



15th Annual Scholarship and Creative Arts Day
April 25th and 26th, 2022

#etownscad22



Elizabethtown College Scholarship and Creative Arts Day, Schedule for Tuesday, April 26, 2022

Welcome refreshments 7:30 AM -8:30 AM

Opening and Keynote in Gible Auditorium 8:30 AM - 9:15 AM

Concurrent Sessions I:9:30-10:50 AM

Presentations

	Hoover 110	Hoover 114	H-211	H-212	H-213	H-214	H-215
9:30 AM							
9:50 AM	Social Work- Honors in the Discipline		School of Sciences Honors in the Discipline	Business- Applied Family Business I	School of Arts and Humanities-Religious Studies, Art and Design, Modern Languages	Physics- Honors in the Discipline & Engineering	Communications Honors in the Discipline
10:10 AM							
10:30 AM							

Concurrent Sessions II: 11:00 am-12:20 pm

Presentations

	Hoover 110	Hoover 114	H-211	H-212	H-213	H-214	H-215
11:00 AM	School of Arts and Humanities and School of Human and Health Professions-Modern Languages and Occupational Therapy	Music	School of Sciences Honors in the Discipline	Business- Applied Family Business II	Psychology	Engineering- Architectural Works	Terrorism and Counterterrorism Panel I
11:20 AM							
11:40 AM							
12:00 PM							

Lunch 12:20 1:15 PM Electric car race, College Track (#89)

Concurrent Sessions III: 1:15 - 2:55 PM

Presentations

	Hoover 110	Hoover 114	H-211	H-212	H-213	H-214	H-215
1:15 PM							
1:35 PM		School of Engineering, Mathematics and Computer Science- Data Science and Math	Occupational Therapy	Business	Psychology	Sociology	Terrorism and Counterterrorism Panel II
1:55 PM	Education- Honors and Graduate						Political Science Panel
2:15 PM							
2:35 PM							

Poster Sessions IV: 3:00 - 4:40 PM

Court 1

Court 2

Court 3

School of Arts & Humanities and School of Sciences	School of Human & Health Professions, School of Public Service and Office for Title IX Compliance Programs and Intercultural Affairs	School of Engineering, Mathematics and Computer Science
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Awards and Closing Ceremony and Reception 4:40-5:00 pm

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 25, 2022

School of Human and Health Professions

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

School of Arts and Humanities

5:30 pm-7:30 pm	35th Annual Juried Art Student Show	Leffler Chapel-Lyet Gallery
7:30 pm	15th Annual Scholarship Day Recital	Leffler Chapel-Musser Aud.

Tuesday, April 26, 2022

7:30-8:30 am	Refreshments-Coffee and tea	Masters Lobby
8:30-9:15 am	Welcome/Opening Keynote Address- Ranck Award Recipient	Gibble Auditorium
9:30-10:50 am	Session 1-Presentations	Hoover Center
11:00 am -12:20 pm	Session 2- Presentations	Hoover Center
12:20-1:15 pm	LUNCH Car race	Marketplace College Track
1:15-2:55 pm	Session 3- Presentations	Hoover Center
3:05-4:40 pm	Session 4- Posters	Bowers Fitness Center
4:40-5:00 pm	Closing Event Awards ceremony -Anna Carper and Polanowski Awards Closing Remarks & Dessert reception	Bowers Fitness Center

35th Annual Juried Student Art Show

Lyet Gallery at Leffler Chapel and Performance Center
April 14-26, 2022

Lauren Nye, Director of Exhibitions at the Susquehanna Art Museum chose 107 works out of 237 entries for our 35th 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 35th show as part of the SCAD program.

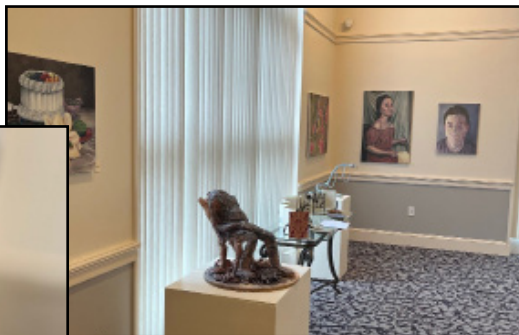
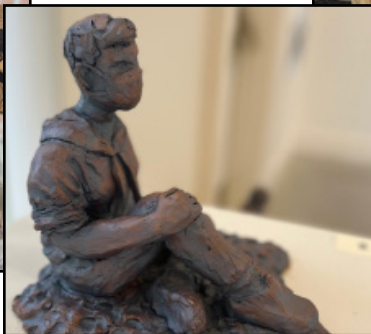
Presenters:

Isa Abdul-Rahman, Anna Aiello, Carter Balliet, Joseph Blackburn, Hugh Brolly, Damon Carr, Tea Ceresini, Ezekiel Ciafre, Lydia Ciafre, Jacob DuBois, Erin Erb, Juliana Foster, Katelyn Godfrey, Lily Harris, Darby Haynes, Bethany Heidelbaugh, Maggie Heimbaugh, Jenna Hoffman, Kady Johnson, Jakob Latham, Alice Lucas, Megan Lysek-Hagy, Ismerai Miranda, Hayden Mitchell, Erin Moore, Diemmi Nguyen, Mimi Nguyen, Hope Nibert, Esther Nolt, Kaylin Nolt, Darci Ott, Samantha Phillips, Zosia Proch, Rachel Pryslak, Sydney Rager, Amy Reynolds, Gienah Sonnema, Parker Towarnicki, Ashley VanDunk, Trisha Vazquez, Emily Ward, Celeste Workman, Keegan Wright, Liam Wright, Cassie Wyatt, Owen Yake, Carianne Youcheff, Veronica Zerebilov

Mentors:

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

Awards Reception for the 35th Annual Student Art Show will be held in the Lyet Gallery on April 26 from 5-7 pm.





Occupational Therapy Graduate Research Symposium 2022 Virtual Conference

5:00-5:40 PM Opening and Keynote Speaker

5:50-7:30 PM Presentations

7:35-8:00 PM Closing Remarks



Panel #1

Panel Moderator(s): **Judy Ericksen (Host), Keri Hample (Co-host), Catherine Amos (Co-host), Ashleigh Bell (Co-host), Lucy Conrey (Co-host)**

5:50 PM	Multi-Modality Handwriting Intervention Group: Supporting Skill Development in Primary Grades Abigail Lower, Ashley Reynolds, Emily Sipe, Victoria Young.	#1a Laura Savastano, MS, OTR/L
6:25 PM	Occupational Therapy and Recess: A Cross-Case Analysis of School-Based Practitioner Perspectives Caroline Hill, Megan MacNair, Anna Watts.	#1b Judy Ericksen, PhD, OTR/L
7:00 PM	Portrayal of Occupational Therapy on Twitter (2022): A Content Analysis Rachel Freed, Holly Phillips, Tyler Rinehimer, Emily Spangler	#1c Judy Ericksen, PhD, OTR/L

