Scholars Day

PROGRAM

Wesley College
Dover, Delaware

* April 19, 2018 *
About Scholars Day at Wesley College

Scholars Day has grown and become a signature annual event at Wesley College in Dover Delaware during which students present their research works and other creative activities from all disciplines to the entire community of friends and family members as well as faculty, fellow students, staff, industry leaders, members of government, and grant agencies that often attend the Scholars Day of festivities. The first Scholars Day took place on April 11, 2007. Upon approval by the then Dean of Academic Affairs (Dr. Paul DeGategno), the Faculty Scholars Day Committee (then called Scholars Day Task Force) co-chaired by Dr. Jeffrey Gibson (then a new faculty member) and Dr. Bruce Allison organized it. The first Scholars Day began with an opening address at exactly 1:00pm on that day by the then President of Wesley College, Dr. Scott D. Miller. Thirty-five students mentored by sixteen faculty members made both oral and poster presentations on that occasion. Other members of the first Scholars Day Committee for that first year were Dr. Jessica James, Dr. Karen Panunto and Dr. H. Earl Roberts.

Over the years and with the help of grant support from various grant efforts led by Dr. Malcolm D’Souza, the Scholars Day under the leadership of various Scholars Day committees has blossomed into a magnificent event. Various initiatives of the Scholars Day are made possible by the resources provided by the grant money. The introduction of Scholars Day T-shirts was a big milestone in the life of Scholars. It served both as incentive (to the students, faculty mentors, moderators, etc.) and advertisement of Scholars Day to the entire community. Around the year 2010, Scholars Day was approved by the full faculty as a standing faculty committee whose members were no longer appointed but elected by the entire faculty. In 2017, the six-person Scholars Day Committee chaired by Dr. Agashi Nwogbaga introduced both the polo shirts and sweat vests for faculty mentors to serve as enhanced incentives for their labor of love in mentoring and nurturing our students. The introduction of the polo shirts and vests also marked a key milestone and served as a visible token of appreciation for their voluntary mentorship. Scholars Day is made possible by the hard work and dedication of the student presenters and their faculty mentors who work tirelessly on their research and other creative undertakings to present at Scholars Days.

Furthermore, Scholars Day would not be a success without the countless volunteers of students, faculty and staff that step up to help on Scholars Day. But most importantly, Scholars Day would not be a success without the dedication and countless sacrifices made by the members of the Scholars Day Committee that plan and put together the Scholars Day celebration each year. They solicit and review applications and often go extra miles to organize a befitting Scholars Day event. For the Scholars Days of the following years, the Scholars Day Committee has been chaired by the following people: 2007 (Dr. Jeffrey Gibson & Dr. Bruce Allison), 2008 (Dr. Jeffrey Gibson), 2009 & 2010 (Dr. Jack Barnhardt), 2011 & 2012 (Dr. Frank Fiedler), 2013 (Dr. Alban Urbanas), 2014 (Dr. Valerie Perez & Prof. Elizabeth Marchioni), 2015 (Dr. Kraiwinnee “Nok” Bunyaratavej & Dr. Derald Wentzien), 2016 (Dr. Brantley Craig), and 2017 & 2018 (Dr. Agashi Nwogbaga). All the Scholars Day Committee members for all these years are listed in the special “Thank You” section towards the end of this program booklet. Special thanks are due to Robert E. Clark II (President of Wesley College) and Dr. Jeffrey Gibson (Provost/VPAA) for their unwavering support of the Scholars Day.

Finally, although Wesley College is a small liberal arts college, over one hundred students from various disciplines have been making presentations at Scholars Days each year in recent years especially this year and it is noteworthy that a number of the undergraduate research activities are sponsored (in part) with grants from the State of Delaware, the NIH-NIGMS-INBRE, the NSF-EPSCoR, the NASA DESGC, and the NSF S-STEM programs.
Schedule of Events

Wells Auditorium (Slaybaugh Hall 107)
1:00 – 1:15 p.m.
Welcome & Opening Remarks
Robert E. Clark II
President of Wesley College

Session I
1:25-2:05 p.m.
Oral Presentations
Art Demonstrations

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 (College Center 206)

