

**16<sup>th</sup> Annual Scholarship and Creative Arts Days | April 24 & 25**



**#etownscad23**



# Scholarship and Creative Arts Day

**CELEBRATE SCHOLARSHIP  
AND CREATIVITY!**

**ETOWN**  
ELIZABETHTOWN COLLEGE

Elizabethtown College students reach success through our 21st century curricula combining high-quality professional programs, real-world experiences involving hands-on opportunities to conduct academics and research, and a 120+ year learning tradition of thinking critically, analyzing deeply, and communicating effectively.

Our annual Scholarship and Creative Arts Day (SCAD) is a forum for our students to present their academic research in their respective disciplines, while others showcase talents through recitals and a juried art exhibit. The scholarly work and presentations would not be possible without our faculty mentors who dedicate their time and expertise to helping our students succeed.

With the excellent education and training, our students go out into the world and make an impact. Our annual SCAD demonstrates our College's commitment to fostering those impacts being made and to the importance of scholarly research.

Betty Rider, President and Professor of Psychology  
Kristi Kneas, Provost and Vice President for Academic Affairs  
and Professor of Chemistry

# Scholarship and Creative Arts Day at a Glance

## Monday, April 24, 2023

### School of Human and Health Professions

- 5:00-5:50 pm      Occupational Therapy Graduate Research Symposium  
Welcome and Keynote Speaker  
Virtual
- 5:50-8:00 pm      Presentations and poster sessions  
Virtual

### School of Arts and Humanities

- 5:00 pm            36th Annual Juried Art Student Show  
Leffler Chapel-Lyet Gallery
- 7:00 pm            Master of Music Education Final Research  
Presentations  
Virtual Session
- 7:30 pm            16th Annual Scholarship Day Recital  
Leffler Chapel-Musser Aud.



# Master of Music Education Final Research Presentations

M1

**April 24, 2023 7:00 pm Virtual session**

**<https://etown.zoom.us/j/93954263031>**

**Trauma-informed Toolkit for Music Educators**

**Presenter: Michelle Kisner**

**Mentor: Dr. Patricia Winters**

**Music is a Rite: Ritual Action and Identity Formation in the Music Classroom**

**Presenter: Ian Davis**

**Mentor: Dr. Patricia Winters**

**The Music and Peacebuilding of Fred Rogers**

**Presenter: Jared Johnson**

**Mentor: Dr. Patricia Winters**

**Barriers to Music Education for Early Childhood Intervention Programs**

**Presenter: Jamie Marrs**

**Mentor: Dr. Patricia Winters**

**Utilizing Circle Processes for Whole Class Composition in a General Music Class:**

**An Autoethnographic Study of One Teacher's Experience**

**Presenter: Emily Reep**

**Mentor: Dr. Patricia Winters**

**Mattering in the Music Room**

**Presenter: Sara Alipanah**

**Mentor: Dr. Patricia Winters**

# 36th Annual Juried Student Art Show

M2

Lyet Gallery at Leffler Chapel and Performance Center

April 11-26, 2023

Jun-Cheng Liu, Arthur & Katherine Shadek Humanities Professor of Art at Franklin and Marshall College, will choose works from the student entries for our 36th Annual Juried Student Show. This show exemplifies the student commitment and talent that we have in the Department of Art and Design at Elizabethtown College. Thanks to all the students who entered our show and to our dedicated faculty. Congratulations to those in the show and to our prize winners, also chosen by Lauren Nye. We are pleased to present our 36th show as part of the SCAD program.

## Presenters:

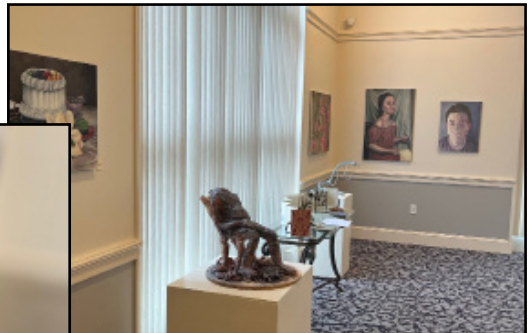
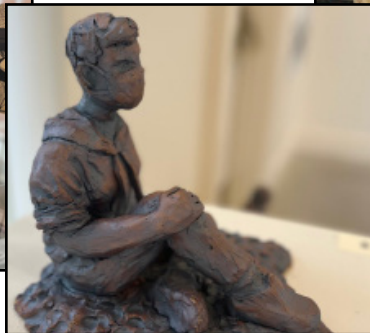
Isa Abdul-Rahman, Lea Antolick, Donovan Bailey, Brandon Baxter, Joseph Blackburn, Morgan Bleicher, Ezekiel Ciafre, Lauren Closs, Bridget Colwell, Jackie DeLorimier, Gavin Domsohn, Kayla Donaher, Karlie Fromm, Jordyn Gutshall, Xavier Hall, Lily Harris, Darby Haynes, Bethany Heidelbaugh, Laney Humble, Ruth Jacob, Kirra Johnson, Kiley Leftridge, Alice Lucas, Victoria Masciulli, Matthew McCorkle, Claudia Mendez-Sanchez, Perry Murdoch, Emma Nalesnik, Darci Ott, Sam Phillips, Antonia Raimondo, Marty Ratchford, Amy Reynolds, Tim Sauers, Gienah Sonnema, Alexa Stauffer, Ashley Van Dunk, Emily Ward, Loren Woodruff, Cassie Wyatt

## Mentors:

Kristi Arnold  
Dan Burns  
Jeff Bye  
Milt Friedly  
Katherine Hughes  
Patricia Likos Ricci  
Dante Weikel

Gallery Director: Milt Friedly

Awards Reception for the 36th Annual Student Art Show will be held in the Lyet Gallery on April 24 from 5-7 pm.



# Occupational Therapy Graduate Research Symposium 2023 Virtual Conference



5:00-5:40 PM [Opening and Keynote Speaker](#)

5:45-8:00 PM Presentations

[Event Program](#)

## Session I

**Panel Moderator(s):** Gina Fox (host)/Kerri Hample (co-host)

<https://etown.zoom.us/j/95710667323>

<b>5:45 PM</b>	<b>Occupational Therapy Educational Splinting Tool (OTEST): A Decision Tree to Branch the Clinical Reasoning Gap in Novice Practitioners and Fieldwork II Students</b>	<b># M4a</b>
Presenters:	Jillian Beneditti, Morgan Gibau, Robin Hill, Natalie Shearer	Gina Fox, OTD, OTR/L

**Panel Moderator(s):** Debbie Waltermire (host)/Nancy Carlson (co-host)

<https://etown.zoom.us/j/93278717399>

<b>5:45 PM</b>	<b>iNPH and Quality of Life: Stories of Thrivers and Survivors</b>	<b># M4e</b>
Presenters:	Emmie Brommer, Lila Brown, Sarah Hartinger, Chloe Lantz, Rachael Marino, Des'ree McCloud, Jess Principe	Nancy Carlson, PhD., OTR/L

**Panel Moderator(s):** Erica Wentzel (host)/Dan Panchik (co-host)

<https://etown.zoom.us/j/96188899784>

<b>5:45 PM</b>	<b>Utility of eTherapy as an Occupational Therapy Assessment and Intervention: A Case Study</b>	<b># M4i</b>
Presenters:	Lucy Conrey, Sofia Gonda, Allison Nardi, Emma Romeo	Daniel Panchik, D.Sc., OTR/L

## Session II

**Panel Moderator(s):** Gina Fox (host)/Kerri Hample (co-host)

<https://etown.zoom.us/j/95710667323>

<b>6:20 PM</b>	<b>Exploring Occupational Therapy's Role in Maternal Health: A Needs Assessment to Inform Education for Prevention of Musculoskeletal Disorders in Mothers</b>	<b># M4b</b>
Presenters:	Taylor Allen, Veronica Martonik, Jaime McNabb, Jillian Meitzler	Gina Fox, OTD, OTR/L

All sessions will provided closed captioning





**Panel Moderator(s): Debbie Waltermire (host)/Nancy Carlson (co-host)**  
<https://etown.zoom.us/j/93278717399>

**6:20 PM** **Holding Hands & Helping Hearts Amongst the Congenital Heart Disease Population** **# M4f**  
Presenters: Nichole Magnus, Clare Marchese, Christina Mercincavage, Kayla Wolf Deborah Waltermire, DrPH, OTR/L

