Claude C. Lilly, Ph.D.

President, Presbyterian College

9:00-10:00 a.m.

Library 39 Golden Research\*

Presider: Claude C. Lilly, Ph.D.

Paul J. McGannon "Attaching Gold Nanoparticles to Silica Substrates Through Organosilane

Linnkers"

Maria E. Whitaker "Synthesis of Biocompatible Gold Nanorods"

<u>Library 54</u> Changing Conditions\*

Presider: Elizabeth Lilly, Ph.D.

Britnee K. Goldman & Jonathan T. Mitchell

"Four Years of CHAMPS Data: How Has the First Cohort Changed over Time?"

Harrison R. Hopkins "Factors Influencing Racial Bias"

Library Reading Room Literature and Cultural Studies

Presider: Jerry J. Alexander, Ph.D.

Abbie E. Bagwell "Repackaging Mammy: The Evolution of Aunt Jemima and the Mammy Figure in

Popular Culture"

Danielle F. Jolly "Robert Browning's Exploration of Truth in 'The Ring and the Book'"

Cameron R. Brock "Exploring the Chasm: The Dysfunctional Family in Southern Literature"

Helen J. Dennis "Themes Across American Food Literature: A Cultural Consciousness"

<u>Library 214</u> Cultural Issues

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

Austin D. Allen "The Effects of Religion on Parenting Style"

Hannah D. Fulenwider "La inestablidad estética, filosófica y emocional en "Nocturno" de José Asunción

Silva" ("Aesthetic, Philosophical, and Emotional Instability in José Asución

Silva's 'Nocturno'")

Anessa M. Pettis &

Lal K. Tan

"The Invisible World: One Nature Observed Through Different Eyes"

Graham A. Hope "Prestige and Participation in the Environmental Movement"

<sup>\*30</sup> minute presentations

#### 9:00-10:00 a.m.

HP 207 Sand, Silos, and Greedy Math

Presider: James Wanliss, Ph.D.

Ignacio Monchetti "Granular Physics Simulations"

Denzel R. Brown "Acoustic Pulse Transmission through Granular Materials"

Andrew D. Hane & Bryan C. Hopper

"Greedy Algorithms: An Analysis of Their Effectiveness"

James E. Satterfield "Granular Flow into Model Silos"

HP 214 Colonial and Revolutionary America I\*

Presider: Anita O. Gustafson, Ph.D.

Stephen Scaife "The Party that Led to a War: How the British Response to the Boston Tea Party

Caused the American Revolution"

Allston Tillman Warren "Inflammatory Leadership: The Sons of Liberty Prior to the American Revolution"

**HP 209** The Continental Reformation I\*

Presider: Richard R. Heiser, Ph.D.

Abbey Blackwell "Serfdom's Role in the German Peasants' Revolt of 1525"

Justin Campbell "The German Peasants' War of 1525: Causes and Results"

10:05-11:05 a.m.

<u>Library 39</u> Political Issues\*

Presider: Erin S. McAdams, Ph.D.

Mary Kate Bartlett "To Vote or Not to Vote: That is the Question: Comparing Political Engagement

Levels and Voter Registration and Turnout Rates by Generation"

Abigail E. Pearman "The Funding and Objectives of Terrorist Activity"

Library 54 Growth and Transport Processes\*

Presider: Evelyn Swain, Ph.D.

Christopher R. Downey "Determining Behavior of Hxt Glucose Transport Proteins in Saccharomyes cere-

visiae Using Modern Cloning Techniques and Bioinformatics Methods"

Miranda K. McCoy "Effects of Water and Nutrients on Maize Phyllosphere Microbiome Composition"

<sup>\*30</sup> minute presentations

#### 10:05-11:05 a.m.

**Library Reading Room** Cultural Explorations\*

Presider: Clinia Saffi, Ph.D.

Rachel E. Miles "Sor Juana y Guadalupe: Colaboradoras en la creación de la identidad Mexi-

cana" ("Juana and Guadalupe: Collaborators in the Creation of the Mexican Iden-

tity")

Leah C. Mayo "The Scene of Our Girlhood Dreams"

<u>Library 214</u> Making Life Better

Presider: James T. Wetzel, Ph.D.