Remarks from Dr. Agashi Nwogbaga
Professor of Mathematics and Chair of Scholars Day Committee

Invited Speaker: Dr. Gulnihal Ozbay
Professor and Extension Specialist in Natural Resource
Delaware State University

#Oral Presentations in
Slaybaugh Hall 104, Cannon Hall 7, 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 and Longwood Hall 101
**Invited Speaker**

**Dr. Gulnihal Ozbay** is a Research Professor and Extension Specialist of Natural Resources in the Department of Agriculture and Natural Resources at Delaware State University. She has advised and mentored over 300 undergraduate students in their undergraduate research projects. She has advised over 30 graduate students (27 of them have completed their M.Sc. degrees). She has also served in theses committees of other 40 graduate students.

She published over 70 peer reviewed journal articles, five book chapters, and over 50 proceedings, magazines, and extension white papers. She has received several outstanding researcher and service awards at the national, regional, and institutional levels (such as the Prestigious Coastal America Partnership Award, Distinguished Scientist Award, and Faculty Excellence Award in Research & Creative Activity 9 in 2009; the Faculty Excellence Award in Student Advising in 2010; the Morrison-Evans Outstanding Scientist Award in 2011; and the Faculty Excellence Award in Services & Community Outreach in 2012). She received her Ph.D. in Fisheries and Allied Aquacultures from Auburn University, Auburn, Alabama and earned her M.Sc. degree in Marine Bio-resources from the University of Maine. Her research interests include water quality, habitat restoration, aquatic ecology and health, sustainable marine aquaculture and fisheries, seafood safety, microbial ecology, phytoplankton dynamics, and climate change driven nutrient tracking and their sources.

She has served in the Research Advisory Committee for NOAA Living Marine Resource Cooperative Science Center and Mid-Atlantic Climate Change Advisory Committee and was appointed by the Secretary of the Delaware Department of Natural Resources and Environmental Control as a member of the Delaware Climate Change Vulnerability Assessment Steering Committee for the State of Delaware. She served as a treasurer and secretary for the United States Aquaculture Society and a former Executive Board member for the Atlantic Estuarine Research Society, and chair and co-chair of the Northeast Regional Aquaculture Center Technical Advisory Committee and Technical Advisory Committee for the Northeast Aquaculture Center. She serves as an Editorial Board Member for various journals in aquaculture, environmental and earth science disciplines. She is the Chairperson for the Faculty Research Committee and member of the Honors Council. She has been the institutional lead person for the various climate change related education grants and environmental research programs funded by NSF, USDA-NIFA, and NOAA and one of the lead team members for the Northeast Climate HUB Program. She is an institutional PI for NSF funded Maryland and Delaware Climate Change Education Assessment and Research (MADE-CLEAR) Program that will be completed by August of 2018.

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**Scholars Day 2018 Committee**

**Back Row (Left to Right):**
- Dr. Agashi Nwogbaga (Chair) 2016 – 2018
- Dr. Yu Tian 2016 – 2018
- Dr. Albee Mendoza 2016 – 2018

**Front Row (Left to Right):**
- Prof. Vilma Lazo-Butera 2016 – 2018
- Dr. KellyAnn Miller 2017 – 2019
- Prof. Darla Davidson 2017 – 2019

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Session I: Oral Presentations
1:25-2:05 p.m.

Panel 1:  Cannon Hall 7
Moderator: William Kroen
Assessor: Erin Perchiniak

Chronic Wasting Disease, its effects on White-Tailed Deer, and what it may mean for Delaware
Alena Brown

Analyzing Compendium of Study Supplements for Success in Science Courses
Julia Young

Panel 2:  Cannon Hall 110
Moderator: Sharon Wong
Assessor: Brantley Craig

Tender Stages Transition Program
Bradford Melvin

Obesity & Sleep Deprivation Calculus and Implications for College Students
Omasan Uyebi

Panel 3:  Slaybaugh Hall 104
Moderator: Alban Urbanas
Assessor: Stephanie Stotts

Long Live Mom and Pop Stores: A study of the natural and healthy groceries retail industry and strategies for competing with the juggernauts
Althea Mignone, Sarah Fryer

