Campus Research Day Program: April 15, 2014

Southern Adventist University

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Campus Research Symposium
April 15, 2014
Keynote Address
Dr. Jay Green
8:30 - 9:30 a.m.

Ackerman Auditorium

Dr. Jay Green has served on the history faculty at Covenant College since 1998. In addition to teaching various areas of American and non-western history, he enjoys teaching students how to think historically and to read and write history more thoughtfully. He has also devoted a great deal of his professional energies to thinking about the implications of historical thinking for faithful Christian living, and the impact of Christian faith on academic study.

Dr. Green has served on the editorial board of The Christian Scholars Review for more than a decade, the past six years as history editor. He is a past board member of the Conference on Faith and History and has written essays and reviews for Christianity Today, Books & Culture, Fides et Historia, and The Journal of American History, among other publications. He is also co-editor of Christian Faith and the Historian’s Vocation (Notre Dame Press, 2010), series editor of Faithful Learning: How Academic Disciplines can Cultivate a Love for God and Neighbor (Presbyterian & Reformed Publishers, 2014), and author of a forthcoming book on rival strategies of Christian historiography.

Dr. Green is an elder at Saint Elmo Presbyterian Church where he lives just a few blocks up the street with his wife and three children.
Session 1
9:45—10:45 a.m.

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MSN Capstone: Florida Hospital Hall 1111
Moderators: Dr. Huse, Dr. Christman

Rachel Burchell  Does Telemonitoring Prevent CHF Readmissions
Linda Applewhite  Mechanical versus Pharmacological Prophylaxis
Heather Woods  Students Perception of Content Delivery

MSN Capstone: Florida Hospital Hall 3111
Moderators: Dr. James, Dr. Gates

Stan Calvarese  Medication Non-Adherence in the Elderly
Amanda Abraham  Nursing Student Success Study
Melanie Calvarese  50 Shades of Graying: Geriatric Sexuality and the Rise of Sexually Transmitted Infections

Intermediate Analysis II: Florida Hospital Hall 1216
Moderator: Dr. Anderson

Reed Nomura  Limits at Infinity and Beyond
Simon Ionashku  Wallis's Epic Formula: Trigonometric Magic
Joshua Barrow  Affine Functions and a Selection of Their Properties
Haley Baker  An Infinitely Discontinuous and Continuous Function

Research Design & Statistics II: Florida Hospital Hall 3305
Moderator: Ms. Seifert

Kaylee Couser  College Students Reports of Bullying Tendencies
Hannah Leonard  SDA Attitudes Toward Skin Tone Alteration Methods
Eliseo Sanchez  Self-Concept, Co-Curricular Activities, and Academic Achievement in College Students
Keren Gomez  Academic Differences Between American Students and International Students
Session 1 (Continued)

9:45—10:45 a.m.

Social Welfare Issues & Policy: Daniels Hall 114
Moderator: Ms. Bravo-Rivera

Megan Pauls
Rebecca Hernandez
Kaylie Dobbs

Vicky Landau
Tiara Hoy
Brittany Cantrell

Marvelle Davis
Samantha Paul
Katherine Rodriguez

Strong Start for America's Children Act H.R. 3461
H.R. 2734- Garrett Lee Smith Memorial Act Reauthorization of 2013
S.380- Children's Trauma Recovery Act

Research in Biology/Introduction to Research: Lynn Wood Hall 320

Melissa You
Michael Chung
Brenden Dodd
Jorge Magnana
Seth Stennis
Brenton Campbell
Carl Decker
Candace Olusola
Trevor Silva

Dendrochronology - Developing a site-wide reference tree-ring chronology on the biology train system of Southern Adventist University: How the past informs the future of our forests

Novel synthesis of 6,7-bis(alkylthio- or alkylamino-substituted) quinoline-5,8-dione via nucleophilic addition/oxidation of alkylthio and alkylamino derivatives to quinoline-5,8-dione

The effects of ascorbic acid on Drosophila susceptibility to permethrin and suppression of cytochrome P450 activity
Session 2
11:00—12:15 p.m.

