

Honors Day Symposium

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

APRIL 20, 2017



PRESBYTERIAN COLLEGE IS AN INSTITUTIONAL MEMBER OF THE COUNCIL ON UNDERGRADUATE RESEARCH *Learning Through Research*

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

Catherine R. Christaldi, Rebecca L. Howell, & Taylor K. Servais	"Induction of P-glycoprotein in Caco-2 cells and Chemotherapy Resistance"
Kassandra L. Glover	"STEM Majors Have a More Positive Opinion of Modern Curriculum and Peda- gogy in Introductory Biology"
Allison L. Jenkins	"The Analysis of SEM and Light Micrographs to Determine the Paleodiet of Hy- pertragulids of the White River Formation"
Haleigh E. Mauldin	"Master Chronology of Quercus Alba (White Oak)"
Caroline A. Moore & Claire E. Doolittle	"A Community Partnership: The Little Free Library in Lydia Mill"
Austin J. Priaulx	"The Morphometric Analysis of Four Species of Hypertragulids Using PCA Statis- tics"
Mikayla G. Register	"Surgical Reconstruction of the Knee"
Andrew P. Rhodes	"Remote Myoelectrically Controlled Robotic Hand"
Kathleen G. Snead	"Examining Plant Biodiversity along Riparian Zones at Bush River"
Adrienne M. Wright	"Examination of Cannabinoid-Positive Urine Samples for the Presence of Pesti- cides"

9:00-10:00 a.m.

<u>HP 214</u>	Crusading: The Baltic and Byzantine Experiences* Presider: Richard R. Heiser, Ph.D.
Carl A. Burnett	"The Northern Crusades: Glorified Border Wars or Actual Crusades?"
Jacob McGee	"Crusaders and Eastern Romans"
10:05-11:05 a.m.	
<u>Library 39</u>	Improving Plants and Animals* Presider: James T. Wetzel, Ph.D.
Sarah E. Jennings	"An Examination of the Effects of Abiotic Stress on the Phyllosphere Microbiome Composition of Maize Seedlings"
Kristen R. Peagler	"Ecotoxicological Impact of the Ionophore Narasin on the Gonadal Profile of the Southern Leopard Frog"
<u>Library 54</u>	Economic and Political Change* Presider: Karen W. Buckland, D.M.A.
Robert C. Inclan	"The Cuban Stationary Bandit: Why Raúl Castro Cannot Afford to Restrict Eco- nomic Freedom"
Joshua C. McGill	"The Lion versus the Dragon: How Beijing's Infringement of Hong Kong's De- mocracy and Underlying Economic and Cultural Tensions Caused the Umbrella Movement"
<u>Library 55</u>	Solvents and Relaxation Rates* Presider: Latha A. Gearheart, Ph.D.
Musashi J. Briem	"Electrochemical Applications of Deep Eutectic Solvents"
Lucas A. Pressley Darcy N. Nirenstein	"The Effect of Noble Metal Nanoparticles on the Relaxation Rate of Supercoiled DNA"
<u>Library 214</u>	Connections and Conflict Presider: Robert A. Bryant, Ph.D.
Destiny A. Willis & Ashlyn Bordelon	"The Effects of Social Conflict on Anxiety and Avoidance"
Destiny A. Willis	"Retention of Conflict-Induced Avoidance Behavior in Male Syrian Hamsters"
William G. Hobson	"Playing with (and Analyzing) Postmodern Narrative: Novel Intertextuality"
Daryl J. Wilson	"Interracial Relationships"

10:05-11:05 a.m.