Childhood Lost: Happy Meals Can Lead to Obesity and McDonald’s Branding Strategy to sell more of them
Christian Earle

Panel 5: Longwood  Hall 101
Moderator: Joshua Nobiling
Assessor: Ethan Hawkley

The Journey of Delicate Butterflies
Lily Neff
Panel 1: Cannon Hall 7
Moderator: Robert Contino
Assessor: Julie Fisher

*The Impact of the International Field Study in Guatemala*
Trevor Derr, Anna Frangia, Marisa Marchegiano, Clanege Samuel, Yuly Rodriguez & Kayla Ryan

*Natural Disasters: Hurricanes, Earthquakes, etc. and How Math Helps*
Janae Jones (absent)

Panel 2: Cannon Hall 110
Moderator: Ben Pingel
Assessor: Donald Lonski

*DACA Program*
Nicole Bader

*Death In Fairytales*
Christina McTheny

Panel 3: Slaybaugh Hall 104
Moderator: Elizabeth Marchioni
Assessor: Jordan Kinsey

*Hidden Figures of Psychology – Margaret Floy Washburn*
Kaitlin Forestieri

*Hidden Figures of Psychology – Mamie Phipps Clark*
Shelby Segars

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

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

*Dust of Snow*
Alexa Cherico

*Harmony and Emotion in the Lieder of Franz Schubert*
Jacob Sasso

*French Melodie Interpretation and Composition*
Alana Nicole Walker, Elizabeth Hazlett

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

**Poster 01:** The Effects of Temperature Variation on Bean Beetles
Lily Neff, Jordan Brockwell, Christina Roe

**Poster 02:** Correlations of the Abiotic Factors that Affect the St. Jones Water System
Lily Neff

**Poster 03:** Proposed Vaccine for Dental Caries Caused by Streptococcus mutans
Kylea Lankford

**Poster 04:** Comprehending the substituent and solvent effects in ethyl esters of chloroformic acid
Matthew Dina

**Poster 06:** Comparison of the Rates of Reactions of 3-Chloropropyl Chloroformate and Propyl Chloroformate
Osama Mahmoud

**Poster 07:** An Occupational Therapy Inter-Professional Approach in a Mental Health Assertive Community Treatment (ACT) Team
Erica Horton, Jessica Hayes, Lauren Bukowski

**Poster 09:** Chemistry Rocks
Alexander Jean-Francois

**Poster 11:** Perceived Harm, Ease of Access, and Social Approval of Prenatal Cannabis Use
Jordan Brockwell

**Poster 12:** Predicting the Spread of the Zika Virus in the United States
Lily Neff, Jordan Brockwell, Josephine Veeria

**Poster 13:** Sensory Diets: Knowing the Importance of Who, How, and Why
Jenna Gruwell

**Poster 14:** Influential Women in the History of Psychology
Destynee Roberts, Kyndal Showell, Luis Arteaga, Ayowunmi Kuforiji

**Poster 15:** Staphylococcus aureus Infections Vaccine
Aditya Bajaj

**Poster 16:** Analysis of Water Quality of the St. Jones River
Sydney Hall

**Poster 17:** Discharge Precipitation Relationship for White Clay Creek in Newark Delaware
Katelynn Fry

**Poster 18:** How to Get Millennials into the Ball Park Through Partnership Sales
Destiny Davis
Poster 19: The Development of an Occupational Therapy Pro Bono Clinic for Underserved and Disadvantaged Families
   Bhumika Patel, Samantha Fulton

Poster 20: Let's Talk About Cultural Competence: A Student Perspective
   Ariana Rizzo, Stephanie Mendez

Poster 21: Graduate Teaching Assistantship Program Development for the Masters of Occupational Therapy Program
   Danielle Marshall, Matthew Montano

Poster 24: Mothering metamorphosis, managing transitions through Occupational Therapy
   LaToya Prioleau, Molly MacMillan

Poster 28: The Correlation Between Asthma and Air Quality
   Jayson Feld (absent)

Poster 29: Investigating the Potential Medicinal Properties of the Chaga Mushroom
   Courtney Dorsey