MSN Capstone: Florida Hospital Hall 1111
Moderators: Dr. Freeland, Dr. Liedke

Jeffrey Wilson  Comparing Treatments of Anxiety in the Primary Care Setting
Lisa Becker  Violent Video Games' Effect on Children and Youth
Tanya Thomas  The Effectiveness of Group Visit in Diabetic Patients with Hemoglobin A1C greater than 7
Caleigh Teasley  Induced Hypothermia in Traumatic Brain Injury

MSN Capstone: Florida Hospital Hall 3111
Moderators: Dr. Johnson, Dr. Gates

Amy Coggin  Oral anticoagulation in patients with non-valvular atrial fibrillation: Stroke prevention and bleeding risks with a focus on warfarin and the novel oral anticoagulants
Kimberly Fugate  Staple Line Reinforcement for Thoracic Surgery: A Retrospective Study of Memorial Thoracic Patients from 2009-2012
Sonya Lovingood  Processed Sugars and the American Diet in relation to Coronary Heart Disease
Eunice Kim  Non-Academic Factors that influence National Council Licensure Examination for Registered Nurses (NCLEX-RN) Outcome

Human Behavior and the Social Environment II: Daniels Hall 114
Moderator: Mr. Rusu

Natalie Mevs  A Child's Perception: Domestic Violence and its Effects on Children within the Home
Eddie Wilson  How does aging effect mental health?
Rudy Franco  Gang violence and how it affects teens

Human Behavior and the Social Environment II: Daniels Hall 220
Moderator: Ms. Lewis

Yadiel Muñoz  Main traits affecting veterans that come back to society
Danielle Stephen  What are the social, emotional, and behavioral problems of children who witness intimate partner violence from birth to high school?
Nikkia Arnold-Jackson  Grief in college students
Session 2 (Continued)
11:00—12:15 p.m.

Human Behavior and the Social Environment II: Daniels Hall 219
Moderator: Mr. Cottrell

Marina Acosta Impact of discrimination among Native American Population
Khaneisha Harewood  The emotional and psychosocial effects of survivors of pediatric cancer
Jessica Hill  What are the causes and effects of depression among adolescents

Intermediate Analysis II/Independent Research Projects: Florida Hospital Hall 1216
Moderator: Dr. Anderson

Lindsay Wood The Convergence of an Iterative Process for Approximating Square Roots
James Aluoch Derivation of Logarithmic Functions

Research Design & Statistics II: Florida Hospital Hall 3305
Moderator: Dr. Maxwell

Silvana Riano Perceptions of College Students on Interracial Dating and Interracial Marriage
Fernando Barrientos Aspirations, Enculturations, and Well-being of Latino Young Adults
Hayley Baker Emerging Adulthood Life Perceptions on Their 20's Decade
Emmanuel Cabrera Self-Perceptions and Touch in Adults

Scientific Writing & Presentation/Independent Research Projects
McKee Library Presentation Lab
Moderator: Dr. Hansen

Jonathan Sackett Brain Control Performance Using Single and Dual ROI's in Real-Time FMRI with Neurofeedback
Edison Carrick Doing Smart Things Efficiently
Sean Bryant General Purpose Data Logger: Open Hardware for $13
Poster Session
12:00—1:30 p.m.
McKee Library

Chemistry Seminar

David Chang  Innovative Synthesis of Diltiazem/Clentiazem Analogs
Leanne Minimo  The antibacterial potential of phenazine derivatives
Holly Huang  Rate-limiting step in formation of cyclohexenyl cation by acid-catalyzed dehydration of cyclohexanol and protonation of cyclohexene

Introduction to Research in Chemistry

Jeff Futcher  Effect on the rate of an acid-catalyzed dehydration by varying the cosolvent concentration

Animal Histology

Franklin Dorsey  Killer Beverage: Analysis of Alcoholic Liver Disease
Ryan Tanguay  Amyotrophic Lateral Sclerosis (ALS)
Kelsi Curnow  The Effects of Gluten Ingestion on the Villi of Celiacs Disease Patients
David Weber  Multiple Sclerosis
Lynda Salguero  Epithelial Metaplasia
Christian Pinango  How the Tunica Intima thickens in the process of Atherosclerosis
Jonathan King  Photoallergy-induced Photodermatoses
Jasmine Ward  Muscular Dystrophy
Mario Bacelar  What causes Juvenile rheumatoid arthritis (JRA) which may affect a person aged 16 or less?
Allyssa Dann  Polycystic Kidney Disease
Iris Ohsie  Chondrosarcoma
Adriel Green  Crohn's Disease
**Poster Session** (Continued)

12:00—1:30 p.m.