Panel #2

Panel Moderator(s): **Diane Martin (Host), Nancy Carlson (Co-host), Emily Pellicano (Co-host), Sarah Guber (Co-host)**

5:50 PM	Occupational Therapy Practitioner's Role in Addressing Screen Time in Pediatric Settings Janelle Barna, Colleen McGovern, Amanda Neef, Kate Ziegler.	#2a Nicole Brackman, MS, OTR/L
6:25 PM	Enhancing Social and Community Participation: Outcomes of an Early Intervention Sensory Motor Group Kelly Armstrong, Hannah Dinsmore, Alex Pease.	#2b Diane Martin, OTD, OTR/L
7:00 PM	Sensory Processing Difficulties of Children Diagnosed with Autism Spectrum Disorder: Mealtime Behaviors Carly Haffner, Wendy Header, Makayla Hockenbrock, Kimberly Huang.	#2c Morgan Smith, MS, OTR/L

Panel #3

Panel Moderator(s): **Terri Dennehy (Host), Gina Fox (Co-host), Robin Hill (Co-host), Emily Martini (Co-host)**

6:25 PM	Occupational Therapy Interventions to Address Sexuality Across Populations: A Survey Ailey Hostetler, Kinsey Kliment, Rebecca Matricardi, Abigail Mehring	#3a Hannah Burleigh, MS, OTR/L
7:00 PM	Occupational Impacts of Perceived Stress on Full-Time Higher Education Faculty: A Qualitative Phenomenological Study Lauren Griffiths, Natalie Magee, Dana Morykan, Samantha Petela	#3b Terri Reichley Dennehy, DEd, OTR/L

Panel #4

Panel Moderator(s): **Erica Wentzel (Host), Debbie Waltermire-Burton (Co-host), Jaime McNabb (Co-host), Christina Mercincavage (Co-host)**

5:50 PM	Phenomenological Inquiry of Trauma-Informed Care Initiative in the NICU: Nurse Perspectives #4a Veronica Christ, Alyssa DiCiano, Courtney Fitzsimons, Aiyana Tietze-Di Toro Erica Kelly Wentzel, OTD, OTR/L
6:25 PM	Experiences of Occupational Therapy Practitioners Working with Adults with Cancer in Palliative Care #4b Kaitlyn Edinger, Kathleen Lanigan, Melissa Leggett, Kim Stratton. Jenna Nguyen, MS, OTR/L
7:00 PM	What Went Wrong and What Went Right: Contextual Factors Contributing to Resilience in Rehabilitation Therapists During the COVID-19 Pandemic #4c Lyndee Anders, Juliana Potts, Kaitlyn Witmer, Sierra Zittle Heidi Weidemoyer, MS, OTR/L

Panel #5

Panel Moderator(s): **Laura Cunningham (Host), Tam Humbert (Co-host), Jillian Nichols (Co-host), Janelle Nolt (Co-host)**

5:50 PM	Exploring Grief Management Services in Long-Term Care from the Perspective of Occupational Therapists #5a Kaitlin Donahue, Emily Garvin, Elizabeth Syslo, Brianna Yukanis Beth Smalls, MS, OTR/L
6:25 PM	Exploring Mental Wellness Perspectives of Caregivers with Children Having Special Needs: An Interpretive Phenomenological Study #5b Kendall Beverly, Kimberly DeStefano, Kayla Kolivras, Teresa Provence Laura Cunningham MS, OTR/L

Panel #6

Panel Moderator(s): **Christine Kimmel (Host), Dan Panchik (Co-host), Jenna Curtiss (Co-host), Sofia Gonda (Co-host), Hannah Smith (Co-host)**

5:50 PM	Managing Dementia-Related Behaviors in Residents of Long-Term Care: A Montessori-Based Approach #6a Sarah Humphrey, Christina Ippolito, Rebecca Russell, Brinley Schmidt Robin Frye, MS, OTR/L
6:25 PM	Exploring Occupational Therapy Clinicians' Perceptions of Role-Emerging Level II Fieldwork Experiences. #6b Meghan Glaspey, Elizabeth Kimball, Rebecca Stoltzfus, Elizabeth Wanamaker Christine Kimmel, MEd, OTR/L
7:00 PM	Developing the eTherapy Smartphone Application: Clinical Perspectives on Real-Time Motion Capture Technology #6c Madeline Bender, Jenna Harne, Sophia Strock, Hannah Weaver Daniel Panchik, DSc, OTR/L

Scholarship and Creative Arts Day Recital

Musser Auditorium at Leffler Chapel and Performance Center
April 25, 2022 at 7:30 pm
Program

Loveliest of Trees (A.E. Housman)

John Duke (1899-1984)

Aaron Oliver, baritone
Justin Badgerow, piano

Woodland Sketches, op. 51, no. 1
To a Wild Rose

Edward MacDowell (1860-1908)

Gabriella Olivieri, piano

The Pied Piper
The Spell

Gordon Jacob (1895-1984)

Joseph Edington, flute

Sonata for Violin and Piano
1. Andante semplice

Aaron Copland (1900-1990)

Lisa Sale, clarinet
Justin Badgerow, piano

Scholarship and Creative Arts Day Recital

Kokopeli

Katherine Hoover (1937-2018)

Jayden Gibson, flute

Sonata for Clarinet and Piano, op. 120, no. 2
II. Allegro appassionato

Johannes Brahms
(1822-1897)

Faith Sale, clarinet
Justin Badgerow, piano

Fleur desséchée

Pauline Viardot (1821-1910)

Emily Barger, soprano
Justin Badgerow, piano

A Nightingale Sang in Berkeley Square

Eric Maschwitz/Manning Sherman;
arr. Kirby Shaw

Madison Deluca, Natalie Kerchner, sopranos
Heather Waugh, Mikella Wisler, mezzo sopranos

Scholarship and Creative Arts Day at a Glance

Tuesday, April 26, 2022

Welcome Refreshments

7:30-8:30 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

- Social Work- Honors in the Discipline
- School of Sciences Honors in the Discipline
- Business- Applied Family Business I
- School of Arts and Humanities- Religious Studies and Modern Languages
- Physics- Honors in the Discipline
- Engineering
- Communications Honors in the Discipline

Session II-Presentations 11:00 AM

- Modern Languages
- Occupational Therapy
- Music
- School of Sciences Honors in the Discipline
- Business- Applied Family Business II
- Psychology
- Engineering-Architecture Works
- Terrorism and Counterterrorism Panel I

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

- Data Science
- Mathematics
- Education- Honors and Graduate
- Occupational Therapy
- Business
- Psychology
- Sociology
- Terrorism and Counterterrorism Panel II
- Political Science

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

- History/Honors Program
- Music
- Biology
- Chemistry
- Honors in Education Symposium-Poster Session
- Public Health
- Occupational Therapy
- Engineering
- Data Science

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. Oya Dursun-Özkanca, 2021-2022 Ranck Award Prize recipient for Research Excellence will deliver the keynote remarks during the opening plenary of the 15th Annual Scholarship and Creative Arts Day.