Poster 30: Keep Calm & Be Productive: The Influence of Interdisciplinary Productivity Standards in Skilled Nursing Facilities on Burnout and Job Satisfaction
   Melanie Maffei, Kaitlyn Mears

Poster 31: Patient Advocacy versus Inadequate Facility Staffing: Contributions to Elderly Patient Abuse
   Kaylynn Hall

Poster 32: Vegetation Community Response to Large Scale Tidal Marsh Restoration at Prime Hook National Wildlife Refuge in Delaware
   Kassandra Rodriguez

Poster 33: Community-Dwelling Elderly Population’s Self-Efficacy for Managing Chronic Disease: Impact of a Nursing Student Intervention
   Taylor O’Donnell, Angelina Scott, Shelby Schirmer, Rodneisha Scott

Poster 34: Leaving group affects analyses in ROCOX substituents
   Jeremy Wirick

Session III: Oral Presentations
3:05-3:45 p.m.

Panel 1: Cannon Hall 7
   Moderator: Paul Olsen
   Assessor: Kathleen Curran

Tree growth and cellular response: 20 years after a major ice storm in Kent and Sussex, Delaware
   Michael Skivers

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Comparison and Validation of Two Popular Commercial Genomic DNA Isolation Kits
Adrienne Holliday, Matthew Stone

Panel 2: Cannon Hall 110
Moderator: Ron Douglas
Assessor: Gwen Pursell

Perceived Improvements in Activities of Daily Living by Senior Arthritis Patients in Physical Therapy
Taryn Cornish

Rape Culture and Research: Process, Presentation, and Publishing
Kaitlin Forestieri

Panel 3: Slaybaugh Hall 104
Moderator: Mandi Tierney
Assessor: Rebecca Schröding

Being Conscious Through the Bullets: Gun Violence, Mental Health & the Necessity of Change
Betty Lee, Sarah Holt, Ben Janocha

An Investigation of Family Trans-Atlantic Lives: The Remarkable Story of Ayuba Suleiman Diallo (Job Ben Solomon)
James Poole

Session III: Art Demonstrations
3:05 – 3:45 p.m.

Panel 5: Faculty Lounge
Moderator: Tamala Paxton
Assessor: Joshua Nobiling

Spoken Word Performance by SPEAK
Azana-Tatjana Crawley, Savanah Love, Asia Harmon, Noah Drayton, Kai Lee

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

Panel 2: Cannon Hall 110
Moderator: Rebecca Benson
Assessor: Sharon Wong

Voting Behaviors and Patterns of Black Wesley College Students and Their Potential Impact on The 2020 Presidential Election.
Nyair Stanford

What drives YOU?
Rhiannon Dillon

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

**Poster 35:** Cellularly Understanding Chamaecyparis thyoides Resiliency to Salinity Intrusion
Olivia Gulledge

**Poster 39:** Therapeutic Use of Self and Patient Participation
Elizabeth Englert

**Poster 40:** Study of the Effects of Lymphedema Related Occupational Therapy Services on Breast Cancer
Olubukola Tifase, Seibatu Gaojia, Brandi Moore

**Poster 41:** HEADS UP Wesley College Football
Shergeel Saleem

**Poster 43:** Combination of physical therapy and nutrition on recovery following musculoskeletal injury: A systematic review
Ryan Cassidy, Marissa Perez

**Poster 44** Non-Athlete Males; Exploring Ways to Increase Retention
Tykera Tolson

**Poster 47:** Phobia
De’Mari Barnett

**Poster 48:** Molecular Profiling of Malignant Melanoma in the State of Delaware
Austin Lonski

**Poster 49:** Estimating Sediment Deposition Rates And The Influence Of Slope Along White Clay Creek Using Riparian Trees
Teric Henry

**Poster 50:** A spatial analysis of Wesley College Retention Rates
Teric Henry, Katelyn Null

**Poster 52:** Proposed Respiratory Syncytial Virus Vaccine
Shellby Bowman

**Poster 53:** ArcMap vs. ArcPro: A Comparison between ESRI Mapping Programs
Michael Skivers

**Poster 57:** Dorothea Orem
Casie Lewis, Brianna Krebs, Kaitlyn Adams, Whitney Capitano, Whitney Summerall, Brynae Bratten
Poster 58: Concussions in the NFL and the Long Term Effects
Osama Mahmoud