McKee Library

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**Research Methods in Nursing**

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<th>Courtney Brackbill &amp; Melissa Allen</th>
<th>The Relationship between Nurse Staffing and Patient Outcomes</th>
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<td>Heath Carroll &amp; Reyna Torrez</td>
<td>Early Activation of the Heart Catheterization Team By Paramedics and Patient Outcomes</td>
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<td>Megan Clark &amp; Crystal Sepulveda</td>
<td>Physical Restraint use on Elderly Patients in the Nursing Home Setting</td>
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<td>Nicole Coto &amp; Michael Lopez</td>
<td>How Burnout Affects Patient Care</td>
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<td>Shelly Davis &amp; Hannah Tyman</td>
<td>Contact Precautions vs. Hand Washing: Which is more effective in controlling the spread of MRSA?</td>
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<td>Nicholas Ewing &amp; Kelsey Wilkens</td>
<td>The Effects of Electronic Medical Records on Medication Administration Errors</td>
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<td>Jonika Freeman &amp; Michelle Baylon</td>
<td>Improving Quality of Patient Care through Bedside Shift Reporting</td>
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<td>Nitha &amp; Roshmoti Halder</td>
<td>Nonverbal Pediatric Pain Assessment Scales</td>
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<td>Thea King &amp; Chanttal Herrera</td>
<td>Preventing Cardiovascular Disease in Diabetics</td>
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<td>Corey Hihar &amp; Tayna Takimoto</td>
<td>Improving Fall Prevention</td>
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<td>Andrissa Lorenzo &amp; Tim Lee</td>
<td>The Effects of Integrating Psychotherapy in Physical Rehabilitation Programs of Lower Limb Amputees</td>
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<td>Adriana Reyes &amp; David Arvizu</td>
<td>Technology: Affecting the minds of our future generation</td>
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<td>Taylor Roberts &amp; Katelyn Hessencahl</td>
<td>Educational Differences Needed Because of Cultural Disparities for Asian People Who Have Coronary Artery Disease</td>
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<td>Julie Schleifer &amp; Michelle Contarino</td>
<td>Elective Induction and its Effect on the Rates of Cesarean Section</td>
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<td>Heather Schlund &amp; Yvette Mamora</td>
<td>Hourly Rounding: Is It Worth the Effort?</td>
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<td>McKenzie Smartt &amp; Anna Ferris</td>
<td>Stop the Cycle: New Nurse Bullying</td>
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<td>Ashley Taylor &amp; Elani Richards</td>
<td>Effects of Pharmacist and Nurse Collaboration in Preventing Adverse Drug Reactions</td>
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<td>Kristiana Wrate &amp; Breck Lang</td>
<td>Increasing Influenza Vaccination Rates Among Health Care Workers</td>
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### Poster Session (Continued)

12:00—1:30 p.m.

McKee Library

- **Research Design & Statistics II**

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<td>Emmanuel Cabrera</td>
<td>Self-Perceptions and Touch in Adults</td>
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<td>Jailyn King</td>
<td>Attitudes Toward Abortion, Miscarriage, and Still Birth</td>
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<td>Janelle Wong</td>
<td>College Students' Racial/Ethnic Perceptions of Marriage Choices</td>
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<td>Jordan Antone</td>
<td>Premarital Sex and College Students' Romantic Relationships</td>
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<td>Michelle Valentin</td>
<td>Perceptions of Teachers' Impact on Students</td>
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<td>Alyssa Bianco</td>
<td>Perceptions of Parenting Styles and Aggression</td>
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<td>Khadisha Sylvester</td>
<td>Sounds Good on Paper: The Effect of Priming Words and Ethnicity on Perceived Female Facial Attractiveness</td>
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<td>Jordyn Butts</td>
<td>Type of K-12 Schooling and Social Development in College Students</td>
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<td>Paola Lopez</td>
<td>God Concepts/ Beliefs and Life Satisfaction at Southern Adventist University</td>
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12:00—1:30 p.m.
McKee Library

History and Systems of Psychology

Emu Aragon, Chris Hudson, & Erica Keeton:
Psychology and Higher Education: A History and Systems Perspective

Phillip Hodson, Carrie Jones, & Annabelle Kyle:
Psychology and Ellen G. White: A History and Systems Perspective

Hannah Zackrison, Aubrey Wallin, & Trevor Culp:
Psychology and the Church: A History and Systems Perspective

Carlos Rosales, Jasmine Quailey, & Richard Sassone:
Ellen G. White and Psychology: A History and Systems Perspective

Hayley Baker, Destiney Farley, & Kitty Li:
Psychology and the Bible: A History and Systems Perspective

Social Welfare Issues & Policy (Graduate)

Brittni Bryan, Trudy Baker, Adrienne Hines-Bond, Misty Deans, Samantha Graham,
Sharon Johnson, Jeanette Padilla, & Otilia Schimbischi:
One Step Further: Human Trafficking Sentence Enhancement and Improved Minor Victim Protection

