4-15-2014

Campus Research Day Program: April 15, 2014

Southern Adventist University

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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*

<table>
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<tr>
<th>Presenter</th>
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<tbody>
<tr>
<td>Rachel Burchell</td>
<td>Does Telemonitoring Prevent CHF Readmissions</td>
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<tr>
<td>Linda Applewhite</td>
<td>Mechanical versus Pharmacological Prophylaxis</td>
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<td>Heather Woods</td>
<td>Students Perception of Content Delivery</td>
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**MSN Capstone: Florida Hospital Hall 3111**  
*Moderators: Dr. James, Dr. Gates*

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<tr>
<td>Stan Calvarese</td>
<td>Medication Non-Adherence in the Elderly</td>
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<tr>
<td>Amanda Abraham</td>
<td>Nursing Student Success Study</td>
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<tr>
<td>Melanie Calvarese</td>
<td>50 Shades of Graying: Geriatric Sexuality and the Rise of Sexually Transmitted Infections</td>
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**Intermediate Analysis II: Florida Hospital Hall 1216**  
*Moderator: Dr. Anderson*

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<tbody>
<tr>
<td>Reed Nomura</td>
<td>Limits at Infinity and Beyond</td>
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<td>Simon Ionashku</td>
<td>Wallis’s Epic Formula: Trigonometric Magic</td>
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<td>Joshua Barrow</td>
<td>Affine Functions and a Selection of Their Properties</td>
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<td>Haley Baker</td>
<td>An Infinitely Discontinuous and Continuous Function</td>
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**Research Design & Statistics II: Florida Hospital Hall 3305**  
* Moderator: Ms. Seifert*

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<td>Kaylee Couser</td>
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<td>Academic Differences Between American Students and international Students</td>
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</table>
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  
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
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<th>Research Methods in Nursing</th>
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<tr>
<td>Courtney Brackbill &amp; Melissa Allen</td>
<td>The Relationship between Nurse Staffing and Patient Outcomes</td>
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<td>Heath Carroll &amp; Reyna Torrez</td>
<td>Early Activation of the Heart</td>
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<td>Megan Clark &amp; Crystal Sepulveda</td>
<td>Catheterization Team By Paramedics and Patient Outcomes</td>
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<tr>
<td>Nicole Coto &amp; Michael Lopez</td>
<td>Physical Restraint use on Elderly Patients in the Nursing Home Setting</td>
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<tr>
<td>Shelly Davis &amp; Hannah Tyman</td>
<td>How Burnout Affects Patient Care</td>
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<tr>
<td>Nicholas Ewing &amp; Kelsey Wilkens</td>
<td>The Effects of Electronic Medical Records on Medication Administration Errors</td>
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<tr>
<td>Jonika Freeman &amp; Michelle Baylon</td>
<td>Improving Quality of Patient Care through Bedside Shift Reporting</td>
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<tr>
<td>Nitha &amp; Roshmoti Halder</td>
<td>Nonverbal Pediatric Pain Assessment Scales</td>
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<tr>
<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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<tr>
<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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<tr>
<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 Hesseneahl</td>
<td>Educational Differences Needed Because of Cultural Disparities for Asian People Who Have Coronary Artery Disease</td>
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<tr>
<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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<tr>
<td>McKenzie Smartt &amp; Anna Ferris</td>
<td>Stop the Cycle: New Nurse Bullying</td>
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<tr>
<td>Ashley Taylor &amp; Elani Richards</td>
<td>Effects of Pharmacist and Nurse Collaboration in Preventing Adverse Drug Reactions</td>
</tr>
<tr>
<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

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
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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 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 Schimbisch:
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 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

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

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

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.

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

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

SOUTHERN ADVENTIST UNIVERSITY

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