

# **Academic & Creative Excellence Festival 2022**

## **Master Schedule and Participants**

### **Wednesday April 20**

#### **Convocation with Dr. Reuben Jonathan Miller: A panel conversation on incarceration and social justice**

**Wednesday, 10:10-11:00 am, Lehman Auditorium**

A conversation sponsored by the Center for Justice and Peacebuilding with CJP students and community activists.

More information about Dr. Miller and panelists on the [ACE Festival Keynote Speaker page](#).

#### **STEM Games Quiz Bowl**

**3:50-5:15 pm, Common Grounds**

Hosted by Matthew Siderhurst, Professor of Chemistry

Competing teams of Biology, Chemistry, Math, Computer Science, and Engineering students will match their wits in response to multiple-choice questions from multiple science subject areas, plus faculty human interest. Everyone is invited to watch the fun! Snacks will be served for the audience and participants.

#### **Keynote Address: Dr. Reuben Jonathan Miller**

#### **"Halfway Home: Race, Punishment and the Afterlife of Mass Incarceration "**

**Wednesday, 7:00-8:00 pm, Lehman Auditorium**

A zoom webinar link is available for this event on the [calendar tab of MyEMU](#) but remember that in-person attendance is required for convocation points.

Over half a million people are released from prison each year. They join a staggering twenty million Americans who live with a felony record. They return to a new world, where over 44,000 laws and policies dictate where they may go, with whom they may live and how they spend their time. This is mass incarceration in America, but it's a reality we don't hear enough about. Professor Miller was confronted by these brute facts, as a chaplain at the Cook County Jail in Chicago during the height of

mass incarceration, as the son and brother of formerly incarcerated men and as a sociologist studying mass incarceration's afterlife. Miller has spent a career walking alongside people we've learned to be afraid of and the families who suffer with them. His work reveals a simple, if overlooked, truth: mass incarceration has an afterlife, and that afterlife is its own form of prison. Join us as Professor Miller shares his work and as we look to find a way out.

More information about Dr. Miller on the [ACE Festival Keynote Speaker page](#).

**Book Signing with Dr. Reuben Jonathan Miller**  
**Wednesday, 8:00-8:45 pm, Brunk Maust Lounge, Campus Center**

Dr. Miller's book, *Halfway Home: Race, Punishment and the Afterlife of Mass Incarceration*, will be available for sale, with the author available to sign your copy. The cost of the book is \$25.00. Cash, check, or credit card payments will be accepted.

The book is a portrait of the many ways mass incarceration reaches into American life, sustaining structural racism and redrawing the boundaries of our democracy. Drawing from fifteen years of research, over 250 in-depth interviews with citizens whose lives have been touched by the criminal justice system, and his own experience as the son and brother of incarcerated Black men, Miller shows how the American carceral system was not created to rehabilitate. Instead he reveals how its design keeps classes of Americans impoverished, unstable, and disenfranchised long after they've paid their debt to society.

More information about Dr. Miller on the [ACE Festival Keynote Speaker page](#).

## **Thursday April 18**

### **On display all day**

The following displays can be viewed throughout the day, but we hope you will visit them during the featured events in the schedule below.

Posters in Suter Science Center, upper and lower levels  
Senior art show (photography) in the M.M. Gehman Art Gallery  
Student art also on display in the Hartzler Library Gallery  
EMU Authors' display in Martin Greeting Hall (Campus Center) – until 3:30 pm

## Learn to Communicate Through an Interpreter

### Spanish interpretation simulation event

Thursday, 8:30-11:30 am, Roselawn 206 and 221

EMU students from human-relations professions such as education, health care, social work, or business, are invited to learn how to communicate effectively through an interpreter. During a 15-minute session, individuals will experience the correct way to use an interpreter to conduct an oral meeting in a service setting.

Students from SPAN 340: Introduction to Translation and Interpretation invite their colleagues to engage in role-plays of situations typical to their majors. For example, education majors can conduct a conversation with a Spanish-speaking parent, a nursing major could practice taking vitals or asking questions about a patient's health history, or a social worker could discuss program eligibility or the sociological needs of a family. The students from SPAN 340 will take the roles of the interpreter and the client of services; the other student will bring the expertise from their field of study and learn how to phrase questions, respond to questions, and communicate most effectively through an interpreter.