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**Panel Moderator(s): Erica Wentzel (host)/Dan Panchik (co-host)**  
<https://etown.zoom.us/j/96188899784>

**6:20 PM** **Discovering the Role of School-Based Occupational Therapy Practitioners in Working with Bereaved Children** **# M4j**  
Presenters: Katlyn Harper, Sydney Leete, Zachary Petiet, Emma Sprado Erica Wentzel, OTD, OTR/L

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## Session III

**Panel Moderator(s): Gina Fox (host)/Kerri Hample (co-host)**  
<https://etown.zoom.us/j/95710667323>

**6:55 PM** **Taking the Stress Out of Eating: A Case Study to Improve Occupational Performance** **# M4c**  
Presenters: Gracie Brubaker, Jillian Nichols, Hannah Smith Kerri Hample, OTR/L, FMCHC, NBC-HWC

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**Panel Moderator(s): Debbie Waltermire (host)/Nancy Carlson (co-host)**  
<https://etown.zoom.us/j/93278717399>

**6:55 PM** **The Relationship Between Interoception and Anxiety in Autistic and Non-Autistic Adults** **# M4g**  
Presenters: Catherine Amos, Emily Martini, Madelyn Vingom Kelly Mahler, OTD, OTR/L & Rachael Thompson, BSc, PGCE with QTS, PGCert Sensory Integration, MSc Occupational Therapy

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## Session IV

**Panel Moderator(s): Gina Fox (host)/Kerri Hample (co-host)**  
<https://etown.zoom.us/j/95710667323>

**7:30 PM** **The Pandemic and Play: A Mixed-Methods Study on the Impact of the COVID-19 Pandemic on Parent-Child Play** **# M4d**  
Presenters: Jenna Curtiss, Liz Heaney, Emily Pellicano, Katie Wilkes Mikayla Kemmerly, OTD, OTR/L

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**Panel Moderator(s): Debbie Waltermire (host)/Nancy Carlson (co-host)**  
<https://etown.zoom.us/j/93278717399>

**7:30 PM** **How Does Preschool Prepare Students for Kindergarten Readiness Regarding Fine Motor Development?** **# M4h**  
Presenters: Casey Nathan, Janelle Nolt, Cindy Tellez, Allison Velardi Colette Hinton, OTD, OTR/L

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# Scholarship and Creative Arts Day Recital

## Musser Auditorium at Leffler Chapel and Performance Center

M5

April 24, 2023 at 7:30 pm

### Program

Pur dicesti, o bocca bella

Antonio Lotti (ca. 1667-1740)

Rebecca Sauder, soprano  
Dr. Justin Badgerow, piano

Sonata No. 3, K. 8

W. A. Mozart (1756-1791)

I. Allegro  
Michelle Fox, violin  
Rileigh Celsky, piano

Sonata for Clarinet and Piano, op. 167

Camille Saint-Saëns (1835-1921)

II. Allegro animato  
Lisa Sale, clarinet  
Dr. Justin Badgerow, piano

Berceuse from Dolly, op. 56, no. 1

Gabriel Fauré (1845-1924)

I. Allegretto moderato

Jeux d'enfants (Children's Games), op. 22, no. 2

Georges Bizet (1838-1875)

II. La Toupie (The Top)

Anna Rowles and Hailey Horn, piano

"Sebben crudele" from La costanza in amor vince l'inganno Antonio Caldara (ca. 1670-1736)

Sarah Moscoso, soprano  
Dr. Justin Badgerow, piano

Nocturne

Lili Boulanger (1893-1913)

Joseph Edington, flute  
Dr. Justin Badgerow, piano



# Scholarship and Creative Arts Day Recital

M5

Etude No. 17

Audrey Bower, piano

Philip Glass (b. 1937)

Sounds of the Sea

1977)

Robert R. Roden (1918-

II. Restless Tides

III. White-Cap Capers

Clarinet Ensemble

Kaylynn Leap, Faith Sale, Jennah Hoke, Ashley Poppe

Beau soir

1918)

Claude Debussy (1862-

Michael Sagedy, baritone  
Dr. Justin Badgerow, piano

Jeunes filles au jardin

Federico Mompou (1893-1987)

Mikella Wisler, piano

The Way You Look Tonight

Dorothy Fields/ Jerome Kern; arr. Julie Gaulke

Vocal Ensemble

Emily Barger, Kayla Bean, Lizvette Pappaterra, Tara Peron, Nicole Pinnella

A Caged Bird

Barbara York (1949-2020)

Micah Bidgood Enders, euphonium  
Dr. Justin Badgerow, piano

Faculty Mentors

Justin Badgerow, Douglas Bomberger, Teresa Bomberger, Anne Gross,  
Grant Moore, Paula Nelson, Faith Shiffer, Shawn Wang

# Scholarship and Creative Arts Day at a Glance

## Tuesday, April 25, 2023

### Welcome Refreshments

8:00-8:30 AM, Masters Lobby

### Opening Remarks and Keynote Event

8:30-9:15 AM, Gible Auditorium

## Showcase of Scholarship Presentations

Presentations, panel discussions, posters, portfolios, exhibits: Hoover lecture rooms, Gible Auditorium in Masters Center, Bowers Fitness Center, High Library, and College Track.

### Session I Presentations 9:30 AM to 10:50 AM

- Religious Studies
- Sociology-Amish in Modern Society
- Political Science-Honors in the Discipline
- Education- Honors in the Discipline
- Mathematics
- Business
- Biology-Honors in the Discipline
- Psychology- Honors in the Discipline
- Economics

### Session II-Presentations 11:00 AM to 12:20 PM

- Art and Design
- English-Creative Writing
- English-Honors in the Discipline
- Sociology-Amish in Modern Society
- Biology
- Chemistry
- Psychology-Honors in the Discipline
- Business
- Political Science-Public Policy Studies
- Education
- Engineering
- Computer Science
- Economics

# Scholarship and Creative Arts Day at a Glance

## Lunch Break

12:20 PM to 1:15 PM, Electric Car Race, College Track

## Session III-Presentations 1:15 PM to 2:55 PM

- Sociology
- Modern Languages-Spanish Ed,  
Spanish, French and Japanese
- CGUP
- Data Science
- Occupational Therapy
- Business
- Economics
- Social Work
- Political Science
- Education
- Biology and Chemistry

## Session IV-Posters 3:05 PM to 4:40 PM

- History/Honors Program
- Mathematics
- Biology
- Chemistry
- Education
- Public Health
- Occupational Therapy
- Computer Science
- Engineering
- Data Science
- Psychology
- Art and Design
- Environmental Science
- Biochemistry
- Chaplains office: Spiritual and  
Religious Life

## Closing Remarks, Awards and Reception

4:40 PM-5:00 PM Bowers Fitness Center

Awards ceremony -Anna Carper and Polanowski Awards

Closing Remarks & Dessert reception

# Keynote Speaker



**Dr. James MacKay, 2022 -2023 Ranck Award Prize recipient for Research Excellence will deliver the keynote remarks during the opening plenary of the 16th Annual Scholarship and Creative Arts Day.**

**April 25, 2023  
8:30 am  
Gibble Auditorium**

Making molecules, creating community, and a love of learning – Dr. MacKay will highlight his scholarship journey from being an undergraduate and aspiring chemist, to the current day where he now mentors young scholars through his research program. This talk will further present advice to undergraduates from any major about the benefits of undergraduate research and the relationships you build with the people you meet along the way.

## **Ranck Prize Background:**

Robert O. Kerr '64 and Mary Ann Kerr '64 established the Ranck Prize for Research Excellence as a permanent endowment to award a full-time faculty member of Elizabethtown College and to commend and celebrate excellence in research and commitment to his or her field of study. The prize honors John P. Ranck '58, faculty member emeritus and former chair of the Department of Chemistry and Biochemistry, for "his inspirational service to countless students at Elizabethtown College."

