



# *HONORS DAY SYMPOSIUM*

Neville Hall

Edmunds Hall

Harper Center

April 25, 2019



PRESBYTERIAN COLLEGE  
IS AN INSTITUTIONAL MEMBER OF THE  
COUNCIL ON UNDERGRADUATE RESEARCH

*Learning Through Research*

# 2019 Honors Day Symposium

**8:40 – 8:55**

**Welcome Address**

**Neville Hall**

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## **Welcome Address**

Donald Raber, II, Ph.D., Provost of Presbyterian College  
*Cornelson Center*

*Coffee and Donuts will be available in the Cornelson Center of Neville Hall*

**9:00-10:00**

**Posters**

**Neville Hall**

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“Education of Pharmacy Students on Human Papillomavirus Vaccination to Improve Vaccine Acceptance and Administration,” Angela Winkler, Tai Navalle, Natasha Edwards, Missouri Jenkins, Laura Richardson

“Creating an Autism-Friendly Classroom,” Rebekah L. Martin

“Joan of Arc: Lack of Justification for Canonization,” Jacob R. Bridges

**9:00 – 10:15**

**Panels**

**Neville Hall**

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## **Campaign and Elections in the United States** *Neville 122*

**Convener: Dr. Justin Lance**

“Where Are All the Republican Women? The Puzzling Gap Between Democratic and Republican Women Within the U.S. Congress,” Amber B. Davis – 15 mins

“Does Straight Ticket Voting Cause Polarized Representation?” F. Burke Long – 15 mins

“Analysis of the 2016 Presidential Primary Election: Effects of Campaign Visits by Presidential Candidates,” Colt J. Patterson – 15 mins

## **Influential Social Factors Predicting Behavior** *Neville 106*

**Convener: Dr. Carla Alphonso**

“How Social Factors in Competitive Youth Baseball Affect the Success of Little Leaguers,” Colton Springs – 15 mins

“Are Cameras a Weapon? The Effect of Recording on Memory,” Christian Sanders – 30 mins

**French Politics, Philosophy, and Culture**  
*Neville 105*

**Convener: Dr. Patrick Kiley**

“La Manie des manifs chez les Français,” Caroline G. Christenbury – 30 mins

“Le Succès de Marine Le Pen: une comparaison des différences de leadership entre Marine et Jean-Marie le Pen,”  
Regan A. Reed – 15 mins

“La Vision du monde chez Camus,” Jessica Weaver – 15 mins

**Early Twentieth Century History**  
*Neville Auditorium*

**Convener: Dr. Roy Campbell**

“The American Failure: Armenian Genocide,” Samantha J. Fink – 15 mins

“The Coup of Muhammad Mossadegh: How Did We Get Here?” Zariya Lagroon – 15 mins

“The Pity of War: A Study of Poetry during WWI,” Collin B. Burnett – 15 mins

“My Brothers in Hell: A WWI Documentary,” Collin B. Burnett – 15 mins video

**Physics**  
*Neville 121*

**Convener: Dr. Eli Owens**

“Kinetics of Tin Whisker Growth,” Emily K. Mitchell – 15 mins

“Measuring the Granular Density of Modes in 3D,” Sydney Blue – 15 mins

“Myoelectric Control of Prosthetics and Robotics,” Preston Robinette and Anna Crosby – 15 mins

“Experimental Setup for the Mathematical Analysis of Rope Braiding,” Zachary R. Darst and Brandt B. Cameron –  
15 mins

**Using a Yeast Model System to Study Metabolism**  
*Neville 110*

**Convener: Dr. Stuart Gordon**

“Genetic Influence of Methionine: A Study with Yeast Mutants,” Andrew F. King – 30 mins

“Localization of Glucose Transporters in Pre-Culture Conditions,” Sidney M. Littleton – 30 mins

**10:20 – 11:35**

**Panels**

**Neville Hall**

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**Race and Inequality in the United States**  
*Neville 122*

**Convener: Dr. Justin Lance**

“School Choice and Its Impact on the Resegregation of American Public Schools,” Robert P. Baker – 15 mins

“Resegregation of Schools in Charlotte Mecklenburg-County due to Charter Schools,” Sarah Shetley – 15 mins