<u>HP 214</u>	Crusaders from the British Isles* Presider: Richard R. Heiser, Ph.D.
Tanner L. Price	"King Richard I: A Good Crusade Leader?"
Jon Walker II	"The Kilted Crusaders"
11:10 a.m12:10 p.m.	
<u>Library 39</u>	Improving Health* Presider: Sharon E. Knight, Ph.D.
Ryan W. Brown	"What Really Guides Hospital Transfer Decisions? Probabilistic Multiple Regres- sion Model to Locate Trends Between Hospital Stays and Transfers and Socioeco- nomic Factors, Hospital Characteristics, and Comorbidity Metrics"
Anessa M. Pettis	"Lo Práctico y lo Ético de la Eliminación de los Mosquitos en Sudamérica: Una Investigación Científica y unas Reflexiones Poéticas"
<u>Library 54</u>	Analyzing Social Issues* Presider: G. Terry Barr, Ph.D.
Sarah R. Fossett & Geena E. Griffith	"Campus Climate Research"
Olivia J. Aldridge	"The Fawn Years: Essays for a Place"
<u>Library 55</u>	Understanding Structures* Presider: Chad L. Rodekohr, Ph.D.
Hayden C. Caraway	"Yeast as a Model for Type II Diabetes: Examination of Terminal Ends of HXTs Through Circular Dichroism"
Jonathan W. Turnley	"Stimulating Sn Whisker Growth with Etchants and Investigating Whisker Growth Mechanisms"
<u>HP 214</u>	Women and Children as Crusaders* Presider: Richard R. Heiser, Ph.D.
Shamyra L. Jordan	"The Children's Crusade of 1212: Aspiring Crusaders"
Kimberly Rhodes	"Women and the Crusading Movement"

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

1:15-2:15 p.m.

<u>Library 39</u>	Breast Cancer Research* Presider: Austin Y. Shull, Ph.D.
Christopher H. Parnell	"Breast Cancer Stem Cells Demonstrate a Hypermethylated Phenotype within Gene Promoter Regions"
Brandon L. Stone	"Gene Body DNA Methylation is Highly Dysregulated in Breast Cancer Stem Cells"
Library 54	Literary Studies* Presider: Jerry J. Alexander, Ph.D.
Olivia J. Aldridge	"The Evolution of Dystopian Fear"
Allison R. Cooke	"The Poetry of Louise Glück: The Search for a Feminine Self"
<u>Library 55</u>	Sound Presider: Kara L. Shavo, Ph.D.
<u>Library 55</u> Brandon L. Morrow	
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Brandon L. Morrow	Presider: Kara L. Shavo, Ph.D. "Efficient Coupling of Acoustic Power into Granular Materials"
Brandon L. Morrow William M. Grismore	Presider: Kara L. Shavo, Ph.D. "Efficient Coupling of Acoustic Power into Granular Materials" "Acoustic Investigation of Buried Objects"
Brandon L. Morrow William M. Grismore Edgar L. Alford	Presider: Kara L. Shavo, Ph.D."Efficient Coupling of Acoustic Power into Granular Materials""Acoustic Investigation of Buried Objects""Sound Propagation through Granular Material"Crusade Ideals and Motives*

2:20-3:20 p.m.

<u>Library 39</u>	Understanding Self-Concept and Self-Function* Presider: Brooke C. Spatta, Ph.D.
Anessa M. Pettis	"Improving 3D Printed Prosthetic Hand by Adding Skin and Efficient Wires and Sensors for Basic Movement"
Lauren E. Moore & Joel A. Tillirson	"Exploring Self-Concepts and Global Self-Worth in CHAMPS Students"
<u>Library 54</u>	Improving Structure and Function Presider: Eli T. Owens, Ph.D.
Salem C. Wright	"The Effect of Grain Shape on Side-Wall Pressure in Model Grain Silos"
Malachi I. Koenig	"Research of Optical Physics: The Schlieren Effect"
Tyler P. Hogan	"Unintended Consequences of Corporate Average Fuel Efficiency Standards"
Nicole E. Alleva & Sydney Ronzulli	"3D Veterinary Prosthetics"

2:00-4:00 p.m.

SENIOR ART PROJECT

Harper Center Gallery

Katherine H. Gleaton

2:30-4:00 p.m.

MUSIC HONORS RECITALS

Edmunds Hall

Olivia J. Aldridge Edgar L. Alford Harris H. Banks Thomas T. Banks Seth M. Brown Kellie C. Cleveland Collin J. McKinnon Emlynn L. Shoemaker Soprano Guitar Cello Baritone Double Bass Soprano Cello Mezzo-soprano

4:15

Belk Auditorium Honors Convocation

Keynote Address

"The Importance of Research in a Liberal Arts Setting"

Jerry K. Slice, Ph.D. Professor of Economics and Business Administration 2016 Faculty Scholarship Award Winner

Honors Day Symposium

Robert H. Freymeyer, Ph.D., Co-Organizer and Program Chair Stefan W. Wiecki, Ph.D., Co-Organizer Latha A. Gearheart, Ph.D., Editor, Abstract Book