# 16th Annual Scholarship and Creative Arts Day



Session I  
9:30am-10:50 am



## Interdisciplinary Themes

SCAD Interdisciplinary themes were introduced during last year's event to allow attendees to experience scholarship and creative works in the same broad topic and presented through a variety of disciplinary lenses. This year, presenters were able to indicate the connection of their work to one or more of four interdisciplinary tracks, which are identified in the program using the symbols below:



Diversity, Equity and Inclusion



Sustainability



Community  
engagement/community-based  
projects/learning



Accessibility/ Improving the  
human condition/ health and  
safety

## School of Arts And Humanities

### Religious Studies: Navigating Diverse Worldviews and Ways of Life

#### Religious Studies

Nicarry 228

Panel Moderator(s): Dr. Jeffery D. Long

9:30 AM Higher Powers: The Use and Effects of Psychotropic Substances in North American and Mesoamerican Religious Contexts # 40

Presenter:



Madaline Shaffer

Mentor: Dr. Jeffery Long

9:50 AM Zen to America: an Analysis on the Relationship Between The United States and Zen Buddhism as They Both Grown and Develop in the 21st Century # 41

Presenter:



Marc Ramson

Mentor: Dr. Jeffery Long

10:10 AM Combatting Hinduphobia in the Popular Media # 42

Presenter:



Jenna Davis

Mentor: Dr. Jeffery Long

## School of Public Service

### Amish in Modern Society

#### School of Public Service: Sociology

#### Paper/Oral Presentation

Nicarry 202

Panel Moderator(s): Dr. Conrad Kanagy

9:30 AM **How to Teach the Art of Selflessness** # 20

Presenter: Samantha Small Mentor: Dr. Conrad Kanagy

9:50 AM **The Battle Against Technology in the Amish Community** # 21

Presenter: Kaeli Romanowski Mentor: Dr. Conrad Kanagy

10:10 AM **Mental Health in a Selfless Society** # 22

Presenter: Isabelle Fasick Mentor: Dr. Conrad Kanagy

10:30 AM **Diminishing Diversity and Genetic Disease: the Impact on Amish Communities** # 23

Presenter: Lahanna Means Mentor: Dr. Conrad Kanagy

### Honors in the Discipline - Political Science Panel I

#### Political Science

Nicarry 210

Panel Moderator(s): Dr. Oya Ozkanca

9:30 AM **Digital Democracy: Online Advertising and American Elections** # 30

Presenter: Andrew Furman Mentors: Dr. Oya Ozkanca, Dr. E. Fletcher McClellan

9:50 AM **The European Union & the Refugee Crisis: Exploring Differences in the Treatment of Syrian and Ukrainian Refugees in Germany and Poland** # 31

Presenter: Hunter Rittle Mentors: Dr. Oya Ozkanca, Dr. E. Fletcher McClellan

10:10 AM **Explaining the ride of authoritarianism in the Republican Party** # 32

Presenter: Ryan Montagna Mentor: Dr. April Kelly

### Legal Studies

Nicarry 210

10:30 AM **Accounting for Political Bias at the Supreme Court** # 33

Presenter: Victoria Masciulli Mentor: Dr. Matthew Telleen

## School of Human and Health Professions


### Education Honors in the Discipline Symposium

Nicarry 232


Panel Moderator(s): Dr. Shannon Haley-Mize

9:30 AM  **Promoting Self-Care in School Psychologists** # 45

Presenter: Gillian Conner Mentors: Dr. Jean Pretz, Dr. Shannon Haley-Mize

9:50 AM  **Evaluating the Quality of Preservice Training in Regard to English Language Learners** # 46

Presenter: Brooke Langowski Mentors: Dr. Peter Licon, Dr. Shannon Haley-Mize

10:10 AM  **TADIPEC: A Social Studies Curriculum for Building Understanding and Empathy of Cultural Differences in a Pre-K to 2 Classroom** # 47

Presenter: Allison Amsbaugh Mentors: Dr. James Corbin, Dr. Shannon Haley-Mize

10:30 AM  **Supporting Students with Disabilities at Elizabethtown College Through Universal Design** # 48

Presenter: Grace Hardy Mentor: Dr. Shannon Haley-Mize

## Department of Mathematics

<b>Mathematics</b>	<b>Paper/Oral Presentations</b>	<b>Hoover 110</b>
<b>9:30 AM</b>	<b>The Quest for Flat Tetrahedra</b>	<b># 60</b>
Presenter:	Mackenzie Pollachek	Mentor: Dr. Bogdan Doytchinov

## School of Business

<b>Business</b>	<b>Paper/Oral Presentations</b>	<b>Hoover 211</b>
<b>9:30 AM</b>	<b>AGA</b>	<b># 65</b>
Presenters:	Chad Dinger, Carson Shaffer, Tyler King, James Lutz, Anthony Lorino	Mentor: Mr. Michael Schmid
<b>9:50 AM</b>	<b>Hummer's Meats</b>	<b># 66</b>
Presenters:	Ryley Hummer, Alyssa Crane, Sara Colletti, Jacob Solomon, Joey Wagner	Mentor: Mr. Michael Schmid
<b>10:10 AM</b>	<b>Romano's Meat Market</b>	<b># 67</b>
Presenters:	Riley Langen, Kaitlyn Wickenheiser, Madison Nowatnick, Gavin Phillips	Mentor: Mr. Michael Schmid
<b>10:30 AM</b>	<b>RBW Trash &amp; Recycling</b>	<b># 68</b>
Presenter:	Keith Roehl	Mentor: Mr. Michael Schmid
<b>Economics</b>	<b>Paper/Oral Presentations</b>	<b>Hoover 212</b>
<b>9:30 AM</b>	<b>Analysis and Insight of the Regional Comprehensive Economic Partnership</b>	<b># 70</b>
Presenters:	Kathryn Hart, Misaki Yamaguchi	Mentor: Dr. Sanjay Paul
<b>9:50 AM</b>	<b>ASEAN Free Trade Agreement</b>	<b># 71</b>
Presenters:	Juan Arguelles Fernandez, Joshua McQueen	Mentor: Dr. Sanjay Paul
<b>10:10 AM</b>	<b>The North America Free Trade Agreement and Its Successor: An Economic and Political Analysis</b>	<b># 72</b>
Presenters:	Timothy Mackall, Laura Cardona, Kyo Ogiwara	Mentor: Dr. Sanjay Paul
<b>10:30 AM</b>	<b>Cost-Benefit Analysis of European Countries Participating in the European Union</b>	<b># 73</b>
Presenters:	Anna Laffey, Gavin O'Brien	Mentor: Dr. Sanjay Paul





# School of Sciences

## Biology Honors in the Discipline

**School of Sciences: Biology and Biotechnology** **Hoover 213**

**Panel Moderator(s):Dr. Jodi Lancaster**

<b>9:30 AM</b>	<b>Creation of ACSL4 Null HeLa cells for Differentiating Ferroptosis and Apoptosis-inducing Chemotherapeutics</b>	<b># 75</b>
Presenter:	Jackson Dardis	Mentors: Dr. Jane Cavender, Dr. Diane Bridge
<b>9:50 AM</b>	<b>Examining the Effects of Lyophilization on the Preservation of Bacteria Microbiota</b>	<b># 76</b>
Presenter:	Victoria Wert	Mentor: Dr. Debra Wohl
<b>10:10 AM</b>	<b>The antidepressants, sertraline and fluoxetine, have opposing effects on aggression in subordinate rusty crayfish (Faxonius rusticus)</b>	<b># 77</b>
Presenter:	Alex Petrocelli	Mentor: Dr. Anya Goldina
<b>10:30 AM</b>	<b>Assessing Cytokine Production in Dendritic Cells Following Tunicamycin-Induced ER Stress</b>	<b># 78</b>
Presenter:	Kim Manning	Mentor: Dr. Jane Cavender