“Legal Disenfranchisement: The Effect of Voter Suppression Tactics on Black Americans from 2002 to 2014,” Zoe Montague – 15 mins

“Section 8 Housing Voucher Program and Its Impact on Low-Income Americans,” Guy Revelle – 15 mins

### **Music and Literature**

**Convener: Dr. Karen Buckland**

#### ***Neville 105***

“A Survey of Female Composers,” Haley B. Pye – 30 mins

“Sir Gawain and the Green Knight and the Exploration of the Green Girdle,” Julia Marsh – 15 mins

### **United States involvement in Iraq and Iran (1979-2003)**

**Convener: Dr. Roy Campbell**

#### ***Neville 121***

“Iranian Hostage Crisis: Impacts on American Politics,” Joshua D. Urwick – 15 mins

“U.S. Relationship with Iraq before 1991,” Seth H. Barbee – 15 mins

“War Sells: Impact of Media on Selling the 2003 Iraq War,” Haleigh E. Brooks – 15 mins

### **Epigenetics**

**Convener: Dr. Clint Harshaw**

#### ***Neville Auditorium***

“The Epigenetic Role of Rrp1 in *Drosophila Melanogaster*,” Justin W. Davidson – 30 mins

“IL32 Expression is Epigenetically Regulated in Basal-Like Breast Cancer Stem Cells,” Emma V. Gray – 15 mins

“Multivariate comparison of DNA Methylation Events in Breast Cancer Stem Cells,” Caroline E. Dyar – 15 mins

### **Using a Yeast Model System to Study Autism Spectrum Disorder**

**Convener: Dr. Chad Rodekohr**

#### ***Neville 110***

“The Effects of Resveratrol on Mitochondrial Function in *Saccharomyces Cerevisiae* and Its Applications in the Treatment of Autism Spectrum Disorder,” Gabe R. Knight – 30 mins

“Analysis of NHE9 as a Candidate Gene for Autism Spectrum Disorder,” Natalie J. Barnett – 30 mins

**11:45 –1:00**

**Lunch Break**

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**Conflict Resolution in the International System****Convener: Dr. Justin Lance*****Neville 122***

"The Effects of Permanent Five Contributions to United Nations Peacekeeping Mission Success," Mary Katherine Harden – 15 mins

"The Most Effective Third-Party Intervention in Ending and Instituting Stable Resolutions to Ethnic Conflicts," Regan Reed – 15 mins

"Human Rights Protections and the Impact on Economies," Marshall Perkins – 15 mins

**Influential Social Factors Predicting Behavior II****Convener: Dr. Sarah C. Burns*****Neville 106***

"Decision Making Through the Lens of the Distinctiveness Model of the Narcissistic Subtypes (DMNS)," Caroline G. Christenbury – 30mins

"Does Perceived Parenting Affect Behavioral Conduct in CHAMPS Students?" Leah McNeil – 30 mins

**Arab-Israeli Conflict****Convener: Dr. Roy Campbell*****Neville 121***

"The Middleman: Ralph Bunche," Chad Antwan Stevens – 15 mins

"The Camp David Accords: America's Cure to the Cancer It Created," Robert Pershing Baker – 15 mins

"Beirut Bombing of 1983: How the Media's Coverage Shifted Our Mindset Towards the Middle East," Trevor Kay – 15 mins

**Fish Embryology and Gut Microbiomes****Convener: Dr. James Wetzel*****Neville Auditorium***

"Embryogenesis in the Live-Bearing Fish, *Poecilia Latipinna*, a Study in Correlative Microscopy," Tiffany C. Bogan – 30 mins

"Effects of Dietary Iron on the Zebrafish Gut Microbiome Composition," Kristin N. Miller – 30 mins

**Chemistry of Nanoparticles****Convener: Dr. Latha Gearheart*****Neville 110***

"DNA-modified Cadmium Sulfide Quantum Dot Nanoparticles," Morgan H. Wilson – 30 mins

