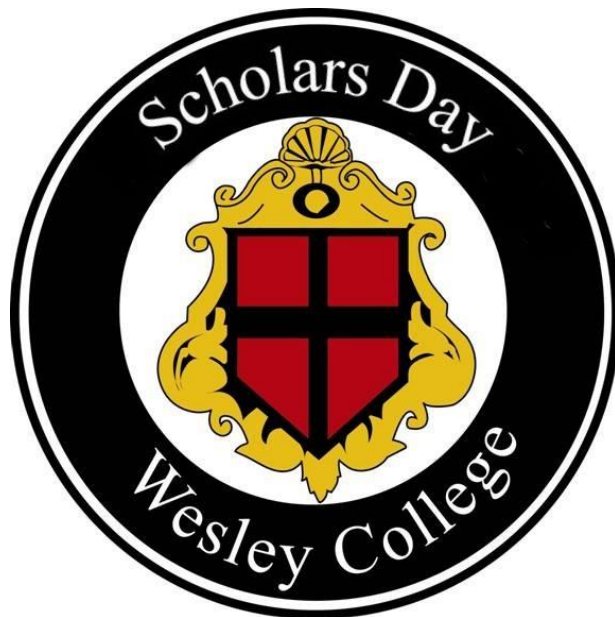


# Scholars Day

## **PROGRAM**

Wesley College  
Dover, Delaware



April 12, 2017

# Schedule of Events

Wells Auditorium (Slaybaugh Hall 107)

1:00 – 1:15 p.m.

Welcome & Opening Remarks

Dr. Jeffrey Gibson

Provost & Vice President for Academic Affairs of Wesley College

Session I

1:25-2:05 p.m.

Oral Presentations

Session II

2:15-2:55 p.m.

Oral Presentations

Poster Presentations

Musical Performances

Session III

3:05-3:45 p.m.

Oral Presentations

Art Demonstrations

Session IV

3:55-4:35 p.m.

Oral Presentations

Poster Presentations

4:45-6:00 p.m.

Reception & Award Ceremony

Remarks from President Robert E. Clark II

President of Wesley College

Remarks from Dr. Malcolm D'Souza

Professor of Chemistry and Associate Dean of Interdisciplinary/Collaborative Sponsored Research

Oral Presentations in

Slaybaugh Hall 103, Slaybaugh Hall 104, Cannon Hall 7, Cannon Hall 109, Cannon Hall 110

Poster Presentations in College Center Portico (North Circle)

In the event of rain, poster presentations will be in the College Center Lobby.

Musical Performances in the Bennett Chapel

Art Demonstrations/Exhibitions are in the Faculty Lounge in the College Center

Reception & Ceremony in College Center 206

**Session I: Oral Presentations**

**1:25-2:05 p.m.**

**Panel 1: Cannon Hall 7**

**Moderator: Alban Urbanas**

**Assessor: Bill Kroen**

*Evaluation Of The Effects Of Sulfonyl And Sulfamoyl Chloride On Aquatic Bacteria*

Ariel Bilbrough

*Using The Web & Social Media To Showcase STEM Undergraduate Research Programs At*

*Wesley College*

Andreanna Jeffries

**Panel 2: Cannon Hall 110**

**Moderator: Rebecca Miller**

**Assessor: Amy Strickland**

*A Study In Traveling Abroad*

Shannon Hollingsworth

*Daily Life In The Tang Dynasty*

James Poole

**Panel 3: Slaybaugh Hall 104**

**Moderator: Cathy Nosel**

**Assessor: Tammy Paxton**

*Book Club Data Mining-A Comparison Of Linear Regression And Binary Discrete Choice Models*

Ai Xu, Adrienne Bautista

*A Study Of Organic Food Consumers' Knowledge, Attitudes And Behavior*

James 'Beau' William, Zach Gaudlip, Lily Engel

**Panel 4: Cannon Hall 109**

**Moderator: Jack Barnhardt**

**Assessor: Elizabeth Marchioni**

*Are Adolescent Girls Who Use Oral Contraceptives At An Increased Risk Of Ovarian Cancer, Compared To Adolescents Who Do Not Use Oral Contraceptives?*

Teledalase Ogundipe

*Diversity And Multicultural Events On College Campus: Importance, Challenges & Strategies  
For Hosting*