## Psychology Honor Presentations

**Psychology** **Hoover 214**

**Panel Moderator(s):Dr. Michael Roy**



<b>9:30 AM</b>	<b>News, Anxiety, and College Students</b>	<b># 80</b>
Presenter:	Morgan Burleson	Mentor: Dr. Michael Roy
<b>9:50 AM</b>	<b>Parenting Styles and Relationship Quality in Emerging Adulthood</b>	<b># 81</b>
Presenter:	Mara Longenecker	Mentor: Dr. Michael Roy
<b>10:10 AM</b>	<b>Helicopter Parenting and Its Effects on Emerging Adults' Decision-Making Styles, Decision-Making Confidence, and Perceived Autonomy</b>	<b># 82</b>
Presenter:	Hannah Sohn	Mentors: Dr. Jean Pretz, Dr. Michael Roy
<b>10:30 AM</b>	<b>Public Attitudes Towards Inmates' Access to Mental Health Care Services</b>	<b># 83</b>
Presenter:	Aries Baringer	Mentors: Dr. Jean Pretz, Dr. Elizabeth Dalton



## Session II

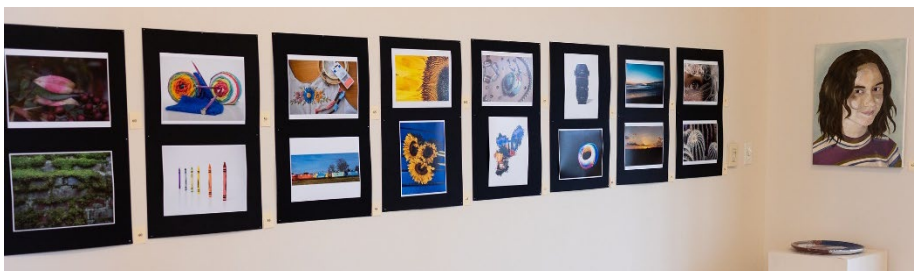
### 11:00 AM-12:20 PM

### School of Arts And Humanities

Art & Design		Art Work/presentation	Nicarry 204
9:30 AM		<b>Laser Engraving: Designing with Developing Technologies in the 21st Century</b>	<b># 90</b>
Presenter:		Hayden Mitchell	Mentors: Mr. Milton Friedly, Dr. Kathy Hughes
9:50 AM		<b>What Is Normal? - Exploring Mental Health through Art</b>	<b># 91</b>
Presenter:		Emily Ward	Mentors: Dr. Kristi Arnold, Dr. Jean Pretz
10:10 AM		<b>Market Street Redesign</b>	<b># 92</b>
Presenter:		Isa Abdul-Rahman	Mentor: Dr. Kristi Arnold
10:30 AM		<b>Laser Cutting and Engraving – Designing in the Digital Age</b>	<b># 93</b>
Presenter:		Emily Ward	Mentor: Mr. Milton Friedly

English-Creative Writing		Paper/Oral Presentation	Nicarry 228
11:00 AM		<b>Forests, Cone Snails, and the Rest of the World: Personal Connections to Nature</b>	<b># 100</b>
Presenter:		Ireland Keeney	Mentor: Ms. Erica Dolson

English		English Honors in the Discipline	Nicarry 228
		Panel Moderator(s): Dr. Tara Moore	
11:20 AM		<b>The Impact of Search Engine Optimization on the World of Digital Communications</b>	<b># 101</b>
Presenter:		Alexandra Bonicker	Mentor: Dr. Tara Moore
11:40 AM		<b>Explorations of Relationship-Based Fiction in a New Adult Novel</b>	<b># 102</b>
Presenter:		Ashley Conway	Mentor: Dr. Tara Moore
12:00 PM		<b>How Do I Fit In?: Cultural Themes Surrounding Identity in Indigenous Young Adult Literature</b>	<b># 103</b>
Presenter:		Sylver Reynolds	Mentor: Dr. Tara Moore







# School of Public Service

Amish in Modern Society		
Sociology		Nicarry 202
		Panel Moderator(s):Dr. Conrad Kanagy
11:00 AM	Plain Women: Impact of Gender and Religion on Prenatal Healthcare	# 85
Presenter:	Emma Sager	Mentor: Dr. Conrad Kanagy
11:20 AM	Amish Church - Why do they Stay?	# 86
Presenter:	Olivia Kurtz	Mentor: Dr. Conrad Kanagy
11:40 AM	Musical Expression in the Amish Community	# 87
Presenter:	Meghan Hampton	Mentor: Dr. Conrad Kanagy
12:00 PM	Disability in Amish Communities	# 88
Presenter:	Brooke Seislove	Mentor: Dr. Conrad Kanagy

Public Policy Studies		
School of Public Service: Political Science		Nicarry 210
		Panel Moderator(s):Dr. Fletcher McClellan
11:00 AM	Effects of Public Funding on Educational Achievement: A Comparison of the U.S. and Norway	# 95
Presenter:	Jalen Belgrave	Mentor: Dr. E. Fletcher McClellan
11:20 AM	The Human Cost of a Broken System: The Urgent Case for Reforming the U.S. Unemployment System in the Wake of the COVID-19 Pandemic	# 96
Presenter:	Laura Cardona	Mentor: Dr. E. Fletcher McClellan
11:40 AM	The United States' and Denmark's Approaches to Climate Policy: A Comparison	# 97
Presenter:	Marc Ramson	Mentor: Dr. E. Fletcher McClellan

## Interdisciplinary- Diversity, Equity and Inclusion Session

Education Honors in the Discipline Symposium		
Education		Nicarry 232
		Panel Moderator(s):Dr. Shannon Haley-Mize
11:00 AM	Family-Teacher Communication in the Early Childhood Classroom	# 110
Presenter:	 Maggie Heimbaugh	Mentors: Dr. Kathryn Caprino, Dr. Shannon Haley-Mize
11:20 AM	Teaching and Assessing Mathematics Literacy of Students on the Autism Spectrum	# 111
Presenter:	 Madison Fischer	Mentor: Dr. Kathryn Caprino
Criminal Justice		
		Nicarry 232
11:40 AM	Perceptions of Sexual Assault and Knowledge of Resources on a Liberal Arts College Campus	# 112
Presenter:	 Emma Nalesnik	Mentors: Ms. Frankie Frank, Dr. Michele Lee Kozimor
Public Health		
		Nicarry 232
12:00 PM	Curating an Arabic LGBTQ+ Dictionary to Destigmatize Queer Communities in the Middle East	# 113
Presenter:	 Samhar Almomani	Mentors: Dr. Robert Aronson, Ms. Frankie Frank

## School of Engineering, Math, and Computer Science

Engineering	Paper/Oral Presentations	Hoover 110
11:20 AM	<b>eTherapy App Development Phase 2</b>	# 121
Presenter:	Angelo Botticelli	Mentor: Dr. Kurt DeGoede
11:40 AM	<b>Closed-Loop Control of a Myoelectric Prosthetic Hand</b>	# 122
Presenters:	Joseph Kutteh, Nathan Griffin, Alexander Kobilnyk	Mentor: Dr. Mark Brinton
Computer Science	Paper/Oral Presentation	
12:00 PM	<b>Developing a 2D Game using Unity Game Engine</b>	# 123
Presenter:	Blake Hildebrand	Mentor: Dr. Jingwen Wang

## School of Business

Business	Paper/Oral Presentations	Hoover 211
11:00 AM	<b>Landmark Homes</b>	# 130
Presenters:	Landon Weaver, China Tinnen, Frida Sanchez-Rosalino, William Valdez, John Myers	Mentor: Mr. Michael Schmid
11:20 AM	<b>A&amp;J Restaurants</b>	# 131
Presenters:	Samantha Yanez, Christiana Mood, Aurelia Morales, Paige Keyser, Jenna Hornibrook	Mentor: Mr. Michael Schmid

Economics	Paper/Oral Presentations	Hoover 212
11:00 AM	<b>Human rights and democracy: Are we seeing an assault on the liberal international order?</b>	# 135
Presenters:	 Cody Meckes, Saki Takatsu, Kyo Ogiwara	Mentor: Dr. Sanjay Paul
11:20 AM	<b>Cost Benefit Analysis of the Comprehensive and Progressive Agreement for Trans-Pacific Partnership</b>	# 136
Presenters:	 Arianna Einsig, Alexandra Kunkel	Mentor: Dr. Sanjay Paul
11:40 AM	<b>China Rising: How Should the US and Europe Deal with an Ascendant China?</b>	# 137
Presenters:	Alexander D'Amico, Madison Holmberg	Mentor: Dr. Sanjay Paul
12:00 PM	<b>The MERCOSUR Trade Agreement</b>	# 138
Presenters:	Nicholas Georgelis, Kurt Driscoll	Mentor: Dr. Sanjay Paul