Hannah D. Fulenwider &

Bailey M. Hill

"Submissive Behavior and Learned Avoidance in Male Syrian Hamsters"

Kristopher Hurley "Workplace Violence and Aggression: Glorified Bullying for Adults"

Taylor N. Patti "Knee Reconstruction"

Cristina Ulecia-Moron "Nanotechnology: A Novel Cell-Directed Gene Therapy to Reduce Inflammation"

HP 214 Colonial and Revolutionary America II\*

Presider: Anita O. Gustafson, Ph.D.

Jeffrey Dean Strickland "The Old Northwest Revival: Native Americans and the Struggle for Independence

in the Northwest Indian War"

Aubrey B. Smith "Causes of the Yamasee War and Relations between the Native Americans

Following the Conflict"

HP 209 The Continental Reformation II\*

Presider: Richard R. Heiser, Ph.D.

Christopher Byrd "Stately Scriptures: Luther's Bible and Its Impact on German National Develop-

ment"

Mary Catherine Heard "How I Dread Preaching on the Estate of Marriage: Martin Luther's Impact on

Marriage and Society"

<sup>\*30</sup> minute presentations

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

<u>Library 39</u> Practices and Behaviors in Organizations\*

Presider: Suzanne J. Smith, Ph.D.

Madison A. Smith "Diminishing Differences: The Impact of Gender on Judicial Behavior in Family

Court Decisions"

Hendrik S. Hagedorn "The Impact of Human Resource Practices on Innovation"

<u>Library 54</u> Developing Better Treatment Methods\*

Presider: Julia Wilkins, Ph.D.

Jaron L. Pettis & Jeremy D. Mitchum

"Development of a Siderophore-Conjugated Pantothenamide Antimicrobial Drug"

Jada A. Suber "Isolation and Characterization of the Glycated HDL subfraction in Type 2

Diabetes Patients"

**Library Reading Room** Interactive Theater

**Presider: Lesley Preston, MFA** 

MaryBeth C. Schaffner "Brecht, Boal, and Beyond: An Interactive Presentation"

<u>Library 214</u> Political and Social Issues

Presider: Brian Reese, M.S.

Laura A. Nix "The Psychology of Politics: Dynamics of Ideological Self-Identification"

Emory E. Ward "Social Class Influences Parenting Style"

Jill N. McLean "The Media and Political Participation"

Hannah D. Fulenwider &

**Destiny Willis** 

"Defeat Frequency and Learned Avoidance in Male Syrian Hamsters"

HP 214 Colonial and Revolutionary America III\*

Presider: Anita O. Gustafson, Ph.D.

Rachel Jane Gundaker "Witchy Women: The Salem Witch Trials and the Influence of Colonial Society"

LaQua Mayes "The Columbian Exchange: A New Tasteful Cuisine"

HP 209 The Continental Reformation III\*

Presider: Richard R. Heiser, Ph.D.

James D. George "The Impact of Calvin's Theology on Capitalism"

### 12:10-1:10 p.m. Lunch

<sup>\*30</sup> minute presentations

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

# **Keynote Address**

### **Edmunds Hall**

**1:15-1:45 p.m.** Introduction Donald R. Raber II, Ph.D.

**Provost** 

"Why Do Research" Stuart Gordon, Ph.D.

Associate Professor of Biology

2015 Faculty Scholarship Award Winner

1:50-2:50 p.m.

### **POSTERS**

#### **Library Reading Room**

Lauren E. Berkey "A Tooth Microwear Analysis of Fossil and Recent Herbivores"

Denzel R. Brown "Satellite Remote Analysis of Fractal Patterns"

John Mark Dias, II "Drug Diversion in the Operating Room: Exploring Novel Techniques of Diversion

Detection"

Pravin Gurung "Exploring the Complexity of Space Weather Using 210 mm Data"

Bailey M. Hill "Cytokine mRNA Levels in Macrophages Over Expressing CD163"

<sup>\*30</sup> minute presentations

# **POSTERS** (continued)

Mary Kathryn Johns "Do Plant Stem Heights Influence Pollinator Foraging Behavior"

Nadia I. Jubran "Economic Impact of Pharmacist Services in the Community Setting"

Joshua K. McCormick "Using Artificial Neural Networks to Rate Disease Severity in Maize Infected with

Artificial Neural Networks to Rate Disease Severity in Acidovorax avenae sub-

species avenae"