Rose Bondoe, Monisola Olowere, Teledalase Ogundipe

**Panel 5: Slaybaugh Hall 103**

**Moderator: Saharat Pongsree**

**Assessor: Gwen Pursell**

*Comparing Investment Strategies*

Ronny Adzadu, Rashad Kilgore, and Derrick Schleich

**Session II: Oral Presentations**

**2:15 – 2:55 p.m.**

**Panel 1: Cannon Hall 7**

**Moderator: Christine McDermott**

**Assessor: KellyAnn Miller**

*Comparison Of Wetland Restoration Techniques By Vegetation Composition And Soil  
Properties*

John Dougherty

*Development Of Rivers And Streams: A Historical Analysis*

Jose Santana

**Panel 2: Cannon Hall 110**

**Moderator: Danielle Archambault**

**Assessor: Stephanie Holyfield**

*What's Your Problem?: The Effect Of Trait Aggression And Exposure To Violent Media On  
Perceptions Of Violence*

Courtney Gross

*Milton's Lucifer In America*

Sarah Lynch

**Panel 3: Slaybaugh Hall 104**

**Moderator: Richard Mahee**

**Assessor: Ethan Hawkley**

*The Legal History Of Marriage, Part 1*

Briana Milliner, Colin Correia, Alaina Weisberg, Stephanie Dobyms, Benjamin Campbell,  
Austin Kind, Maddison Cypher

*The Legal History Of Marriage, Part 2*  
Briana Milliner, Colin Correia, Alaina Weisberg, Stephanie Dobyns, Benjamin Campbell,  
Austin Kind, Maddison Cypher

**Panel 4: Cannon Hall 109**  
**Moderator: Victor Greto**  
**Assessor: Alex Spaul**

*Grace O'Malley The Pirate Queen*  
Julianna Tedder

*Margaret Sanger: Strong Woman*  
Betty Lee, Julianna Tedder, Joy Coleman

**Session II: Musical Performances**  
**2:15 – 2:55 p.m.**

**Panel 5: Bennett Chapel**  
**Moderator: David Laganella**  
**Assessor: James Wilson**

*The Knights In Shining Spandex Tone Painting*  
Emily Bentz

*Alex*  
Alexa Cherico

*Nothing Gold Can Stay*  
Alexa Cherico and Wesley College Choir

**Session II: Poster Presentations**  
**2:15 – 2:55 p.m.**

Poster 01: The Effectiveness Of Treatment Methods On Patients With Low Back Pain From  
Physical Therapist's Perspective  
Matthew Horton

Poster 02: Impact Of The Position Of The Chloro-Substituent In Chloroformate Reactivity  
Jeremy Wirick

Poster 03: Solving Mysteries Through Chemistry  
Aditya Bajaj

Poster 04: The Effect Of Dramatic Sea Level Rise On Tree Ring Anatomy Of Deceased Atlantic White Cedars  
Olivia Gulledge

Poster 05: What Are The Effects Of Asthma On Athletes?  
Elisabeth Lindstrom

Poster 06: African-American Emerging Adults And Mental Status  
Kaylynn Hall

Poster 07: CRISPR/Cas9 Gene Editing In Saccharomyces Cerevisiae  
Kristen M. Pisarcik

Poster 08: Pet Therapy And Its Effects On Children With Autism Spectrum Disorder  
Alyssa Pierce

Poster 09: The Effects Of Cognition Impairment: Improving An Elderly Patient's Cognition Through Brain Stimulation  
Samantha Land

Poster 10: Who Is More Susceptible To Sexual Violence: Athletes Or Non-Athletes?  
Mariah Payne

Poster 11: Inventory Platform Manages Chemical Risks, Addresses Chemical Accountability, And Measures Cost-Effectiveness  
Lily Neff

Poster 12: Use Of Polynomial Regression Techniques To Predict Solvent Mechanisms For Benzoyl Cyanide  
Edward A. Brandenburg

Poster 13: Root Cause Analysis: Discharge Teaching  
Natalie Trujillo, Kaitlin Brennan, Cho Dalton, Sarah Miller, Devin Mackay

Poster 14: Could Wesley College's Cannon Hall Benefit From Switching To All Green Office Supplies?  
Brooke Thompson

Poster 15: Florence Nightingale  
Katie Glidden, Lacey Long, Keshia Crowley, Matthew Sheats, Katherine King, Cowan Cummings

Poster 16: An Investigation Of Squirrels Use Of Olfaction Versus Vision In Foraging  
Matthew Horton, Josephine Veeria, Darrisha Small, Elaine Smith

*Poster 17: Differences In Parenting Styles Across Ethnic Groups*

Doitsu A. Aguilar

*Poster 18: Spatial Analysis Using GIS To Find An Ideal Neighborhood For Purchasing A Home*