"Size Control of Gold Nanoparticles," Salem C. Wright – 30 mins

**2:20-3:35**

**Panels**

**Neville Hall**

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**Worldwide Social Issues**

**Convener: Dr. Erin McAdams**

***Neville 122***

"The Surprising Prevalence of Child Marriage in the United States: An Examination of Factors of Impact on States' Rates of Child Marriage," Brenna B. Ashe – 30 mins

"Mass Media: The Racial Deception You May or May Not See," Francois Lewis – 15 mins

**History and Controversy**

**Convener: Dr. Roy Campbell**

***Neville 121***

"U.S. Airstrikes in Libya during 1986: Legal or a folly of a Failed Foreign Policy, Samuel Shore Doster – 15 mins

"Iran-Contra Affair: Who is really responsible?" Brian Russell Branch – 15 mins

"A Ribbon Around A Bomb: Frida Kahlo's Radical Politics," Macree Penny – 15 mins

**Dendrology and Fossils**

**Convener: Dr. Austin Shull**

***Neville Auditorium***

"The Effects of Urbanization as a Proxy for Climate Change on the Dendroclimatic Signal of White Oak (*Quercus Alba*) in the Upstate of South Carolina," Alexis K. Clark – 30 mins

"Tooth Microwear Analysis of the Early Oligocene Fossil Canid *Hesperocyon*," Channing E. Cox – 30 mins

**Using a Yeast Model System to Study Diabetes and Biofuels**

**Convener: Dr. Evelyn J. Swain**

***Neville 110***

"Determination of Yeast as a Model for Type II Diabetes: The Effects of GPR1 in Yeast as a Model of Long-Term Blood Glucose Control in Diabetics," Aaron A. Reynolds – 30 mins

"Truncation Synthesis and Analysis of HXT1 Glucose Transporter Structure and Function in *Saccharomyces Cerevisiae*," Douglas J. Smith – 15 mins

"Production of Bioethanol through the Fermentation of Kudzu Using *S. Cerevisiae*," Alexis D. Dabney – 15 mins

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**2:30 – 4:00**

**Art Exhibition**

**Harper Center**

Senior Art Exhibit – Lauren Adkins

**2:30 – 4:00**

**Music Recital**

**Edmunds Hall**

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Amy Wortkoetter, organ Class of 2019  
Harris Banks, cello Class of 2020  
Haley Pye, soprano Class of 2019  
Bobby Azevedo, clarinet Class of 2019  
Collin McKinnon, cello Class of 2019  
Paul Peart II, violin Class of 2020  
Jarvernique Tinsley, violin Class of 2020

Collaborative pianists (accompanists):  
Ms. Sharalynn Hicks  
Mr. Andrew Sheffield

**4:15 – 6:00**

**Honors Convocation**

**Belk Auditorium**

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**Keynote address by Chad L. Rodekoeh, Ph.D.**

Department of Physics and Computer Science  
2018 Robert H. Freymeyer Award for Meritorious Scholarship Winner

The Robert H. Freymeyer Award for Meritorious Scholarship is given annually to a full-time faculty member for distinguished work in research, scholarship or artistic creation. It may be awarded either for a single accomplishment or for a body of work.

**6:30 – 7:30**

**Guest Speaker**

**Edmunds Hall**

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**Kevin Willmott, American film director and screenwriter**

*A reception with refreshments begins at 6pm in Edmunds Lobby*

Kevin Willmott is a 2019 Oscar-winning screenwriter for the film *BlacKkKlansman*. He was also the co-writer of the Spike Lee film *Chi-Raq* and the upcoming *Da Five Bloods*. Willmott has written and directed numerous other films including the cult classic *C.S.A.: Confederate States of America*. He is a Professor in the Film and Media Studies Department at the University of Kansas.

**Honors Day Symposium Organizers**

Stefan W. Wiecki, Ph.D., Organizer and Program Chair  
Robert H. Freymeyer, Ph.D., Mentor and Adviser  
Latha A. Gearheart, Ph.D., Editor, Abstract Book  
Kirk Nolan, Ph.D., Division Coordinator (Humanities)  
Sarah C. Burns, Ph.D., Division Coordinator (Social Sciences)  
Katherine E. Hanlon, Ph.D., Division Coordinator (Pharmacy)  
Ron Zimmerman, Ph.D., Division Coordinator (Natural Sciences)