Poster 60: Influences on Academic Performance
Kalani Hollman

Poster 63: Screening Student Bags for Fecal Contamination
Ashley George, Lauren Benedetto

Poster 65: Parent Absenteeism: A comparison of military dependents and children of incarcerated parents
Yasmine Allen, Luis Arteaga

Poster 66: Sea Level Rise on the St. Jones River and the Effect on Forested Areas
Shawn Kauffman

Poster 67: Race Results
Aleya Cummings (absent), Anthony Calcutta (absent)

Poster 69: Data-Mining Impacts of U.S’ Mortality from Diseases of the Circulatory System, Diabetes, and Neoplasms
Morgan Gannon

Poster 70: Effects of Day Night Cycle on Bean Beetle Allele Frequency
Jeremy Wirick, Aditya Bajaj, Austin Lonski

Poster 73: Air Quality
Anthony Calcutta, Aleya Cummings, Momina Toseef, Cole Grider

Poster 74: Is Delaware a Cancer Cluster?
Samuel Meck, William Barton, Rylee Thompson

Poster 76: Assessing Eastern Oyster Crassostrea virginica Growth and Sustainability and Performance of Aquaculture Gear in the Delaware Inland Bays
Jillian Bradley, Scott Borsum, Melanie Fuoco

Poster 77: The Effect of Land Use on Atmospheric CO2
Joseph Hee
**Mentors**

Mentors with asterisks * beside their names are **five-star mentors**. Five-star mentors are current mentors who have mentored students in undergraduate research for five or more Scholars-Day years. Some of them are actually **ten-star mentor-generals** who have mentored for ten or more Scholars-Day years.

<table>
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<tr>
<th>Mentor</th>
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<td>Barbara Abbott*</td>
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<td>Rebecca Benson</td>
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<td>Malcolm D’Souza*</td>
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Sydney Hall  
Asia Harmon  
Jessica Hayes  
Elizabeth Hazlett  
Joseph Hee (DSU)  
Teric Henry  
Adrienne Holliday (DSU)  
Kalani Hollman  
Sarah Holt  
Erica Horton  
Ben Janocha  
Alexander Jean-Francois  
Belyn Jones  
Michael Skivers  
Nyair Stanfard  
Matthew Stone (DSU)  
Whitney Summerall  
Rylee Thompson  
Olubukola Tifase  
Tykera Tolson (DSU)  
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Alana Walker  
Jeremy Wirick  
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Moderators

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Elizabeth Marchioni  
Joshua Nobiling  
Paul Olsen  
Ben Pingel  
Mandi Tierney  
Alban Urbanas  
Sharon Wong  

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Erin Perchiniak  
Gwen Pursell  
Rebecca Schrodin  
Stephanie Stotts  
James Wilson
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Special Thanks

President Bob Clark II
Dr. Jeffrey Gibson (VPAA/Provost)
Dr. Malcolm D’Souza

April Mahoney
Tina Heesh-Mosley
Emily Wood
Jessica Cook
Kristopher Roeske
Sierra Hayes
Anh Gibson
Wesley College SGA

Information Technology Department
Facility Management Department
Department of Public Safety (Security)

Charlton School Students for Their Contributions to the Art Gallery:
Mellissa Bronson
Michael Sine
Jennifer Bergold
Jacob Burall
Zaviere Roberts
Patrick Sealund
Matthew Guest
Tyree Dye
Karalina Colbert-Zeman
Austin Bohenko
Tommy Gangemi
Eddie Kidwell
Dylan Groff
Naseem Stanford

Special Thanks to Past Years’ Members of Scholars Day Committee who blazed the trail for us.