**April 26, 2022
8:30 am
Gibble Auditorium**

The Professional Development Committee chose Dursun-Özkanca from nominations submitted by faculty peers. In addition to receiving a monetary award and a supplement to her professional development fund to support ongoing scholarly activity, Dursun-Özkanca will deliver remarks during Scholarship and Creative Arts Day.

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."

15th Annual Scholarship and Creative Arts Day



Session I 9:30-10:50 am



New this year-we are pleased to introduce two interdisciplinary themes that allow attendees to experience scholarship and creative works on the same broad topic and presented through a variety of disciplinary lenses. Presenters were able to indicate the connection of their work to one of the two interdisciplinary tracks, which are identified in the program using the symbols below:



Diversity, Equity and Inclusion



Sustainability

School of Human and Health Professions

Honors in the Discipline	Paper/Oral Presentations	Hoover 110
Social Work	Panel Moderator(s): Dr. Susan Mapp	
9:30 AM	The Impact Of Perceived Parental Support On Truancy	# 20
Presenter:	Bailey Carsten	Mentor: Dr. Susan Mapp
9:50 AM	Engaging Spanish-Speaking Parents At A Residential School	# 21
Presenter:	Madeline Mace	Mentor: Dr. Susan Mapp
10:10 AM	Lancaster County's Dual Status Youth Initiative	# 22
Presenter:	Suad Sadek	Mentor: Dr. Susan Mapp

School of Sciences

Honors in the Discipline	Paper/Oral Presentations	Hoover 211
Biology	Panel Moderator(s): Dr. Deb Wohl	
9:30 AM	Increased Expression of SAM68 In SV40 Transformed Human Diploid Fibroblast Cells and The Effect on Downstream Splicing Targets	# 25
Presenter:	Kailey Caroland	Mentor: Dr. Jane Cavender
Environmental Science		
9:50 AM	Effect Of Historic Milldam Density On Current Water Quality Indicators	# 26
Presenter:	Katie Hollen	Mentor: Dr. David Bowne
10:10 AM	Habitat Suitability Index For The Eastern Oyster Within The Chesapeake Bay Using GIS	# 27
Presenter:	Rileigh Hudock	Mentor: Dr. David Bowne
Biology		
10:30 AM	The Effect Of Poly(I:C) And IFN-A On The Immune System As Observed Through IL-12 Production By Dendritic Cells	# 28
Presenter:	Sarah Kleb	Mentor: Dr. Jodi Lancaster

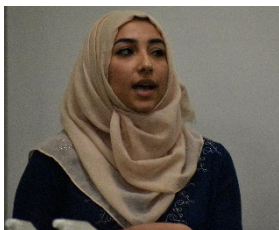
School of Business

Business Administration		Applied Family Business Research Paper/Oral Presentations	Hoover 212
			Panel Moderator(s): Dr. Petru Sandu
9:30 AM	Monumental Supply Company - A Family Business Case Study		# 30
Presenters:	Lucas Carr, Matthew Fick, Jeffrey Bennett, John Klinger		Mentor: Dr. Petru Sandu
9:50 AM	Stauffer Glove And Safety - A Family Business Case Study		# 31
Presenters:	Benjamin Walter, Chris Mirabile, Nicholas Hartz, Massimo Mazzella		Mentor: Dr. Petru Sandu
10:10 AM	Elge Precision Machining - A Family Business Case Study		# 32
Presenters:	Nick Peticca, Rielly Dugan, Jeremy Hawk, Brayden Schuyler		Mentor: Dr. Petru Sandu
10:30 AM	Benner Insurance Agency - A Family Business Case Study		# 33
Presenters:	Tristan Benner, Keely Grim, Sydney Reich, Autumn Case, Garret Wilson		Mentor: Dr. Petru Sandu




School of Arts and Humanities

Art and Design		Paper/Oral Presentations	Hoover 213
			Panel Moderator(s): Dr. Nobuaki Takahashi and Ms. Naomi Kraenbring
9:30 AM	The Art And Science Of Violin Making And Restoration		# 40
Presenter:	Emily Ward		Mentor: Dr. Kristi Arnold
Religious Studies			
9:50 AM	Comparing Women's Head Coverings In Judaism And Islam		# 41
Presenter:	Esther Nolt		Mentor: Mrs. Naomi Kraenbring
Modern Languages			
10:10 AM	Globalization In Japan: Rakugo As A Gateway For Foreigners		# 42
	(This Presentation Will Be Delivered In Japanese with visual aids in Japanese and English)		
Presenter:	Ariel Hampton		Mentor: Dr. Nobuaki Takahashi
10:30 AM	The Influence Of Motivation In The Instruction Of Language Learners		# 43
Presenter:	Brooke Bergman		Mentor: Dr. Charla Lorenzen




Art and Design		Exhibit	High Library
All day	Nature's Likeness		# 44
Presenters:	Micah Ballew, Sarah Barrett, Emilie Brinser, Hugh Brolly, Katelyn Godfrey, Maggie Heimbaugh, Sabriah Hussien, Kady Johnson, Chris Karwan, Surles Kerrigan, Alice Lucas, Erin Moore, Diemmi Nguyen, Mimi Nguyen, Kaylin Nolt, Frankie Ohlson, Ethan Smith, Parker Towarnicki, Leigh Ungerleider, Carianne Youcheff		Mentor: Dr. Katherine Hughes



School of Engineering, Mathematics, and Computer Science

Honors in the Discipline	Paper/Oral Presentations	Hoover 214
Physics		Panel Moderator(s): Dr. Kurt DeGoede
9:30 AM	Programming A Parrot Anafi Drone To Perform Useful Tasks	# 45
Presenter:	Colin Elliot	Mentor: Dr. William Stuckey
		
Engineering		
9:50 AM	Real-Time Control Of A Virtual Arm Using Surface Electromyography	# 46
Presenters:	Nathan Griffin, Alexander Kobilnyk	Mentor: Dr. Mark Brinton
		
10:10 AM	Etherapy: The Next Generation Of Physical and Occupational Therapy	# 47
Presenter:	Colin Elliot	Mentor: Dr. Kurt DeGoede
		
10:30 AM	Low-Cost, Biomimetic, Vibrotactile Stimulation For Non-Invasive Sensory Feedback	# 48
Presenters:	Joseph Kutteh, Alexander Kobilnyk	Mentor: Dr. Mark Brinton

School of Public Service

Communications Honors in the Discipline	Hoover 215
Public Relations	Panel Moderator(s): Dr. Kelly Poniatowski and Dr. Kirsten Johnson
9:30 AM	Gender Stereotypes In Survivor
Presenter:	Jessica Freels
	Mentors: Dr. Matthew Telleen, Dr. Kelly Poniatowski
	