Elizabethtown College Scholarship and Creative Arts Day  
Schedule for Tuesday, April 25, 2023

Session I		Nicarry 202	Nicarry 204	Nicarry 210	Nicarry 228	Nicarry 232
	9:30 AM	Sociology: Amish in Modern Society I		Political Science: Honors in the Discipline	Religious Studies Panel: Navigating Diverse Worldviews and Ways of Life	Education: Honors in the Discipline Symposium I
	9:50 AM					
	10:10 AM					
	10:30 AM					
Session II	11:00 AM	Sociology: Amish in Modern Society II	Art & Design	Public Policy Studies Panel	English & English: Honors in the Discipline	Education: Honors in the Discipline Sym- posium II Criminal Justice and Public Health
	11:20 AM					
	11:40 AM					
	12:00 PM					
Session III	1:15 PM	Sociology			Modern Lan- guages	CGUP: Peace and Gobal Scholar Sym- posium
	1:35 PM					
	1:55 PM					
	2:15 PM					
	2:35 PM					
	2:55 PM					

# Elizabethtown College Scholarship and Creative Arts Day Schedule for Tuesday, April 25, 2023

Session I

	HOOVER 110	HOOVER 211	HOOVER 212	HOOVER 213	HOOVER 214
9:30 AM	Department of Mathematics	Business I	Economics I	Biology Honors in the Discipline	Psychology: Honors in the Discipline
9:50 AM					
10:10 AM					
10:30 AM					
11:00 AM	Engineering & Computer Science	Business II	Economics II	Biology	Psychology & Neuroscience Honors: Health Focus
11:20 AM					
11:40 AM					
12:00 PM					
1:15 PM	Data Science	Occupational Therapy & Social Work	Business	Biology & Chemistry	
1:35 PM					
1:55 PM			Sustainability Panel:		
2:15 PM			Business		
2:35 PM			Political Science		
2:55 PM			Education		

Session III

Session IV- Poster Session in Bowers Fitness Center

Photography Exhibit in The High Library

First-Year Engineering Electric Car Competition at the Outdoor track at noon

# School of Sciences

Biotechnology		Paper/Oral Presentation	Hoover 213
11:00 AM	Determining the Induction of Oncogenic Cyclin D1 Isoforms in Virally Transformed Human Diploid Fibroblasts		# 140
Presenter:	Julia Randazzo		Mentor: Dr. Jane Cavender
Biology		Paper/Oral Presentation	Hoover 213
11:20 AM	The Effect of Omentin on the Inflammatory Response of IC-21 Macrophages and DC2.4 Dendritic Cells		# 141
Presenter:	Kaylynn Leap		Mentor: Dr. Jodi Lancaster
11:40 AM	The Effect of Mitosis on Dendritic Cell (DC 2.4) Growth and Immune Function		# 142
Presenter:	Brooke Charria		Mentor: Dr. Jodi Lancaster
12:00 PM	Establishing and Evaluating TRF1-Fok1 Mutations in Immuno-pluripotent Stem Cells (iPSCs)		# 143
Presenter:	Brinley Beveridge		Mentor: Dr. Jodi Lancaster

Psychology and Neuroscience Honor: Health Focus			
Psychology			Hoover 214
		Panel Moderator(s):Dr. Elizabeth Dalton	
11:00 AM	Does TikTok Promote or Inhibit Healthy Attitudes and Behaviors?		# 145
Presenter:	Emily Prowell	Mentors: Dr. Jean Pretz, Dr. Michael Roy	
11:20 AM	Do Healthy Mornings and Student Perceptions Impact Academic Performance in College?		# 146
Presenter:	Kevin Hemingway	Mentor: Dr. Michael Roy, Dr. Jean Pretz	
Neuroscience			Hoover 214
11:40 AM	The Impact of Escalating and De-escalating Nicotine on Preference and Consumption in Sprague-Dawley Rats		# 147
Presenters:	Emma Halteman, Jeremy Reel		Mentor: Dr. Robert Wickham

# School of Engineering, Math, and Computer Science

Engineering		Electric Car Race	Outdoor track
12:20 pm	First-Year Engineering Electric Car Competition		# 148
Presenter:	Benjamin Adams, Andrew Ament, Dominic Andrews, Eli Andy, Kaylee Blair, Andrew Bolig, Brennan Bower, Melisa Bulut, Cole Burkhardt, Justin Cedeno, Haylee Chabak, Juan Conde Rodriguez, Daniel Dein, Jacob Ebert, Colby Farrisi, Jasmine Gonzalez, Jack Gress, Dylan Groshek, Caroline Hailey Casumpang, Maycen Harryn, Kayla Harvey, Owen Heffner, Leif Hoffman, James Hutchins, Michael Ickes, Keagan Kinney, Nick Kleinstuber, Tanner Lewis, Vincent Liu, Adam Lueders, Nathan Lutz, Braydon Malley, Jacob McCampbell, Alexander McClain, Nicholas McKee, Sean McNeice, Pedro Menezes de Castro Miranda, William Mickulik, Emma Nasados, Yusuf Nosaer, Juan Parra Castro, Schumy Pascal, Milo Pouchot, Nicholas Prokic, Zachary Randolph, Isaac Reichenbach, Chris Reilly, Steven Rice, Hunter Rohrbaugh, Aiden Russell, Dallas Scicchitano, Braden Scott, Samuel Senkowicz, Grant Seville, Jayden Shinnen, William Sipe, Austin Smith, Joshua Stoner, Taylor Strader, Evan Swanson, Elijah Wagner, John Weaver, Brent Wehland, Sean Welsh, Ryan Woodruff, Bradley Wright, Reese Ziegler		Mentors: Dr. Jean Batista Abreu, Dr. Kurt DeGoede





## Session III

### 1:15-2:55 PM






#### School of Public Service

<b>Sociology</b>	<b>Paper/Oral Presentation</b>	<b>Nicarry 202</b>
<b>1:15 PM</b>	<b>Hello Death, My Old Friend: The Effects of Age and Confidence in Medicine on Support for Physician-Assisted Suicide</b>	<b># 150</b>
Presenter:	Rachael Ioele	Mentors: Dr. Barbara Prince, Dr. Michele Lee Kozimor
<b>1:35 PM</b>	<b>High Time to Legalize: The Effects of Mental Health and Socioeconomic Status on Approval of the Legalization of Marijuana</b>	<b># 151</b>
Presenter:	Andy Lynch	Mentors: Dr. Barbara Prince, Dr. Michele Lee Kozimor
<b>1:55 PM</b>	<b>Daddy Don't Know: The Effects of Sex and Socioeconomic on Views of Teen Access to Birth Control Without Parental Consent</b>	<b># 152</b>
Presenter:	Olivia Morrison	Mentors: Dr. Barbara Prince, Dr. Michele Lee Kozimor
<b>2:15 PM</b>	<b>You May Now Kiss the Cheater: The Effects of Sex and Age on Acceptability of Marital Infidelity</b>	<b># 153</b>
Presenter:	Rena Rankin	Mentors: Dr. Barbara Prince, Dr. Michele Lee Kozimor
<b>2:35 PM</b>	<b>The Frogs Are Gay: The Effects of Religiosity and Age on Views of Sexual Minorities</b>	<b># 154</b>
Presenter:	Hannah Smith	Mentors: Dr. Barbara Prince, Dr. Michele Lee Kozimor


#### School of Arts And Humanities

##### Modern Languages-Spanish Education. Spanish, French and Japanese




		<b>Nicarry 228</b>
<b>1:15 PM</b>	<b>Aprovechamiento de la tecnología en el aula de lenguas para promover el desarrollo sociocultural en el aprendizaje de lenguas</b> <b>(NOTE: titles in Spanish only capitalize the first word and proper nouns)</b>	<b># 160</b>
Presenter:	Emily Smith	Mentor: Dr. Charla Lorenzen
<b>1:35 PM</b>	<b>Marianismo and Its Impact on Latina Lives</b>	<b># 161</b>
Presenter:	Lauren Closs	Mentor: Ms. Sarah Dutton
<b>1:55 PM</b>	<b>French Foreign Response to Ukraine</b>	<b># 162</b>
Presenter:	Morgan Kubik	Mentor: Dr. Vanessa Borillot
<b>2:15 PM</b>	<b>Re-Opening Japan: Evidence to Support an Earlier Covid Timeline</b>	<b># 163</b>
	<b>(This presentation will be delivered in Japanese, with the Powerpoint slides both in Japanese and English so that the audience can see what is being presented.)</b>	
Presenter:	Jacob Schell	Mentor: Dr. Nobuaki Takahashi