**Scholars Day 2007** (April 11, 2007).
*This was the first Scholars Day. It was in the academic Year 2006-2007.*

**Scholars Day Task Force Members:**
Dr. Bruce Allison (Co-Chair)
Dr. Jeffrey Gibson (Co-Chair)
Dr. Jessica James
Dr. Karen Panunto
Dr. H. Earl Roberts

**Scholars Day 2008** (April 2, 2008).
Dr. Jeffrey Gibson (Chair)
Dr. Jack Barnhardt
Dr. Frank Fiedler
Dr. Jessica James
Dr. Karen Panunto
Dr. H. Earl Roberts
Dr. Jamie Whitman-Smithe

**Scholars Day 2009** (April 15, 2009).
Dr. Jack Barnhardt (Chair)
Dr. Keka Biswas
Dr. Frank Fiedler
Dr. Jessica James
Dr. Karen Panunto

**Scholars Day 2010** (April 14, 2010).
Dr. Jack Barnhardt (Chair)
Dr. Keka Biswas
Dr. Kraiwinee (Nok) Bunyaratavej
Dr. Linda De Roche
Dr. Frank Fiedler
Dr. Tery Griffin

**Scholars Day 2011** (April 13, 2011).
Prof. Susan Bobby
Dr. Angela D’Antonio
Dr. Lynn Everett
Dr. Frank Fiedler (Chair)
Dr. Tery Griffin
Dr. Ying Zhang

**Scholars Day 2012** (April 12, 2012).
Dr. Angela D’Antonio
Dr. Lynn Everett
Dr. Frank Fiedler (Chair)
Dr. Kathleen Jacobs
Dr. Richard Kashmar
Dr. Alban Urbanas
Scholars Day 2013 (April 18, 2013).
Dr. Kathleen Curran
Dr. Richard Kashmar
Prof. Elizabeth Marchioni
Prof. Jerry Mench
Dr. Valerie Perez
Dr. Alban Urbanas (Chair)

Scholars Day 2014 (April 15, 2014).
Dr. Valerie Perez (Co-Chair)
Prof. Elizabeth Marchioni (Co-Chair)
Dr. Kraiwinee Bunyaratavej
Dr. Kathleen Curran
Prof. Jerry Mench
Dr. Derald Wentzien

Dr. Kraiwinee (Nok) Bunyaratvej (Co-Chair)
Dr. Derald Wentzien (Co-Chair)
Dr. Brantley Craig
Dr. Stephanie Stotts
Prof. Margie McElligot
Prof. Zachary Adams

Scholars Day 2016 (April 14, 2016).
Dr. Brantley Craig (Chair)
Prof. Charlisa Edelin
Prof. Sarah Hardesty
Prof. Margie McElligott
Dr. Gwen Pursell
Dr. Stephanie Stotts

Scholars Day 2017 (April 12, 2017).
Dr. Agashi Nwogbaga (Chair)
Dr. Yu Tian
Dr. Albee Mendoza
Prof. Vilma Lazo-Butera
Prof. Charlisa Edelin
Dr. Gwen R. Pursell

Scholars Day 2018 (April 19, 2018).
Dr. Agashi Nwogbaga (Chair)
Dr. Yu Tian
Dr. Albee Mendoza
Prof. Vilma Lazo-Butera
Prof. Darla Davidson
Dr. KellyAnn Miller

Thanks to the National Council on Undergraduate Research (CUR) for showcasing this Scholars Day at https://www.cur.org/conferences_and_events/special_offerings/urw/undergraduate_research_week_events_2018/ as part of the 2018 national undergraduate research week events.

Thanks also to the national Council on Undergraduate Research (CUR) for showcasing our Scholars Day at http://www.cur.org/conferences_and_events/special_offerings/urw/2017/events/#Wesley as part of the 2017 national undergraduate research week events.
Scholars Day 2018 Committee

Back Row (Left to Right):
- Dr. Agashi Nwogbaga (Chair) 2016 – 2018
- Dr. Yu Tian 2016 – 2018
- Dr. Albee Mendoza 2016 – 2018

Front Row (Left to Right):
- Prof. Vilma Lazo-Butera 2016 – 2018
- Dr. KellyAnn Miller 2017 – 2019
- Prof. Darla Davidson 2017 – 2019
Scholars Day is sponsored in part by the DE-INBRE and the DE-EPSCoR grants.