Digital Media Production	
9:50 AM	Gender Bias In Media Coverage Of The United States Women's Gymnastics Team At The Tokyo 2020 Olympics
Presenter:	Olivia Moyer
	Mentors: Dr. Kirsten Johnson, Dr. Kelly Poniatowski
	
Public Relations	
10:10 AM	Instagram Engagement: Comparing Sportswear Companies To Running Brands
Presenter:	Christian Schaaf
	Mentor: Dr. Kelly Poniatowski
	





Session II

11:00 AM-12:20 PM



School of Arts & Humanities and School of Human & Health Professions

Diversity, Equity and Inclusion Panel

Hoover 110

Modern Languages

Panel Moderator(s): **Mrs. Laura Cunningham**

11:00 AM Representation Of Spanish Speakers In US Healthcare # 55

(This Presentation will be given in Spanish)



Presenter: Des'ree McCloud

Mentor: Dr. Charla Lorenzen

11:20 AM El Alfabetismo En Salud: Otra Barrera Para Los Hispanohablantes En El Sistema De Salud En Los Estados Unidos # 56

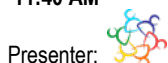


Presenter: Rachel Gould

Mentor: Dr. Charla Lorenzen

Occupational Therapy

11:40 AM Improving Occupational Therapists' Access To Interoceptive Language When Treating Using American Sign Language # 57



Presenter: Lucy Conrey

Mentor: Ms. Laura Cunningham

12:00 PM Podcasts And Parkinsons # 58



Presenter: Chloe Lantz

Mentors: Dr. Terri Dennehy, Dr. Conrad Kanagy

School of Arts and Humanities

Music

Hoover 114

Panel Moderator(s): **Dr. Gene Behrens**

11:00 AM Influence Of Instrument Timbre On Identifying Intended Emotion Expressed In Short Improvisations # 59

Presenters: Hunter Eshbach, Cara Warntz

Mentor: Dr. Gene Behrens

11:20 AM Ability To Identify Intended Movement Of Short Improvisations And Influence Of Music Components # 60

Presenters: Julie Nitowski, Heather Waugh

Mentor: Dr. Gene Behrens

School of Business

Business Administration

Applied Family Business Research

Hoover 212

Panel Moderator(s): **Dr. Petru Sandu**

11:00 AM The Main Determinants Of Family Business Resilience # 70

Presenters: Lauren Kauffman, Hannah Smith, Alex Kilgour, Micah Ballew, Eric Mark

Mentor: Dr. Petru Sandu

11:20 AM Building A Vibrant Family Business Culture # 71

Presenters: Matthew Fick, Gabriella Brown, Lucas Carr, Jessica D'Iorio

Mentor: Dr. Petru Sandu

11:40 AM Human Resources Issues In Family Businesses - Managing Talent # 72

Presenters: Jacob DuBois, Lila Bolze, Elizabeth LePore, Veronica Martonik, Aidan Trynosky

Mentor: Dr. Petru Sandu

School of Sciences

Honors in the Discipline		Hoover 211
Biology	Panel Moderator(s): Dr. Deb Wohl and Dr. Jane Cavender	
11:00 AM	Invasive Crayfish <i>Faxonius rusticus</i> do not Prefer Pheromones of Conspecifics from Breeding Seasons	# 65
Presenter:	Michelle Yohe	Mentor: Dr. Anya Goldina
Chemistry		
11:20 AM	Synthesis of Modified Isoorotic Acid Based Extended Heterocyclic Nucleobases Capable Of Sequence Selectively Hydrogen Bonding To Double Helical RNA	# 66
Presenter:	John Talbott	Mentor: Dr. James MacKay
Biology and Environmental Sciences		
11:40 AM	SV40 T-Antigen Sensitization Of Human Cells To Erastin And Cisplatin-Induced Death: Apoptosis Or Ferroptosis?	# 67
Presenter:	John Hanson	Mentor: Dr. Jane Cavender
12:00 PM	Transactivation Of The SAM68 Promoter By Simian Virus 40 Tumor Proteins	# 68
Presenters:	Kevin Ferguson, Kailey Caroland	Mentor: Dr. Jane Cavender

Psychology		Psychology Session 1	Hoover 213
		Panel Moderator(s): Dr. Jean Pretz	
11:00 AM	Parental Education Expectations: Academic Achievement, Perfectionism, And Self-Esteem		# 75
Presenter:	Ashley Mooney		Mentor: Dr. Elizabeth Dalton
11:20 AM	Tiktok's Influence On Political Engagement		# 76
Presenter:	Maggie Harbord		Mentor: Dr. Jean Pretz
11:40 AM	The Impact Of Visualization And Mental Toughness On Athletic Performance		# 77
Presenter:	Sierra Kohl		Mentor: Dr. Jean Pretz
12:00 PM	Exploring The Effects Of Nicotine On Reward Learning In Female Sprague-Dawley Rats		# 78
Presenter:	Brendan Atticks		Mentor: Dr. Robert Wickham

School of Engineering, Mathematics and Computer Science

Architectural Works		Paper/Oral Presentations	Hoover 214
Engineering	Panel Moderator(s): Dr. Joseph Wunderlich and Mr. Colton Shriner		
11:00 AM	8th Annual Year-End Architectural Critiques session 1		# 80
Presenters:	Colton Shriner, Ruth Jacob, Nickolas Sieber, Brooklyne Wiley, Isa Abdul-Rahman, Hugh Brolly, Zach Silfies, Megan Lysek-Hagy, Devon Moravec		Mentor: Dr. Joseph Wunderlich
11:20 AM	8th Annual Year-End Architectural Critiques session 2		# 80
Presenters:	Colton Shriner, Ruth Jacob, Nickolas Sieber, Brooklyne Wiley, Isa Abdul-Rahman, Hugh Brolly, Zach Silfies, Megan Lysek-Hagy, Devon Moravec		Mentor: Dr. Joseph Wunderlich

School of Public Service

Terrorism and Counterterrorism Panel I

Political Science

Hoover 215

Panel Moderator(s): **Dr. Oya Dursun-Özkanca**

11:00 AM **Pennsylvania State Policy Response To The 2018 Pittsburgh Synagogue Shooting** **# 85**
Presenter: Casey Fellingner Mentor: Dr. Oya Dursun-Özkanca

11:20 AM **What Went Wrong? An Analysis Of The Israeli-Palestinian Conflict: April 2021** **# 86**
Presenters: Madison DeLuca, Riley Becker, Steven Schreffler Mentor: Dr. Oya Dursun-Özkanca

11:40 AM **The Implications Of Boko Haram's Chibok Schoolgirl Attack** **# 87**
Presenters: Zoe Buchmann, Laura Cardona, Kayla Schultz, Timothy Zeiber Mentor: Dr. Oya Dursun-Özkanca

12:00 PM **The Use Of Social Media In ISIS Recruiting And How Governments And Companies Respond** **# 88**
Presenters: Quinn Pepper, Paul Willauer, Ryan Montagna Mentor: Dr. Oya Dursun-Özkanca