Christina Hubert

*Poster 19: Accountability In Nursing Students*

Shanee Devane

*Poster 20: Obesity Trends In Three States*

Momina Toseef, Edward A. Brandenburg, Robert F. Dina

*Poster 21: Pet Assisted Therapy And The Future*

Alexa Venuto

*Poster 22: Analysis Of Air Quality And Asthma In Relation To Locations Of Coal-Fired Power Plants Of The Northeast*

Katelynn Fry, Joseph Howard

*Poster 23: The Relationship Between Media Use And Multitasking And Psychological Correlates: Ego-Control, Ego-Resiliency, Anxiety, And Loneliness*

Allison Perugini

*Poster 24: Avian Foraging: Place And Preferences*

Destiny Hollis, Savannah Bruce, Corey Johnson, Sharnice Wallace, Fawn Watkinson

*Poster 25\*: The Midnight Roast*

Betty Lee, Kelsey Fitzpatrick, Edward A. Brandenburg, Kenneth Ciccoli, Austin Luna

*\*Poster 25 is in the Faculty Lounge*

**Session III: Oral Presentations**

**3:05-3:45 p.m.**

**Panel 1: Cannon Hall 7**

**Moderator: Albee Mendoza**

**Assessor: Lynn Everett**

*Comparative Statistical Analysis Approach For Four Alkyl Chloroformates*

Robert F. Dina

*Risk Factors Associated With Type II Diabetes Among Wesley College Students*

Destiny Hollis

**Panel 2: Cannon Hall 110**  
**Moderator: Mary Jenson**  
**Assessor: Rebecca Benson**

*Coraline: Symbolism, Psychoanalysis, And Feminism*  
Teledalase Ogundipe

*Stepping Into The Driver's Seat: Narrative Freedom In Role Playing Video Games*  
Terrance Olivo

**Panel 3: Slaybaugh Hall 104**  
**Moderator: Paul Olsen**  
**Assessor: Brantley Craig**

*The National Football League And It's Marriage To Television*  
Ryan Sanders

*Prison Nursery Programs*  
Elizabeth Schlecker

**Panel 4: Cannon Hall 109**  
**Moderator: Barbara Abbott**  
**Assessor: Gwen Pursell**

*Mathematical Analysis Of Solar Energy In Delaware*  
Christina Hubert

*Central Americans Migrate To Escape Never Ending Hardships*  
Nicole Bader

**Session III: Art Demonstrations**

**3:05 – 3:45 p.m.**

**Panel 5: Faculty Lounge**  
**Moderator: Erin Perchiniak**  
**Assessor: Joshua Nobiling**

*Selected Digital Paintings*  
Emily Temple

*Universes by. Mr. Gist*  
Elijah Gist



*The Duality of Self*  
Azana-Tatjana Cralwey

**Session IV: Oral Presentations**  
**3:55-4:35 p.m.**

**Panel 1: Cannon Hall 7**  
**Moderator: Erin Perchiniak**  
**Assessor: Angela D'Antonio**

*Ficoll Induces Aggregation Of Bovine Serum Albumin And Phycoerythrin*  
Kanisha Blake

*Wesley College Depression Screening*  
Erin Townsley

**Panel 2: Cannon Hall 110**  
**Moderator: Mary Jenson**  
**Assessor: Nancy Rubino**

*Tesla's International Marketing Expansion Challenge*  
William Mileski

*The History Of Now: Documenting Recent American History*  
Shannon Hollingsworth

**Panel 3: Slaybough Hall 104**  
**Moderator: Paul Olsen**  
**Assessor: Brantley Craig**

*American Chinese Cuisine VS Authentic Chinese Cuisine*  
Dru Sottnick

*China Through American Eyes—How Different Are These Countries?*  
Rhiannon Dillon

**Panel 4: Cannon Hall 109**  
**Moderator: Barbara Abbott**  
**Assessor: Rebecca Miller**

*It's More Than A Game*  
Adriane Fraser

**Session IV: Art Demonstrations**

**3:55 – 4:35 p.m.**

**Panel 5: Faculty Lounge**

**Moderator: Elizabeth Marchioni**

**Assessor: Joshua Nobiling**

*Speak: A Spoken Word Showcase*

Kevin Johnson, Dominic McAnulty, Evan Le'Mon, Patrick Schlosser, Gail Trotter, Corey Lyons, Tahir Carr, Azana Tatiana

**Session IV: Poster Presentations**

**3:55-4:35 p.m.**

*Poster 26: Using Quartzzy To Catalog Environmental Microbial Isolates Classified*