CGUP Peace and Global Scholars Symposium			Nicarrry 232
Center for Global Understanding and Peacemaking		Panel Moderator(s):Dr. Shannon Haley-Mize	
1:15 PM		<b>Peacebuilding Since WWII: Relations Between Japan and the United States</b>	# 170
Presenter:	Misaki Yamaguchi	Mentor: Dr. Shannon Haley-Mize	
1:35 PM		<b>The Gambia: An Analysis of Culture, Politics, and Religious Life</b>	# 171
Presenter:	Marc Ramson	Mentor: Dr. Shannon Haley-Mize	
1:55 PM		<b>Religious and Cultural Landscapes of Gambia</b>	# 172
Presenter:	Lauren Comly	Mentor: Dr. Shannon Haley-Mize	

## School of Engineering, Math, and Computer Science

Data Science			Hoover 110
1:15 PM		<b>Stroke Prediction Using Machine Learning</b>	# 180
Presenter:	Nolan Pettit	Mentor: Dr. Peilong Li	
1:35 PM		<b>Apache Spark for Wildfire Prediction</b>	# 181
Presenters:	Angelo Botticelli, Yusuke Satani	Mentor: Dr. Peilong Li	
1:55 PM		<b>Real-Time Product Suggestion for E-Commerce</b>	# 182
Presenter:	August Bednar	Mentor: Dr. Peilong Li	
2:15 PM		<b>Stock Price Prediction</b>	# 183
Presenters:	Lisa Scanlon, Gavin Pastreich	Mentor: Dr. Peilong Li	
2:35 PM		<b>Realtime and Scalable Network Traffic Analysis</b>	# 184
Presenter:	Ethan Weitkamp	Mentor: Dr. Peilong Li	

## School of Human and Health Professions

Occupational Therapy			
Paper/Oral Presentations			Hoover 211
1:15 PM		<b>Role of Caregivers in the ALS Population and the Need for Home Modifications</b>	# 190
Presenter:	Leah Deppen	Mentor: Dr. Gina Fox	
1:35 PM		<b>“Improving Accessibility through Menstruation Education for Adolescent Girls with Intellectual Disabilities”</b>	# 191
Presenter:	Erin Wittenberg	Mentor: Ms. Laura Cunningham	
1:55 PM		<b>Low Health Literacy’s Effect on Caregiver’s Access to Early Intervention Services</b>	# 192
Presenter:	Alexandria Reid	Mentor: Ms. Laura Cunningham	
Social Work			
Paper/Oral Presentations			Hoover 211
2:15 PM		<b>Investigating Difficulties in Access to Specialized Healthcare for the Homeless</b>	# 193
Presenter:	Taylor Huyck	Mentors: Mr. James Corbin, Dr. Debra Wohl	

## Interdisciplinary-Sustainability Session

Economics			Paper/Oral Presentations	
			Panel Moderator(s): Dr. Sanjay Paul, Dr. Oya Ozkanca, Dr. Peter Licon	Hoover 212
1:15 PM		<b>Russia's War Against Ukraine</b>		# 201
Presenters:		Grace Ceschan, Belle Brodbeck		Mentor: Dr. Sanjay Paul
1:35 PM		<b>Climate Change: How Should the World Tackle It?</b>		# 202
Presenters:		Alexandra Swendrowski, Jack Gress		Mentor: Dr. Sanjay Paul
1:55 PM		<b>The Decline of Globalization?</b>		# 203
Presenters:		Blake Stolarik, Nathan Wiser		Mentor: Dr. Sanjay Paul
Political Science				Hoover 212
2:15 PM		<b>From Past to Present: How Garment Workers Continue to Pay the Price for our Clothing</b>		# 204
Presenter:		Leaslie Alejandres	Mentors: Dr. Oya Ozkanca, Dr. Cristina Ciocirlan	
Education				Hoover 212
2:35 PM		<b>Climate Engineering: Potential Benefits and Ramifications</b>		# 205
Presenter:		Meghan Williams		Mentor: Dr. Peter Licon

## School of Science

Biology and Chemistry			Paper/Oral Presentations	Hoover 213
1:15 PM		<b>Expression levels of splicing factor SAM68 in virally transformed cell lines</b>		# 210
Presenters:		Emma Miller, Camilo Arenas		Mentor: Dr. Jane Cavender
1:35 PM		<b>Respecting the dead by treating the living with dignity through culturally inclusive medical practices</b>		# 211
Presenter:		Emily Acri		Mentor: Dr. Anya Goldina
1:55 PM		<b>Amino-Functionalized Extended Nucleobases for Triple Helix Formation and Recognition of the A-U and U-A Base Pairs in double-helical RNA</b>		# 212
Presenter:		Emily Harding		Mentor: Dr. James MacKay
2:15 PM		<b>Synthesis of Modified Isoorotic Acid Nucleobases to Compare Pi-stacking and Hydrogen Bonding Interactions in PNA:RNA2 Triple Helix Formation</b>		# 213
Presenter:		Kyle Hess		Mentor: Dr. James MacKay
2:35 PM		<b>Who was I?: Estimating the biological profile of a classroom skeleton</b>		# 214
Presenter:		Marissa Lesko		Mentor: Dr. Elizabeth Newell



# Session IV

## 3:05-4:40 PM

### Poster Session

Bowers Fitness Center



#### School of Sciences

##### Environmental Science

<b>3:05 PM</b>	<b>The effects of floodplain restoration on biodiversity</b>	<b># 220</b>
Presenters:	Ireland Keeney, Jessica Gutekunst	Mentor: Dr. David Bowne

##### Biology

###### COURT 1

<b>3:05 PM</b>	<b>Evaluating Barriers to Equitable Cervical Cancer Care</b>	<b># 221</b>
Presenter:	Trinity Soto	Mentor: Dr. Anya Goldina

<b>3:05 PM</b>	<b>Microorganisms, Microplastics, and Antibiotic Resistance: Macro-Problems!</b>	<b># 222</b>
Presenter:	Jordan Lilly	Mentor: Dr. Debra Wohl

<b>3:05 PM</b>	<b>Investigating ferroptosis in the model invertebrate <i>Hydra oligactis</i></b>	<b># 223</b>
Presenter:	Victor Witkofsky	Mentor: Dr. Diane Bridge

<b>3:05 PM</b>	<b>The Effect of p53 with Statin-Induced Sensitivity to Chemotherapeutics in Glioblastoma Cells</b>	<b># 224</b>
Presenters:	Courtney Katch, David Ellis	Mentor: Dr. Jane Cavender

<b>3:05 PM</b>	<b>Elastin Assembly in the Postnatal Mouse Lung During Normal Development and Disease</b>	<b># 225</b>
Presenter:	Bailey Groff	Mentor: Dr. Jane Cavender

<b>3:05 PM</b>	<b>Effectiveness of Air Filtration System on the Presence of Airborne Microbes in Dental Hygiene Rooms</b>	<b># 226</b>
Presenters:	Jazlyn Walls, Dylan Glodek	Mentor: Dr. Jane Cavender

##### Chemistry

<b>3:05 PM</b>	<b>Synthesis of a Hoogsteen-Binding Peptide Nucleic Acid Monomer with Extended Linker for Triple Helical U-A Recognition in RNA at Physiological Conditions</b>	<b># 227</b>
Presenter:	Tristan Mabee	Mentor: Dr. James MacKay

<b>3:05 PM</b>	<b>Luminescence from Metal-Organic Frameworks: Structural Modification and Small Molecule Uptake.</b>	<b># 228</b>
Presenters:	Brandon Molina, Nicholas Erisman	Mentor: Dr. Jeffrey Rood

<b>3:05 PM</b>	<b>Inorganic Synthesis and Characterization of Oxovanadium Compounds as Potential Insulin Mimetic Molecules</b>	<b># 229</b>
Presenter:	Ashley Burger	Mentors: Dr. Jeffrey Rood, Jane Cavender