Kyley Barton, Jessica Rosin, Amaad Dowdell, Nicole Durrant-St.Romain, Sparka Perry,
& Lawrence Spencer:
Human Rights: HB 0490 and SB 1216

Research in Biology

Melissa You, Michael Chung, Brenden Dodd, Jorge Magnana, Seth Stennis,
& Brenton Campbell:
Dendrochronology - Developing a site-wide reference tree-ring chronology on the biology train system of Southern Adventist University: How the past informs the future of our forests

Victor Hong, Victoria Ashles, Adrian Sarli, & Matthew Green
Differential protein expression during limb regeneration of anolis carolinensis

Brianna Taylor:
The effects of ascorbic acid on Drosophila susceptibility to permethrin and suppression of cytochrome P450 activity
Poster Session (Continued)

12:00—1:30 p.m.
McKee Library

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Introduction to Research

Candace Olusola & Trevor Silva:
Novel synthesis of 6,7-bis(alkylthio- or alkylamino-substituted) quinoline-5,8-dione via nucleophilic addition/oxidation of alkylthio and alkylamino derivatives to quinoline-5,8-dione

Jeena Foronda:
A New Methodology for the Synthesis of 2-Alkyl-5,6-bis(alkylthio)benzo[d]thiazole-4,7-dione

Intercultural Communication

Adiel Paulin:
Brazilian Culture

Interdisciplinary Research

Summer Weeks  Use of a Locally Widespread Lancian Seismite as a Time Synchronous Stratigraphic Marker for Mapping Dinosaur Bonebeds in Northeastern Wyoming

Joseph Cartwright 3-1 Girl Guy Ratio Is it true?
Session 3
1:30—2:30 p.m.

MSN Capstone: Florida Hospital Hall 1111
Moderators: Dr. Freeland, Dr. Liedke

Cynthia Griffey  Stroke Risk Factors in Women
Shelley Robertson Congestive Heart Failure; Digging Deeper
Esli Valero  Pressure Ulcer Prevention: Use of a Prophylactic Sacral Dressing in Trauma Patients with an Emergency Admission

MSN Capstone: Florida Hospital Hall 3111
Moderators: Dr. Gadd, Dr. Gates

Enesa Kanjesic Management of Type 2 Diabetes with Lifestyle Coaching in Low Income Individuals
Ashley Miller  A Prospective Study to Evaluate Patient Activity Compliance and its Effects on postoperative Outcomes of Malignant Surgical Lung Resection Patients
Brandy Sanchez Self-Mutilation: Understanding the Person, the Methods and the Purpose

Social Welfare Issues & Policy: Daniels Hall 114
Moderator: Ms. Spears

Constance Dawes H.R.2036 - Foster Children Opportunity Act
Hannah Skellenger
Lundy Florveous
Karen Diaz
Abraham Navarro Bill: H.R. 1466 - Social Work Reinvestment Act
Mario Dean
John Olaore
Cassy Leonor
Chelsea Kirkpatrick S. 195-Mental Health in Schools Act/ H.R. 628 Mental Health in Schools Act of 2013
Stephanie Hardy
Kentia Ledezma
Leslie Martinez

Human Behavior and the Social Environment II: Daniels Hall 203
Moderator: Ms. Lewis

Saskia Hurlston Child poverty
Mischka Scott The challenges of homelessness among sexual minorities: LGBT homeless adolescents and suicide
Krystle Cartagena Gender equality: What is feminism and how it is our solution
Session 3 (Continued)
1:30—2:30 p.m.

Social Welfare Issues & Policy (Graduate): Daniels Hall 219
Moderator: Ms. Seifert

Brittni Bryan
Trudy Baker Adrienne
Hines-Bond
Misty Deans
Samantha Graham
Sharon Johnson
Jeanette Padilla
Otilia Schimbischi

Kyley Barton
Jessica Rosin
Amaad Dowdell
Nicole Durrant-St.Romain
Sparka Perry
Lawrence Spencer

One Step Further: Human Trafficking Sentence Enhancement
and Improved Min or Victim Protection

Human Rights: HB 0490 and SB 1216

Research Methods in History/Science Writing and Presentation
Florida Hospital Hall—Room 1305
Moderator: Dr. Norskov

Amanda Forbes
Triage, Ambulances, and Nurses: The Civil War and its Contribution to Modern Medicine

Jonathan King
Triatomic Molecular Periodicity in Spectroscopic Constants

Erin Bush
It Takes Two To Tango: Prostitution, Principal, and Politics in Civil War Washington DC and Richmond, VA
Session 4
2:45—4:00 p.m.