*Using The Biology*

Lily Neff

*Poster 27: Melanoma In The First State Did Not Only Claim Bob Marley's Life*

Austin Luna, Mabel D'Souza

*Poster 28: Depression Screening 2016*

Taylor O'Donnell, Rodneisha Scott, Angelina Scott, Shelby Schirmer

*Poster 29: Digitization Of Historic St. Jones River Maps*

Olivia Gullledge

*Poster 30: RNA-Seq-Based Transcriptome Analysis To Study Differentially Expressed Salt*

*Tolerant Genes In Spartina Alterniflora And Phragmites Australis*

Josephine Veeria

*Poster 31: Psychological Effects Of Female Genital Mutilation*

Samantha McDonald

*Poster 32: Similarities And Differences Between Postpartum Depression And Postpartum*

*Psychosis And The Available Treatments*

Kezban Yilmaz

*Poster 33: Association Of Vogt-Koyanagi-Harada And Rheumatoid Arthritis: Two Types Of Disease And Their Possible Connection With One Another*

Jersey DeMesa

*Poster 34: Nest Distribution In Birds*

Alexis Moore, Amy Clark, Emily Wagner, Tahir Carr, Inayah Whitaker

*Poster 35: Top Ranked Hospital Hotpot In The US*

Dinh Ngo

*Poster 36: Analyzing The Relationship Between Mean Performance Times In Running Events  
And Demographic Information*

Anthony Calcutta, Robert Coakley, Aleya Cummings

*Poster 37: Personal Finance With FRED*

Austin Luna, Ariel Bilbrough, Michael Skivers, Robert F. Dina

*Poster 38: Obesity*

John Dougherty, Morgan Gannon, Brooke Thompson, Dinh Ngo

*Poster 39: Wesley College's Transformation To A MSI*

Allison Schwandt, Destiny Hollis, Francis Jackson, Mikayla Caldwell

*Poster 40: Nest Predation And Birds; The Effect Of Egg Number*

Caitlyn Gerwaski, Brittany Klase, Maggie Zwiebel, Lucie Sainte, Ashley Kistler

*Poster 41: Food Value And Foraging Preferences In Gray Squirrels (Sciurus Caroliensis)*

Shantae Taylor, Chaoying Feng, Angela Barnett, Jenna Gruwell, Kanisha Blake

*Poster 42: Spatial Analysis Of Ideal Farming Location*

Joseph Howard

*Poster 43: Increasing The STEM Presence On The Wesley Website*

Andreanna Jeffries

*Poster 44: Incorporating Statistics To Probe Solvent Mechanisms*

Austin Lonski

*Poster 45: Madeline Leininger: Transcultural Nursing*

Megan Otteni, Molly Fox, Brianna Fogelmann, Rancel Jolley

*Poster 46: Determining The Standard Operating Procedure (SOP) For The Use  
Of A Rotary Evaporator In The Undergraduate Organic Chemistry Lab*

Alexander Jean-Francois, Rachel Piper

*Poster 47: Mild Traumatic Brain Injuries And Risk For Chronic Traumatic*

*Encephalopathy Among Athletes And The Military*  
Yasmine Allen

*Poster 48: The Stigma Of Mental Illness In American*  
Diondre Hamm

**Reception in Honor of All Scholars Day Participants**  
**4:45-6:00 p.m.**  
**College Center 206**

**Mentors**

Barbara Abbott

Jack Barnhardt

Rebecca Benson

Susan Reddington Bobby

Hacene Boukari (DSU)

Kraiwinee Bunyaratavej

Lathadevi Chintapenta

Jessica Cook

Brantley Craig

Kathleen Curran

Angela D'Antonio

Darla Davidson

Linda DeRoche

Ron Douglas

Malcolm D'Souza

Mollee Dworkin

Charlisa Edelin

Lynn Everett

Frank Fiedler

Julie Fisher

Stephanie Holyfield

Sue Hudson (DTTC)

Kathleen Jacobs

Venu (Kal) Kalavacharla (DSU)

Eric B. Kmiec (DSU)

David Laganella

Vilma Lazo-Butera

Christine McDermott

Jerry Mench

Albee Mendoza

Joshua Nobiling

Agashi Nwogbaga

Gulnihal Ozbay

Tammy Paxton

Gwen Pursell

Natalia Rivera-Torres

Kristopher Roeske

Nancy Rubino

Kevin Shuman

Venkateswara Sripathi (DSU)

Patricia Gallo (DTTC)  
Fady Gerges, MD  
Victor Greto  
Ethan Hawkley

Stephanie Stotts  
Amy Strickland  
Yu Tian  
Derald Wentzien

### **Moderators**

Alban Urbanas  
Albee Mendoza  
Erin Perchiniak  
Cathy Nosel  
Victor Greto  
David Laganella  
Danielle Archambault  
Saharat Pongsree