School of Engineering, Mathematics and Computer Science

Car Race

Elizabethtown College Track

12:20 PM **First-Year Engineering Electric Car Competition** **# 89**
Presenters: Kristen Aydelotte, Robert Baird, Andrew Boeren, Grant Bolze, Zachary Brown, Derrick Camack, Jesse Chesnutt, Benjamin Clark, Joseph Culkin, William Eddings, Dylan Fitzgerald, Anthony Gioffre, Olivia Goebel, Nathan Hrenko, Nicholas Iraca, Lucas Kaspro, Steven Klinefelter, Ethan Kosits, Nathan Loucks, Alexander Ly, Danielle Messina, Robert Midura, Rachel Murphy, Jacquelyn Nickel, Connor Oswald, Hudson Peck, Benjamin Robbins, Rafael Sanchez, Joshua Schmitt, Karly Simon, John Stauffer, Madison Stewart, Francis Swain, Thomas Urrunaga, Alton West, Joseph White, Collin Wolf, Toma Yasuda, Michael Young, Yeabsira Zegeye, Ethan Zelinsky, Gregory Zerbe
Mentors: Dr. Jean Batista Abreu, Dr. Mark Brinton





Session III 1:15-2:55 PM




School of Engineering, Mathematics and Computer Science

Data Science

Hoover 114Panel Moderator(s): **Dr. Peilong Li**

- | | | |
|----------------|---|---|
| 1:15 PM | Natural Language Processing in the Metaverse | # 90 |
| Presenter: | Matthew Grohotolski | Mentor: Dr. Peilong Li |
| 1:35 PM | Alumni Data Collection: LinkedIn Information Retrieval | # 91 |
| Presenter: | Paige Phillips | Mentors: Dr. Peilong Li, Dr. Sakar Sigdel |

Mathematics



- | | | |
|----------------|---|-----------------------------|
| 1:55 PM | Identifying Factors Associated With Whether Individuals Received COVID Unrelated Medical Care Or Not Because Of The COVID Pandemic | # 92 |
| Presenter: |  Sarah Hanks | Mentor: Dr. Sakar Sigdel |
| 2:15 PM | Applications Of Linear Algebra On Fetal Alcohol Syndrome | # 93 |
| Presenter: | Christopher Talluto | Mentor: Dr. Bobette Thorsen |
| 2:35 PM | Understanding Math Anxiety; A Study Of Pre-Service Teachers' Confidence | # 94 |
| Presenter: | Livia Marga | Mentor: Dr. Leyla Batakci |

School of Human and Health Professions

Education

Education Department Honors and Graduate Presentations

Hoover 110Panel Moderator(s): **Dr. Shannon Haley-Mize**

- | | | |
|----------------|--|--|
| 1:55 PM | Fine Arts Integration In Early Childhood Education Classrooms | # 97 |
| Presenter: | Emily Flach | Mentors: Dr. Leigh Shannon Haley-Mize, Dr. Kevin Shorner-Johnson |
| 2:15 PM | Social-Emotionally Conscious Teaching - A Resource Toolkit For Educators | # 98 |
| Presenters: |  Shannon Kerwin, Rebecca Edenfield | Mentor: Dr. Leigh Shannon Haley-Mize |
| 2:35 PM | Making Good The Enemy Of Great": On Bayard Rustin And The Sociopolitics Of Identity, Legacy | # 99 |
| Presenter: |  Zoe 'Dorian' Williams | Mentors: Dr. Leigh Shannon Haley-Mize, Dr. Jeffery Long |

Occupational Therapy

Hoover 211Panel Moderator(s): **Dr. Deborah Waltermire-Burton**

- | | | |
|----------------|---|---|
| 1:15 PM | Increasing Accessibility In A Children's Summer Camp | # 100 |
| Presenter: | Jenna Curtiss | Mentor: Dr. Judy Ericksen |
| 1:35 PM | Exploring The Impact Of Playing-Related Musculoskeletal Disorders And Injuries Of Collegiate Instrumental Musicians On Occupational Engagement | # 101 |
| Presenter: | Jillian Nichols | Mentor: Dr. Daniel Panchik |
| 1:55 PM | Playgrounds Should Be A Place For All Children | # 102 |
| Presenter: | Emily Pellicano | Mentors: Dr. Judy Ericksen, Dr. Deborah Waltermire-Burton |
| 2:15 PM | Dissecting Personhood In Occupational Therapy Models | # 103 |
| Presenter: | Emma Romeo | Mentor: Dr. Judy Ericksen |
| 2:35 PM | A SWOT Analysis Of Entrepreneurial Occupational Therapy In Community-Based Practice | # 104 |
| Presenter: | Hannah Smith | Mentor: Mrs. Christine Kimmel |

School of Business

Economics

Hoover 212

Panel Moderator(s): **Dr. Sanjay Paul**

1:15 PM **Outside Spending In The 2020 Georgia Elections For The U.S. Senate** **# 105**
 Presenter: Brooke Wilson Mentors: Dr. Sanjay Paul, Dr. E. Fletcher McClellan

Finance

1:35 PM **Impact Of COVID19 On Energy Sector – A Comparative Study Of The US And U.K** **# 106**
 Presenter: Nicholas Mich Mentor: Dr. Emma Neuhauser

School of Sciences

Psychology

Psychology session 2

Hoover 213

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

1:15 PM **Art Experience, Art Enjoyment, And Fixed/Growth Mindset: Clues For The Case For Art Therapy** **# 110**
 Presenter: Hope McQuoid Mentor: Dr. T. Evan Smith

1:35 PM **Higher Education Professors Adapting To Online Teaching** **# 111**
 Presenter: Jocelyn Kosik Mentor: Dr. Michael Roy

1:55 PM **Media Representation Of LGBTQ+ Communities** **# 112**
 Presenter: Victoria Vaughn Mentor: Dr. T. Evan Smith

2:15 PM **College Adjustment During A Global Pandemic** **# 113**
 Presenter: Carly Patterson Mentor: Dr. Michael Roy



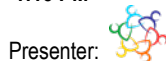
School of Public Service

Sociology

Hoover 214

Panel Moderator(s): **Dr. Michele Lee Kozimor**

1:15 PM **Being LGBTQIA And A Jay: An Ethnographic Study Of LGBTQ+ Experiences At Elizabethtown College** **# 115**



Presenter: Maximus Miller

Mentor: Dr. Michele Lee Kozimor

1:35 PM **In The Crosshairs:The Effects Of Political Ideology And Sex On Support For Gun Control** **# 116**

Presenter: Anita Smith

Mentor: Dr. Michele Lee Kozimor

1:55 PM **Excessive Or Acceptable? The Effects Of Race, Gun Ownership, And Political Ideology On Approval Of Police Use Of Force** **# 117**

Presenter: Shelby Grego

Mentor: Dr. Michele Lee Kozimor

2:15 PM **A Lack Of Trust Or An Abundance Of Fear? The Effects Of Generalized Trust And Trust In Social Institutions On Fear Of Neighborhood** **# 118**

