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Campus Research Day Program: April 15, 2014

Southern Adventist University

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SOUTHERN
ADVENTIST UNIVERSITY

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.



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	Strong Start for America's Children Act H.R. 3461
Vicky Landau Tiara Hoy Brittany Cantrell	H.R. 2734- Garrett Lee Smith Memorial Act Reauthorization of 2013
Marvelle Davis Samantha Paul Katherine Rodriguez	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	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
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
Brianna Taylor	The effects of ascorbic acid on <i>Drosophila</i> 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
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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



Research Methods in Nursing

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

Poster Session_(Continued)

12:00—1:30 p.m.

McKee Library



Research Design & Statistics II

Emmanuel Cabrera	Self-Perceptions and Touch in Adults
Jailyn King	Attitudes Toward Abortion, Miscarriage, and Still Birth
Janelle Wong	College Students' Racial/Ethnic Perceptions of Marriage Choices
Jordan Antone	Premarital Sex and College Students' Romantic Relationships
Michelle Valentin	Perceptions of Teachers' Impact on Students
Alyssa Bianco	Perceptions of Parenting Styles and Aggression
Khadisha Sylvester	Sounds Good on Paper: The Effect of Priming Words and Ethnicity on Perceived Female Facial Attractiveness
Jordyn Butts	Type of K-12 Schooling and Social Development in College Students
Paola Lopez	God Concepts/ Beliefs and Life Satisfaction at Southern Adventist University
Trevor Culp	Gender Inequality in SAU College Career Choices
Kaylee Couser	College Students Reports Of Bullying Tendencies Among Students
Hannah Leonard	SDA Attitudes Toward Skin Tone Alteration Methods
Keren Gomez	Academic Differences Between American Students and international Students
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
Eliseo Sanchez	Self-Concept, Co-Curricular Activities, and Academic Achievement in College Students

Poster Session_(Continued)

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 Zackrisson, 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)

- Brittini 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 in
forms the future of our forests
- Victor Hong, Victoria Ahles, 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



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

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	One Step Further: Human Trafficking Sentence Enhancement and Improved Min or Victim Protection
Misty Deans	
Samantha Graham	
Sharon Johnson	
Jeanette Padilla	
Otilia Schimbischi	
Kyley Barton	
Jessica Rosin	Human Rights: HB 0490 and SB 1216
Amaad Dowdell	
Nicole Durrant- St.Romain	
Sparka Perry	
Lawrence Spencer	

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 Contribu- tion 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 <i>Clostridium difficile</i> 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.



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 Allie Greulich Sasha Andrade	S. 689- Mental Health Awareness and Improvement Act of 2013
Allen Smith Charity Jones Stormy Fisher	S.1307 Youth Prison Reduction through Opportunities, Mentoring, Intervention, Support, and Education Act

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 Pre-school 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
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Ms. Tricia Lewis, Associate Professor of Social Work
Dr. Patti Anderson, Professor of Mathematics
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Dr. Ann Foster, Professor of Biology
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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 WilliamsMorris, Professor of Psychology
Dr. Mark Peach, Professor of History



Power for Mind & Soul