Rebecca Miller  
Mary Jenson  
Jack Barnhardt  
Paul Olsen  
Barbara Abbott  
Richard Mahee  
Christine McDermott

### **Assessors**

Bill Kroen  
Lynn Everett  
Stephanie Holyfield  
Nancy Rubino  
Ethan Hawkley  
Elizabeth Marchioni  
Rebecca Miller  
Joshua Nobiling  
Gwen Pursell

KellyAnn Miller  
Amy Strickland  
Rebecca Benson  
Tammy Paxton  
Brantley Craig  
Alex Spaul  
James Wilson  
Angela D'Antonio

### **Volunteers**

Erick	Acevedo	Ndeye	Diame
Lisa	Agyeman	Marquita	Dickerson-Frisby
Sharis	Allen	Da'Vonne	Duncan
Luis	Arteaga	Vincent	Ebron
Jennifer	Bangle	La'Conya	Eley
Sondra	Bennett	Kaitlin	Forestieri
Jaedynn	Bentz	Tania	Frazier
Savannah	Bixler	Kelsey	Fromal
Rose	Bondoe	Imoni	Gee
Chardae	Booker-Hayes	Sonia	Gonzalez
Emily	Bridegam	Lauren	Gray
Daniel	Brooks	Sharron	Gross
Alexis	Bynum	Christine	Harrison
Xuwei	Cai	Daquay	Harris-Winbush
Kylie	Callaway	Jalisa	Henderson
Olivia	Chouinard	Shanee	Hill
Nina	Ciccaglione-Acevedo	Alexis	Holland
Paul	Clemons	Tymira	Holman
Lexus	Commodore	Christina	Hubert

Archael	Daniels	Raven	Hynson
Milaine	Desir	Jill	Johnston
Randy	Jolley	Imanni	Ortiz
Janae	Jones	Waldemar	Poppe
Ayowunmi	Kuforiji	Waldemar	Poppe
Kylea	Lankford	Mikayla	Richardson
Judith	Lawson	Angely	Sanchez
Hasan	Leonard-Hakim	Angely	Sanchez
Kylie	Liberty	Cynthia	Scott
Taijah	Lincoln	Najee	Segar
Ashley	Luna	Lorne	Shaw
Elizabeth F	Martin	Joshua	Short
Chelsea	McCall	Kyndal	Showell
Makenzie	McIntyre	Rodney	Snider
Cappadonna	Miller	Dacey	Spinner
Delante	Moore	Michael	Strittmatter
Nicole	Munz	Michelle	Tetteh
Katherine	Nettles	Brandon	Thomas
Bria	Newman	Alexis	Waugh
Jeanine	Olivares	Deonika	White
Bradford	Olivo	NaQuan	Wilds
Erin	O'Neill	Derrick	Williams
Madison	O'Neill	Kristin	Wissler
		Dania	Wootson

## Special Thanks

Dr. Jeffrey Gibson  
 Dr. Malcolm D'Souza  
 April Mahoney  
 Tina Heesh-Mosley  
 Emily Wood  
 Jessica Cook  
 Kristopher Roeske  
 Sierra Hayes  
 Anh Gibson  
 Wesley College SGA

Past Years' Chairs & Members of Scholars Day Committee who blazed the trail for us.

## Scholars Day Committee

Dr. Agashi Nwogbaga (Chair)  
 Dr. Albee Mendoza  
 Prof. Charlisa Edelin

Information Technology Department  
 Facility Management Department

*Charlton School Students for Their Contributions to the Art Gallery:*

Colby Pardee, Mellissa Bronson,  
 Eddie Kidwell, Eric Ballard,  
 Jasmine Hayes, Peyton Snay,  
 Keith Coleman, Ronnie Wooddus,  
 Colin Potts, Austin Bohenko

BI 407 Research Students, Psi Chi Members and Selected Members of Alpha Chi who reviewed abstracts.

Dr. Yu Tian  
 Prof. Vilma Lazo-Butera  
 Dr. Gwen R. Pursell

**Thanks also** to the national Council on Undergraduate Research (CUR) for showcasing this Scholars Day at [http://www.cur.org/conferences\\_and\\_events/special\\_offerings/urw/2017/events/#Wesley](http://www.cur.org/conferences_and_events/special_offerings/urw/2017/events/#Wesley)



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**Scholars Day is sponsored in part by the DE-INBRE and the DE-EPSCoR grants.**