Presenter: Nyvani Molina

Mentor: Dr. Michele Lee Kozimor

2:35 PM **Does Learning Transfer? A CBR Project Assessing The Development Of Writing Skills At Elizabethtown College** **# 119**

Presenters: Maximus Miller, Nyvani Molina, Aidan Schweizer, Emma Nalesnik, Brianna Kain, Elizabeth Zeiber, Cecilia Stoner, Kelvin Del Cid, Shelby Grego, Angelique Hawkins, Claudia Mendez-Sanchez, Evan Schwab, Garrett Schwartzbeck, Anita Smith, Justin Tice, Gillian Toomey, Tyler Wagner, Jamie Wood

Mentor: Michele Lee Kozimor

Terrorism and Counterterrorism Panel II

Political Science

Hoover 215

Panel Moderator(s): **Dr. Oya Dursun-Özkanca**

1:15 PM **The International Impact Of Terrorism In The Yemeni Civil War** **# 120**

Presenters: Hunter Rittle, Brendan Guy, Gabryel Sewell

Mentor: Dr. Oya Dursun-Özkanca

1:35 PM **The 2016 Brussels Bombings: An Analysis** **# 121**

Presenters: Alexander Waskiewicz, John D'Amico, Olivia Morrison, Marc Ramson

Mentor: Dr. Oya Dursun-Özkanca

1:55 PM **How Did Social Media Influence The 2015 Paris Terror Attacks?** **# 122**

Presenters: Jessica Freels, Andrew Furman, Tim Mackall, Matthew Wilt

Mentor: Dr. Oya Dursun-Özkanca

Political Science

Hoover 215

Panel Moderator(s): **Dr. Fletcher McClellan**

2:15 PM **The International Court Of Justice: A Potential Neutral System In A Biased Political World** **# 123**

Presenter: Zoe Buchmann

Mentors: Dr. Oya Dursun-Özkanca,
Dr. E. Fletcher McClellan

2:35 PM **Pharmaceutical Profiteering: How Did We Get Here?** **# 124**

Presenter: Joseph Olah

Mentor: Dr. E. Fletcher McClellan



Session IV

3:05-4:40 PM

Poster Session

Bowers Fitness Center



Court 1-Schools of Arts & Humanities and Sciences

Biochemistry & Molecular Biology

3:05 PM	Synthesis of Photosensitizer Molecules: Microwave Assisted Synthesis of Homo- And Hetero-Substituted Tetraphenyl-Class Porphyrins	# 200
Presenter:	William Davis	Mentor: Dr. Thomas Hagan
3:05 PM	Incorporation of Luminescent Osmium Complexes Into Metal-Organic Frameworks: Optimization of Osmium Complex Synthesis and Effect of MOF Structure on Complex Inclusion and Emission	# 201
Presenter:	Brandon Molina	Mentor: Dr. Jeffrey Rood
3:05 PM	Characterizing Ferroptosis In The Model Invertebrate Hydra Vulgaris	# 202
Presenters:	Darci Ott, Jackson Dardis, Victor Witkofsky	Mentor: Dr. Diane Bridge
3:05 PM	Distribution of Hydra Species in South Central Pennsylvania Lakes	# 203
Presenters:	Kayla Morrill, Katie Hollen, Riley Moore	Mentor: Dr. Diane Bridge
3:05 PM	Differences in Behavior Between Species of Hydra, a Model Organism For Neurobiological Research	# 204
Presenter:	Alexandra Gates	Mentor: Dr. Diane Bridge

History/Honors

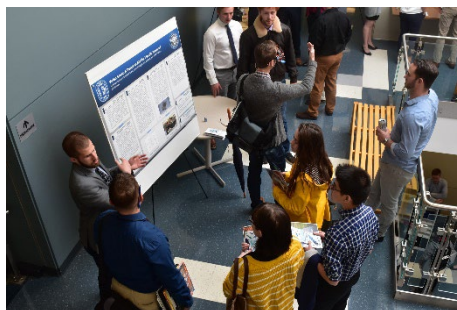
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 210
Presenters:	Patrick O'Brien, Abigail Sholes	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 211
Presenters:	Caellie Cobb, Cassandra Peris	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 212
Presenters:	Gavin McCabe, Emilie Brinser	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 213
Presenters:	Madaline Shaffer, Ezekiel Ciafre	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 214
Presenters:	Jordan Lilly, Hunter Reidenbach	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 215
Presenters:	Eric Schubert, Jackson Lager	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 216
Presenters:	Samantha Phillips, Ruth Jacob	Mentor: Mr. Jean-Paul Benowitz
3:05 PM	"Market Street Marietta, Pennsylvania: 300 Years of Economics Along The Susquehanna River"	# 217
Presenter:	Kyle Cappucci	Mentor: Mr. Jean-Paul Benowitz

Music

3:05 PM	Influence Of Instrument Timbre On Identifying Intended Emotion Expressed In Short Improvisations	# 218
Presenters:	Hunter Eshbach, Cara Warntz	Mentor: Dr. Gene Behrens
3:05 PM	Ability To Identify Intended Movement of Short Improvisations and Influence of Music Components	# 219
Presenters:	Julie Nitowski, Heather Waugh	Mentor: Dr. Gene Behrens

Chemistry

3:05 PM	Amino Functionalized Extended Nucleobases For Triple Helix Formation And Recognition Of The A-U And U-A Base Pairs In Double-Helical Rna	# 225
Presenters:	Emily Harding, Hallie Bleam	Mentor: Dr. James MacKay
3:05 PM	Selection And Optimization Of Polymer Nanoparticles To Detect Lead (II) On A Simple And Inexpensive Paper-Based Assay	# 226
Presenters:	Kyla DeWittie, Sagar Patel	Mentor: Dr. Lauren Toote
3:05 PM	Detection Of Lead (II) In Drinking Water Using Colorimetric Nanoparticles In A Simple, Lateral Flow Assay Design	# 227
Presenter:	Grace Childs	Mentor: Dr. Lauren Toote
3:05 PM	Synthesis Of Modified Isoorotic Acid Nucleobases To Compare Pi-Stacking And Hydrogen Bonding Interactions In PNA:RNA₂ Triple Helix Formation	# 228
Presenter:	Kyle Hess	Mentor: Dr. James MacKay
3:05 PM	Optimization And Scale Up Of A 2-Aminopyridine Derived Peptide Nucleic Acid Monomer	# 229
Presenter:	Tristan Mabee	Mentor: Dr. James MacKay
3:05 PM	Synthesis and Characterization of Oxovanadium Compounds as Potential Insulin Mimetic Molecules	# 230
Presenter:	Kaitlyn Mercado	Mentor: Dr. Jeffrey Rood
3:05 PM	Optimizing Detection Of The IgM Response To Borrelia Burgdorferi Utilizing An Enzyme-Linked Immunosorbent Assay	# 231
Presenter:	Christina Schnee	Mentor: Dr. Lauren Toote
3:05 PM	Osmium-Doped Luminescent Metal-Organic Frameworks: Synthesis and Photophysical Properties in Solvents of Varying Polarity	# 232
Presenter:	Lucas Stehle	Mentors: Dr. Jeffrey Rood, Dr. Kristi Kneas