##### Chemistry, Biochemistry and Molecular Biology

<b>3:05 PM</b>	<b>Synthesis and Characterization of Polymer Nanoparticles for Detection of Lead (II) in Water</b>	<b># 230</b>
Presenter:	Sagar Patel	Mentor: Dr. Lauren Toote













## Mathematics Program



Mathematics		COURT 1
3:05 PM	<b>The Decline of Arctic Sea Ice</b>	# 231
Presenter:	Matthew Oleskowitz	Mentor: Dr. Leyla Batakci

## School of Engineering, Math and Computer Science

Data Science		
3:05 PM	 <b>Facial Recognition Using Deep Learning</b>	# 232
Presenter:	Abigail Carbaugh	Mentor: Dr. Peilong Li

## School of Public Service


Global Health Country Reports		COURT 1
3:05 PM	 <b>Global Health Issues facing Burundi</b>	# 233
Presenters:	Cassidy Rohman, Faith Sheppard, Anneliz Rosario, Abigail Carbaugh	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues in Eritrea</b>	# 234
Presenters:	Emily Tissue, Maddie Fauth, Teresa Costa	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues facing Madagascar</b>	# 235
Presenters:	Kara Sullivan, Dylinn Rice, Mackenzie Schmoyer, Ashley Judd	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues facing Malawi</b>	# 236
Presenters:	Elizabeth Rajnik, Jenna Hoffmann, Sara Muha	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues facing Mozambique</b>	# 237
Presenters:	Kortny Green, Alexis McCusker, Carly Jackson	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Universal Health Care in the Context of Global Health</b>	# 238
Presenter:	Alexis McCusker	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues Facing Niger</b>	# 239
Presenters:	Dominick Santaniello, Lucas Maggipinto, Lucy Nix	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues facing Rwanda</b>	# 240
Presenters:	Madison Hennelly, Alayna Trynosky, Kady Criswell, Isabel Mattivi	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues Facing Togo</b>	# 241
Presenters:	Lucas Kohler, Pigman Jack, Luke Wentzel, Jack Craig	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Global Health Issues Facing Afghanistan</b>	# 242
Presenters:	Olivia Morrison, Brendan Guy, Aurora Lefever, Elsa Woodarek	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Prevalence of Substance Abuse Disorder with the LGBT Community on a Global Scale</b>	# 243
Presenter:	Brendan Guy	Mentor: Dr. Robert Aronson
3:05 PM	 <b>Menstrual Health Education and Access in Countries across the world</b>	# 244
Presenter:	Elsa Woodarek	Mentor: Dr. Robert Aronson




<b>Psychology</b>		
3:05 PM		<b>Knowledge and Perceptions of Amish Populations Towards Genetic Counseling</b> # 250
Presenter:	Piper Wright	Mentor: Dr. Elizabeth Dalton
3:05 PM		<b>Psychological and Biological Effects of Screen Time in Children and Adolescents</b> # 251
Presenter:	Bella Serillo	Mentors: Dr. Elizabeth Dalton, Dr. Natasha Clarke


## School of Arts And Humanities

<b>Art&amp; Design</b>		<b>COURT 2</b>
3:05 PM	<b>Moving Art: The Animation Process</b>	# 252
Presenter:	Natalie Costa Ouimet	Mentor: Mr. Milt Friedly, Mr. Dant Weikel

## School of Human and Health Professions

<b>Occupational Therapy</b>		<b>COURT 2</b>
3:05 PM		<b>Occupation-Related Repetitive Strain Injury in Visual Artists</b> # 253
Presenter:	Veronica Zerebilov	Mentor: Dr. Daniel Panchik
3:05 PM	<b>Limitations of Patient Education Brochures in the Promotion of Health Literacy Regarding Total Joint Replacement</b>	# 254
Presenter:	Elizabeth Hice	Mentor: Dr. Gina Fox
3:05 PM	<b>Fall Prevention Interventions and Education for Individual's with Parkinson's Disease</b>	# 255
Presenter:	Heather Guthrie	Mentor: Dr. Gina Fox




<b>Education</b>		<b>COURT 2</b>
3:05 PM		<b>Study of Middle School Gifted Students' Potential Perfectionism Tendencies &amp; Emotional Overexcitability</b> # 256
Presenter:	Christine Castellano	Mentor: Ms. Wendy Bellew
3:05 PM		<b>Improving Literacy in Social Studies Classes</b> # 257
Presenter:	Evan Vaughn	Mentor: Ms. Wendy Bellew
3:05 PM		<b>Impact of Middle School Student Preparation on High School Push-Out Rates</b> # 258
Presenter:	Grace Diehl	Mentor: Ms. Wendy Bellew

<b>Chaplains office: Spiritual and Religious Life</b>		<b>COURT 2</b>
3:05 PM		<b>Bidets and Their Improvement in Sanitization and the Environment</b> # 259
Presenter:	Anfal Al-Hussaini	Mentor: Rev. Amy Shorner-Johnson


<b>School of Arts And Humanities: Art &amp; Design</b>		<b>COURT 2</b>
3:05 PM	<b>Etown Scholarship</b>	# 261
Presenters:	Kayley Ambrose, Aidelis Andino, Charlize Bobbyn, Nick Garrett, Xavier Hall, Caitlin Henning, Tyreke Herbert,Michael Kanode, Joe Kutteh, Christian Lavanga, Jared Miller, Matthew Price,Maryam Rahmanian Jalin Robinson, Taylor Saba, Zoë Scheerer , Olivia Steidle, Chase Young	Mentor: Dr. Katherine Hughes

<b>School of Public Service: Sociology</b>		<b>COURT 2</b>
3:05 PM	<b>To Belong or Not to Belong: Examining the Perceptions and Value of a Pennsylvania Sociological Society Membership Among Sociologists</b>	# 262
Presenters:	Hannah Baum, Alexis Cooper, Lauren Fox, Rachael Ioele, Andy Lynch, Lucas Maggipinto, Olivia Morrison,Rena Rankin, Gina Roscoe, Hannah Smith, Issandra Solano Guante, Justin Tice, Samuel Stapf, Dylan Waller, Ryan Wittman	Mentors: Dr. Barbara Prince, Michele Lee Kozimor-King

**School of Arts And Humanities: Honors****COURT 2**

3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 263</b>
Presenters:		Rachel Merchiere, Shannon Brady	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 264</b>
Presenters:		Hudson Peck, Natalie Alexander	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 265</b>
Presenters:		Jasmine Romano, Delaney Peckham	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 266</b>
Presenter:		Eric Schubert	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 267</b>
Presenters:		Jalen Belgrave, Parker Engle	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 268</b>
Presenters:		Curstin Carpenter, Mackenzie Unger	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 269</b>
Presenters:		Ava Lammersen, William Oberle	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 270</b>
Presenters:		Ryan Kilgour, Justin Ceden	Mentor: Mr. Jean-Paul Benowitz
3:05 PM		<b>Fifty Years of Preservation and Perseverance in Marietta, Pennsylvania: The Aftermath of Hurricane Agnes (1972-2022)</b>	<b># 271</b>
Presenters:		Tori Levush, Madison Holmberg	Mentor: Mr. Jean-Paul Benowitz











**School of Engineering, Math, and Computer Science****Computer Science****COURT 3**

3:05 PM		<b>LabShare – A Cloud based Social Networking Application for Scientists</b>	<b># 280</b>
Presenters:		Ethan Lajeunesse, Michael Kennedy	Mentor: Dr. Jingwen Wang
3:05 PM		<b>Implementing a Web-Based Order Management System</b>	<b># 281</b>
Presenter:		Nathaniel Mansfield	Mentor: Dr. Jingwen Wang
3:05 PM		<b>Cyber Security for Art: Securing Your Gallery Website</b>	<b># 282</b>
Presenter:		Noah George	Mentor: Dr. Peilong Li
3:05 PM		<b>Building a Self-Driving Car with Real-Time Object Detection and Collision Avoidance Capabilities</b>	<b># 283</b>
Presenters:		Joseph Kutteh, Nathan Griffin	Mentor: Dr. Peilong Li
3:05 PM		<b>Translating Beyond Borders: An Innovative Portable Device with Offline Language Translation Capabilities</b>	<b># 284</b>
Presenter:		Freddie Sanchez	Mentor: Dr. Peilong Li