MSN Capstone: Florida Hospital Hall 1111
Moderators: Dr. Gadd, Dr. Christman

Tonya Anderson & Amy Blake  
Comparison of teaching strategies on teaching drug dosage calculation skills in fundamental nursing students

Mabel Carson & Lynette Pinson  
Perceptions of ASSIST Program Participants

Brooke Ellis & Chris Doneski  
Family Presence During Resuscitation, An Educational Offering

Preethi Unjakoti  
Risk Classification System for Clostridium difficile Colitis Infections

MSN Capstone: Florida Hospital Hall 3111
Moderators: Dr. Johnson, Dr. Gates

Shirin Noorani  
Ovarian Cancer: Review of Literature

Linda Turner  
Alcohol Treatment in the Native American

Nathan Woody  
Ventilator Weaning Protocols

Timothy George  
Current Status and Development of Probable Malaria Vaccine Candidates

Human Behavior and the Social Environment II: Daniels Hall 203
Moderator: Mr. Rusu

April Riseley  
A Life Cut Short

Jonathan Mendez  
Gender-role stereotypes (masculine ideology) and men’s attitudes toward help-seeking

Lindsey Crerar  
Babies having babies: What life struggles do white American teen mothers face after their baby is born?

Human Behavior and the Social Environment II: Daniels Hall 219
Moderator: Ms. Lewis

Adris Mata  
Sex Trafficking

Antonio Simpson  
Substance use and abuse in the U.S. Army Soldier and Veteran Population

Brandon Strachan  
Underage college drinking
**Session 4 (Continued)**

2:45—4:00 p.m.

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Chemistry Seminar: McKee Library Presentation Lab

*Moderator: Dr. Menzmer*

David Chang  
Innovative Synthesis of Diltiazem/Clentiazem Analogs

Leanne Minimo  
The antibacterial potential of phenazine derivatives

Holly Huang  
Rate-limiting step in formation of cyclohexenyl cation by acid-catalyzed dehydration of cyclohexanol and protonation of cyclohexene

Social Welfare Issues & Policy: Florida Hospital Hall 1305

*Moderator: Ms. Bravo-Rivera*

Elizabeth Bisalski  
S. 689- Mental Health Awareness and Improvement Act of 2013

Allie Greulich

Sasha Andrade

Allen Smith  
S.1307 Youth Prison Reduction through Opportunities, Mentoring, Intervention, Support, and Education Act

Charity Jones

Stormy Fisher

Research and Statistics/Science Writing and Presentation

Florida Hospital Hall—Room 1210

*Moderator: Dr. Hansen*

Simon Ionashku  
Game Theory: Cooperative Trigger Strategies in Love and War

Stephanie Bolin

Monic Lindsey

A Study of Stimulating Versus Non-Stimulating Visuals in a Preschool Classroom

Joshua Barrow  
The Semi-Empirical and Theoretical Searches for Free Triatomic Molecules in Space, and Possible Evidence of Periodicity
Thank you to the following faculty for their mentorship in guiding students to this point in their academic career:

Dr. Ray Hefferlin, Research Professor of Physics  
Dr. Mitch Menzmer, Professor of Chemistry  
Dr. Rick Norskov, Professor of Biology  
Dr. Tony Trimm, Professor of Biology  
Mr. Cornel Rusu, Associate Professor of Social Work  
Ms. Tricia Lewis, Associate Professor of Social Work  
Dr. Patti Anderson, Professor of Mathematics  
Dr. Ben Thorton, Professor of Biology  
Dr. Ann Foster, Professor of Biology  
Dr. Herman Odens, Professor of Chemistry  
Dr. Holly Gadd, Professor of Nursing  
Dr. Frances Johnson, Professor of Nursing  
Dr. Barbara James, Professor of Nursing  
Dr. Ronda Christman, Professor of Nursing  
Dr. Jaclynn Huse, Professor of Nursing  
Dr. Michael Liedke, Professor of Nursing  
Dr. Bonnie Freeland, Professor of Nursing  
Mrs. Kristie Wilder, Assistant Professor of Social Work  
Dr. Kris Erskine, Associate Professor of History  
Dr. Blake Laing, Assistant Professor of Physics and Engineering  
Dr. Chris Hansen, Professor of Physics  
Ms. Tara Hargrove, Assistant Professor of Journalism  
Dr. Bonnie Eder, Associate Professor of Education  
Dr. Ruth Williams-Morris, Professor of Psychology  
Dr. Mark Peach, Professor of History