Court 2-Schools of Public Service and Human & Health Professions, and Title IX/Compliance Programs and Intercultural Affairs

Public Health

3:05 PM	Global Health-Haiti	# 250
Presenters:	Fredilyn Dong, Nicole Ringwald, Brelynn McCarty	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Ethiopia	# 251
Presenters:	Nick Matteson, Megan Hands	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-India	# 252
Presenters:	Ryan Flanagan, Alex Waskiewicz, Erin Virgo	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Brazil	# 253
Presenters:	Rebecca Lane, Samhar Almomani, Abigail Johnson, Olivia Fabiano	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Dominican Republic	# 254
Presenters:	Molly Nagle, Georgianna Kahley, Nick Parker	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Cameroon	# 255
Presenters:	Maura Bradney, Marissa Vandernick, Olivia Hillman	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-South Africa	# 256
Presenters:	Ryan Wittman, Phil Lyons, Cade Brubaker	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Papua New Guinea	# 257
Presenters:	Julia Bowersox, Kylie Payne, Shannon Young, Esther Nolt	Mentor: Dr. Robert Aronson
3:05 PM	Global Health-Ukraine	# 258
Presenters:	Ryan Donner, Maddy Binder, Traisach Roland, Megan Gangl	Mentor: Dr. Robert Aronson







Occupational Therapy

3:05 PM	Sensory Processing Education For Caregivers and Educators: A Scoping Review	# 260
Presenter:	Sarah Guber	Mentor: Dr. Erica Wentzel
3:05 PM	Barriers to Parenting with Multiple Sclerosis: Development of a Resource Guide to Address Barriers to Parenting With MS	# 261
Presenter:	Sydney Leete	Mentor: Dr. Gina Fox
3:05 PM	Effects Of Dance On The Geriatric Population: A Scoping Review	# 262
Presenter:	Christina Mercincavage	Mentor: Dr. Erica Wentzel

Education Department Poster Symposium

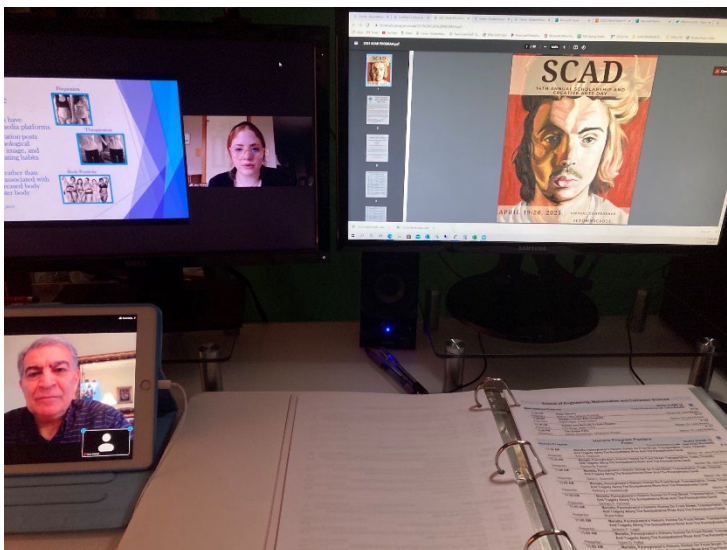
3:05 PM	Promoting Self-Care For School Psychologists	# 270
Presenter:	Gillian Conner	Mentor: Dr. Leigh Shannon Haley-Mize
3:05 PM	Family-Teacher Communication In The Early Childhood Classroom	# 271
Presenter:	Margaret Heimbaugh	Mentor: Dr. Leigh Shannon Haley-Mize

Education Department Poster Symposium

3:05 PM		Evaluating The Quality Of Pre-Service Training For Teachers In Regard To Culturally Responsive Teaching For English Language Learners	# 272
Presenter:		Brooke Langowski	Mentor: Dr. Peter Licona, Dr. Leigh Shannon Haley-Mize
3:05 PM		Supporting Culturally And Linguistically Diverse Learners With Informal Language Learning: A Synthesis Of Current Research And Effects	# 273
Presenter:		Stevie Wallen	Mentor: Dr. Leigh Shannon Haley-Mize
3:05 PM		Best Practices For Students With Mental Health Needs	# 274
Presenters:		Rebecca Edenfield, Shannon Kerwin	Mentor: Dr. Leigh Shannon Haley-Mize
3:05 PM		Supporting Students With Disabilities At Elizabethtown College Through Universal Design	# 275
Presenter:		Grace Hardy	Mentor: Dr. Leigh Shannon Haley-Mize
3:05 PM		TADIPEC: A Social Studies Curriculum For Building Understanding And Empathy Of Cultural Differences In A PK-2 Classroom	# 276
Presenter:		Allison Amsbaugh	Mentor: Dr. Leigh Shannon Haley-Mize
3:05 PM		Educational Technology in the Classroom	# 277
Presenter:		Daulton Dombrowski	Mentor: Dr. Leigh Shannon Haley-Mize

Title IX/Compliance Programs and Intercultural Affairs

3:05 PM		Women In STEM (SDLC)	# 290
Presenters:		Bridget Kennedy, Hannah Cressman, Katie Guelcher, Cassidy Pawlicki, Madison Webber	Mentor: Ms. Nichole Gonzalez








Court 3-School of Engineering, Mathematics and Computer Science

Data Science

3:05 PM	Natural Language Processing In The Metaverse	# 295
Presenter:	Matthew Grohotolski	Mentor: Dr. Peilong Li
3:05 PM	Classification Of Medical Transcriptions	# 296
Presenter:	Adam Wolfe	Mentor: Dr. Peilong Li
3:05 PM	Hand Gesture Recognition with Computer Vision and Deep Neural Networks	# 297
Presenter:	Luke Moynihan	Mentor: Dr. Peilong Li