Jonathan T. Mitchell & Britnee K. Goldman

"A Longitudinal Study of Self-Concept in CHAMPS Students"

Mallory L. Moore &

Tara Tootle

"MTM Hybrid Course Improves Student Self-Efficacy in Performing Medication

Therapy Management Services (MTMS)"

Billy Joe Mullinax "Brazilian Flora of Santa Catarina from the Upper Carboniferous Early Permian

Time Period"

Lynne J. O'Donoghue "Upregulation of Cancer Genes in Breast Tumors with FGD1 Expression"

Rachel Fu-Min Sealover "Brain Science, Statistical Physics, and English: Assessing the Language of

Complexity"

Katlyn E. Sepsey "Tree Characteristics that Affect the Distribution of Mistletoe on Presbyterian

College's Campus"

Cassandra M. Walker "The Effect of Drought Conditions on Complex Information Exchange in Soil

Medium of Phaseolus lunatus"

Alexandria V. Yarborough "Emerging Telepharmacy Practices: Guidance from the Past and Opportunities for

the Future"

<sup>\*30</sup> minute presentations

#### 1:50-2:50 p.m.

<u>Library 39</u> Developmental Issues\*

Presider: Suann Yang, Ph.D.

Billy Joe Mullinax "dFOXO Overexpression Can Ameliorate Age-Related Degeneration of Heart

Performance in Drosophilia"

Emily M. May "A Microscopic Study of the Gonad Development within Viviparous Fish, *Poecilia* 

latipinna and Xiphophorus maculatus, when Exposed to Triclosan"

<u>Library 54</u> Modern Genres and Interpretations in Literature\*

Presider: J. Justin Brent, Ph.D.

J. Christopher Byrd "Now begin the terrors: now begin the marvels': The Sacred and Secular Grail in

the Twentieth Century"

Paul B. Rice "A Legend of the New Frontier: The Transformed Figure of the American Hero in

Douglas Fairbanks' Silent Films"

<u>Library 214</u> Gender, Race, and Ideology

Presider: Jay L. Michaels, Ph.D.

Laura A. Nix "Dynamics of Political Attitudes"

Lesley A. Nelson "Impacts Regarding Family Structure and Function Changes"

Demarcus A. Rouse "Impact of Race and Gender on Education"

Donelle L. Williams "Impact of Race and Gender on Socioeconomic Status"

HP 214 Colonial and Revolutionary America IV\*

Presider: Anita O. Gustafson, Ph.D.

Lovey Sheppard "The Separation of Religion and Democracy"

William Hawkins Sohm "Adaptation Over Survival: South Carolinian Leaders' Contributions"

<sup>\*30</sup> minute presentations

2:00-4:00 p.m.

### SENIOR ART PROJECT

#### **Harper Center Gallery**

Erin Connolly "Barriers"

2:30-3:30 p.m.

### MUSIC HONORS RECITALS

#### **Edmunds Hall**

Seth Matthew Brown Double Bass

Lindsey Elizabeth Gardner Soprano

Joshua Richard Harrington Organ

Cassidy Michaelle Jarrett Percussion

Gabriela Josephine Lewis Violoncello

Tianna Marin Smith Soprano

Hannah Marie Taylor Soprano

2:55-3:55 p.m.

<u>Library 39</u> Women's Rights\*

Presider: G. Terry Barr, Ph.D.

Meredith O. Morgan "Politics of the Veil in Turkey"

Tianna M. Smith "Advantages and Disadvantages of the Use of Cipher Notational Systems in

Selected Asian Musical Traditions"

<u>Library 54</u> Improving Health\*

Latha A. Gearheart, Ph.D.

Joshua A. Carter "Synthesis of 3'-C-Puromycin Analogs as Novel Non-Nephrotoxic Antitumor

Antibiotics"

<sup>\*30</sup> minute presentations

4:15

# **Belk Auditorium**

# **Honors Convocation**

7:30

# **Harper Center Theater** Intersections

Tobi Antigha, Kelly Cichon Garret Conover Phoebe Jones Youngkyung Sohn Acey Palmer Devron Glenn Zander Anderson Taylor Stacy Maddison Hogan Olivia Aldridge Harrison Hopkins

#### Honors Day Symposium

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