Data Science COURT 3			
3:05 PM	Speech Emotion Recognition		# 285
Presenter:	Sarah Hanks	Mentor: Dr. Peilong Li	
Data Science/Computer Science			
3:05 PM	Swinging for the Fences: Using Data Prediction Models to Enhance Baseball Fandom		# 287
Presenter:	Gavin Pastreich	Mentor: Dr. Peilong Li	
Engineering			COURT 3
3:05 PM	 Simulated Impact Force on Five Common Running Surfaces		# 290
Presenter:	Thomas Urrunaga	Mentor: Dr. Kurt DeGoede	
3:05 PM	 Engineering Community Based Project		# 291
Presenters:	Rachel Murphy, Hudson Peck, Karly Simon, Madison Stewart, Thomas Urrunaga	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 292
Presenters:	Paige Parsons, Toma Yasuda, Steven Klinefelter, Olivia Kurtz	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 293
Presenters:	Kristen Aydelotte, Natalie Barlow, Francis Swain, Collin Wolf, Ethan Zelinsky	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 294
Presenters:	Robert Baird, Grant Bolze, Gavin Domsohn, Adam Lueders	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 295
Presenters:	Rafael Sanchez, Gregory Zerbe, Nathaniel Brightup, Benjamin Clark	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 296
Presenters:	Zachary Brown, Joshua Schmitt, John Stauffer, Joseph White	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 297
Presenters:	Jesse Chesnutt, Nicholas Iraca, Robert Midura, Benjamin Robbins, Alton West	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Community Based Project		# 298
Presenters:	Olivia Goebel, Alexander Ly, Jacquelyn Nickel, Connor Oswald	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Senior Design Project		# 299
Presenters:	Evan Cameal, Lauren Comly, Kaede Goodeliunas, Avery Roberts, Trevor Whitfield	Mentors: Dr. Brenda Daily, Mark Brinton	
3:05 PM	 Engineering Senior Design Project		# 300
Presenters:	Daniel Chinchar, Xavier Hall, Ryan Hepler, Ryan Leppo, Ethan Vallone	Mentors: Dr. Brenda Daily, Mark Brinton	

## Engineering (continued)

<b>3:05 PM</b>		<b>Engineering Senior Design Project</b>	<b># 301</b>
Presenters:		Logan Crosby, Alexander D'Amico, Alexander Kobilnyk, Jason Nazarenus, Joel Shane	Mentors: Dr. Brenda Daily, Mark Brinton
<b>3:05 PM</b>		<b>Engineering Senior Design Project</b>	<b># 302</b>
Presenters:		Jean Farley, Ruth Jacob, Cassidy Pawlicki, Shane Strausser, Aaron Troutman	Mentors: Dr. Brenda Daily, Mark Brinton
<b>3:05 PM</b>		<b>Engineering Senior Design Project</b>	<b># 303</b>
Presenters:		Dylan Hairfield, Courtney Hoff, Timothy Sauers, Garrett Smith, Benjamin Watson	Mentors: Dr. Brenda Daily, Mark Brinton
<b>3:05 PM</b>		<b>Engineering Senior Design Project</b>	<b># 304</b>
Presenters:		Justin Brown, Anthony Camillo, Christopher McGill, Michael Petricoin, Steven Swain	Mentors: Dr. Brenda Daily, Mark Brinton
<b>3:05 PM</b>		<b>Engineering Senior Design Project</b>	<b># 305</b>
Presenters:		Destiny Lajes, Drew A Riley, Vincent Sabatino, Emily Ward, Samuel Wilson	Mentors: Dr. Brenda Daily, Mark Brinton

# 2022-23 Polanowski Prize

The Polanowski Prize for Excellence, which has been made possible through the generosity of Dr. Mary E. Schmidt '79 and Dr. Russell Libby, honors Dr. Frank P. Polanowski, Associate Professor of Biology Emeritus, for his inspirational service to countless students at Elizabethtown College.



The 2022-23 Polanowski Prize for Excellence in Faculty-Student Advising and Mentorship recipient is **Dr. Jane Cavender**. The award is presented to an Elizabethtown College faculty member to commend and celebrate excellence in advising and mentoring students toward successful graduate school placement and/or careers.

“For me, the Polanowski Prize is the highest honor I can receive from the College, Professor Cavender said. “I am blessed to have Frank Polanowski as a dear friend; and, to have so many wonderful students in my life. Helping all of my students succeed in life is why I love being at Etown.”

**April 25, 2023**

**4:40 pm**

**Bowers Fitness Center**

## 2022-2023 Anna Carper Excellence in Library Research Award

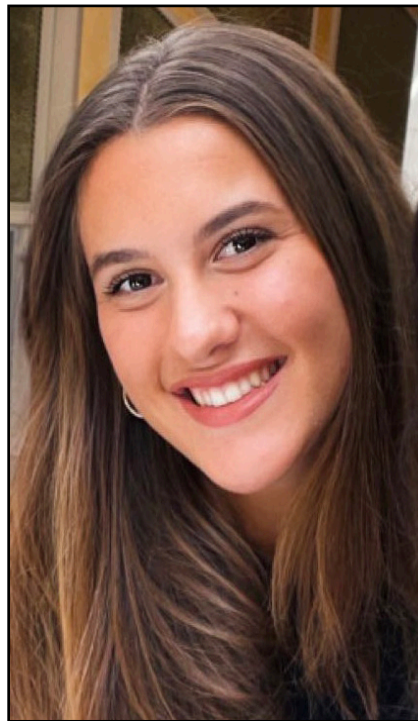
In 2009, the High Library, in honor of its 20th anniversary, inaugurated the Anna Carper Excellence in Library Research Award. The purpose of the program is to reward excellent scholarship by first-year students who make valuable use of the print and electronic collections of the High Library as well as other available information resources. The Anna Carper Excellence in Library Research Award is supported by an endowment funded by the Carper Family and named after Anna M. Carper '41, who served as the Library Director of the College from 1960 to 1986.

Congratulations to this year's winner!

### Olyvia Serillo

#### "Benefits of Equine Therapy Within Occupational Therapy."

This year's award winner is Olyvia Serillo who won for her research paper "Benefits of Equine Therapy Within Occupational Therapy." She wrote it for her English 100 Writing and Language course with Dr. Tara Moore. Olyvia is a first-year Occupational Therapy major. In a reflection essay she submitted as part of her application, she stated that she wanted to research a topic related to her major and that she "was excited to learn about something new related to [occupational therapy]." She began her research using resources available from the High Library and spent a month working on the paper through multiple drafts. Congratulations, Olyvia, on your fantastic work! The judging committee also want to thank all of our students who submitted their work this year.



2022-23 Anna Carper Excellence in Research Award Judging Committee:

Mr. Joshua Cohen, Instruction and Outreach Librarian

Ms. Clarissa Grunwald, Access Services Librarian

Mrs. Wendy Bellew, Lecturer in Education

Dr. Robert Aronson, Public Health Program Director and Lecturer



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## **SCAD Exhibit: Etown Scholarship- Photo Collages**

Monday, Apr. 24, through Friday, May 5, High Library's Main Level

Check out the nine-block collages that students in Dr. Katherine Hughes' ART 145 Digital Photography course created in Fall 2022 to represent select Etown majors. View the SCAD display on the reference shelves!

## **Submit your Projects to JayScholar**

JayScholar is an open collection of the scholarly and artistic works of students, faculty, staff, alumni, and other members of the Elizabethtown College community. JayScholar is a service of the High Library.

For more information about JayScholar, go to  
<https://jayscholar.etown.edu/>

# Scholarship and Creative Arts Day Program Cover Contest



**Congratulations to this year's winner!**

**Isa Abdul-Rahman '23**

**Artists Statement:**

In this design for SCAD I wanted to emphasize the content and products of the event. This design was tailored to the idea of creativity and research. In addition to the icons of the events, I added Lefler Chapel, the BSC, and Bower center in the background to express Etown as the ground for all of the ideas and projects students produce.