Engineering

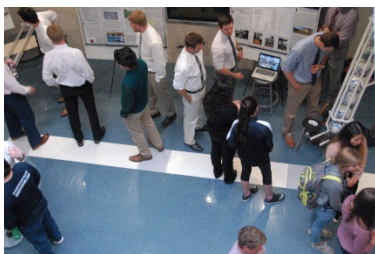
3:05 PM	Uv-C Disinfection Chamber	# 300
Presenters:	Hunter Beaudet, Emily Rahe, Sabriah Hussien, Matt Barton, Adam Bogobiri	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	Articulated 4-Dof Robotic Arm	# 301
Presenters:	Quinn Hogue, Zachary Ingersoll, Sean O'Brien, Nick Raff, Brandon Smith	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	Off-the-Grid Refrigerated Cooler	#302
Presenters:	Chase Young, Vincent Ribeiro, Nate Tobler, Luke Reiter, Nick Sieber	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	 Model Green Roof	# 303
Presenters:	Nathaniel Barnes, Arielle Cox, Elizabeth LePore, Devon Moravec	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	 Adaptive Vertical Axis Wind Turbine	# 304
Presenters:	Ryan Eckert, Pablo Miguez, Ryan Pilone, Blake Wallace	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	 Hydroponics Garden Automation System	# 305
Presenters:	Colm Smith, Ryan Brechbiel, Phil Lyons, Karl Abou-Negm, Tim McCorkle	Mentors: Dr. Mark Brinton, Brenda Daily, Dr. Tómas Estrada
3:05 PM	 Bike-Powered Plastic Shredder	# 306
Presenters:	Ben O'Connor, Wes Mills, Colton Shriner, Brooklyne Wiley	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada
3:05 PM	 Clutch Catch	# 307
Presenters:	Eric Sipling, Grace Butler, Erika Antunes, Joseph Thomas, Jordan Sweger	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Tómas Estrada

Engineering- Engineering Community Based Projects

3:05 PM	Engineering Community Based Projects- Assistive Devices	# 310
Presenters:	Matthew Barosi, Christian Gingrich, Gabriel Kimmel, Domenic Rodriguez, Adam Johnson	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects- Assistive Devices	# 311
Presenters:	Juan Colorado Lopez, Jordan Figueroa, Brayden Franey, Christopher Talluto	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects- Courtyard Design	# 312
Presenters:	Conor Gallagher, Mason Nevill, Michael Williams, Keven Woodruff	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects-Dog Cart	# 313
Presenters:	Claire Cuvo, Clayton Greer, Andrew Raab, Olivia Swope, Bridget Ward	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects-Energy Audit	# 314
Presenters:	David Diehl, Avery Frick, James Michael Musser, Garrett Smith	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects-Museum Space	# 315
Presenters:	David Fetzer, Phillip Lyons, Evan McMurray, Robert Soyka, Owen Wertzberger	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects-Kitchen Cart	# 316
Presenters:	Dylan Fitzgerald, Dylan Holland, Joseph Maragoto, William Oberle	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects- Stream Bridge	# 317
Presenters:	Lukas Azzati, Ryan Bahr, Alec Newman, Scott Reagan	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily
3:05 PM	Engineering Community Based Projects- Tinkering Time	# 318
Presenters:	Carter Balliet, Brendan Doel, Jacob Groh, Blake Lambert, Luke Paulson	Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede, Dr. Brenda Read-Daily

Computer Engineering

3:05 PM	Environmental Monitor	# 320
Presenters:	Austin Brendle	Mentor: Dr. Joseph Wunderlich
3:05 PM	Art and Ethereum	# 321
Presenters:	Jeff Edmonds	Mentor: Dr. Joseph Wunderlich
3:05 PM	Wordle; a computer game	# 322
Presenters:	Dominique McDevitt	Mentor: Dr. Joseph Wunderlich
3:05 PM	Digital Planner System	# 323
Presenters:	Parker Tribble	Mentor: Dr. Joseph Wunderlich



2021-22 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 2021-22 Polanowski Prize for Excellence in Faculty-Student Advising and Mentorship recipient is **Dr. Jeffrey A. Rood**. 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. Dr. Rood, along with Dr. Hossein Varamini (2020-21 recipient), and Dr. Bryan Greenberg (2019-20 recipient) will be recognized for their achievements during the Awards and Closing Remarks ceremony at Bowers Fitness Center (events for previous recipients were canceled due to Covid restrictions).

**April 26, 2022
4:40 pm
Bowers Fitness Center**

2021-2022 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 students enrolled in the First-Year Seminars 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, Librarian of the College from 1960 to 1986.

Congratulations to this year's winner!

Christine Castellano

"U.S. History Education and Race"



Recipient Statement: "During my time in Dr. Evan Smith's Honors FYS on Identities, Diversity, and Social Justice I became a more informed citizen and future-educator. When choosing a research topic, I decided to focus on the lack of inclusion of historically marginalized groups in United States History courses in the American school system. Before we can work to bridge opportunity gaps and create more equitable systems, we need to understand how and why they were created. That's where U.S. history education in the K-12 is crucial. I wrote this paper in hopes of starting the lifelong work towards a more equitable education system, which starts with inclusion in U.S history curriculum."

Honorable Mention: Natalie Myer

"Minimizing Conflicts Between Humans and American Black Bears"

Recipient Statement: "I really enjoyed my experience in the class as a whole, but writing this paper allowed me to delve deeper into a topic that interested me personally. Many different types of large animals are present in the area surrounding my hometown, including, on occasion, black bears, and I wanted to explore their infrequent yet important appearances and how they could be avoided. Overall, I loved being able to research potential ways to help my community, and to learn about our ecosystem in the process."



Special thanks to this year's judges:

Mr. Joshua Cohen, Instruction and Outreach Librarian

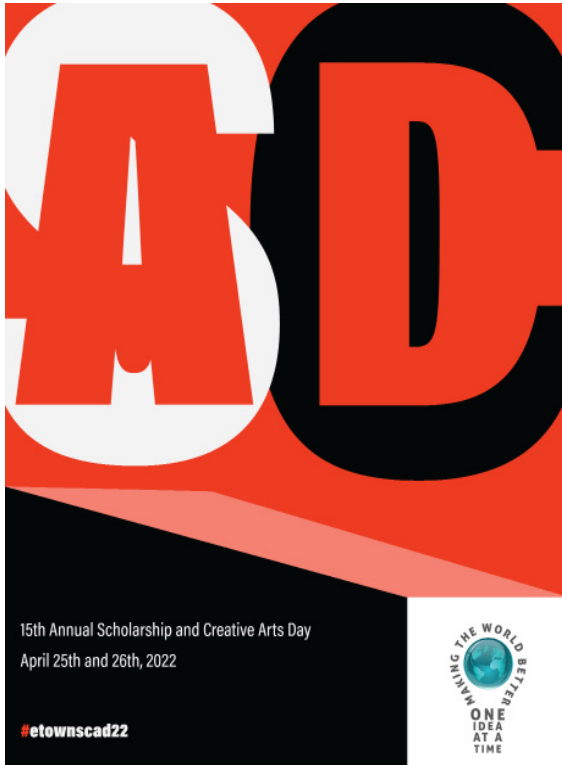
Ms. Clarissa Grunwald, Access Services Librarian

Dr. Robert Wickham, Assistant Professor of Psychology

Dr. Jingwen Wang, Assistant Professor of Computer Science



Scholarship and Creative Arts Day Program Cover Contest



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

Tea Ceresini '22

Artists Statement: Inspired by Swiss Style, I wanted to create something simple, yet unique. I have a great passion for graphic design and I love having opportunities, like this, to push myself.

**Honorable Mention:
Jessica Gutekunst, Class of 2024**



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