Please use the following QR code or visit <https://tinyurl.com/3rs3mzya> to sign up for a 15-minute session on Thursday, April 21<sup>st</sup>. **Please note:** there are at least two sessions available in each of the 15-minute slots, so be sure to check all three of the calendar links for the time that suits you best.



## Oral Presentation Session A

Thursday, 8:30-9:45 a.m.

| Sustainability in Community<br>Moderator: Doug Graber Neufeld                       | Campus Center 105 (Strite Conference Room)                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Isaac Alderfer<br>Luke Short, Felicity Zimmerman<br>Rodrigo Barahona                | <i>Reducing Carbon Emissions at EMU Through RECS, Offsets, and Changes in Energy Consumption and Source</i> |
| Jake Myers<br>Levi Geyer, Anna Paetkau, Andrea Troyer<br>Lily Dodson, Molly Piwonka | <i>Reducing Carbon Emissions at EMU Through Food, Campus Culture, and Curriculum</i>                        |
| Jessica Chisolm                                                                     | <i>Environmental Racism in Emelle, Alabama</i>                                                              |
| Partha Roy                                                                          | <i>The Polluted and Forgotten Anacostia River and the Fight to Bring it Back to Life</i>                    |

|                                                                    |                                                          |
|--------------------------------------------------------------------|----------------------------------------------------------|
| <b>Nursing: Sacred Covenant Stories</b><br>Moderator: Melody Cash  | <b>Campus Center 226</b>                                 |
| Mallory Bontreger                                                  |                                                          |
| Alyssa Himsey                                                      |                                                          |
| Brad Mullet                                                        |                                                          |
| <b>Honors Capstones I</b><br>Moderator: Kirsten Beachy, Mark Sawin | <b>Roselawn 306</b>                                      |
| Duncan Ferency-Viars                                               | <i>Quantum Computers and The Future of Cybersecurity</i> |
| Isaac Andreas                                                      | <i>SNL, But For EMU ;)</i>                               |

### Coffee break with music

Thursday, 9:45-10:30 am, Martin Greeting Hall, Campus Center

Stop by the Campus Center for a time of coffee, fellowship, and chamber music!

#### Chamber musicians

Eve Yavny, violin  
Amanda Kibler, violin  
Judith Hoffman, viola

### Oral Presentation Session B

Thursday, 10:30-11:45 a.m.

|                                                                                                                                                                             |                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Wellness: Biology and Beyond</b><br>Moderator: Laurie Yoder                                                                                                              | <b>Campus Center 105 (Strite Conference Room)</b>                                                                           |
| Jessie Landis                                                                                                                                                               | <i>Extended Life Span with Respiratory Chain RNAi Correlated with Increased Sleep and Decreased Activity in Drosophila.</i> |
| Joshua Wenger                                                                                                                                                               | <i>Health and Neuropsychological Function: The Biopsychosocial-Cognitive Model</i>                                          |
| <b>Engineering Design Presentations</b><br>Moderator: Esther Tian                                                                                                           | <b>Campus Center 226</b>                                                                                                    |
| Joel Kornhaus,<br>Trajon Brown, See Hla, Hebron Mekuria,<br>Riley Gonzalez, Cedon Yoder,<br>Levi Peachey-Stoner, Nathaniel Yoder,<br>Jacob Hess, Caleb Oesch, Ethan Klassen | <i>Design of an Integrated Laptop Computer System</i>                                                                       |
| Andrew Schunn<br>Jonas Beachy, Laura Troyer                                                                                                                                 | <i>Engineering Capstone</i>                                                                                                 |

|                                                                     |                                                                                             |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Honors Capstones II</b><br>Moderator: Kirsten Beachy, Mark Sawin | <b>Roselawn 306</b>                                                                         |
| Isaac Alderfer                                                      | <i>Photographic Documentation of Old Growth Stands in Proposed Skidmore Fork Wilderness</i> |
| Jake Myers                                                          | <i>Noticing on Paper: Drawing to Practice Observation</i>                                   |
| Joseph Seitz                                                        | <i>Quantitative Analysis of Plastic Circles</i>                                             |

**Poster Session A**  
Thursday, 10:30-11:45 a.m.

**Suter Science Center Upper Level**  
Business and Leadership posters: Leadership Theory and Practice

| <b>Presenters and Co-Authors</b> | <b>Project Title</b>        |
|----------------------------------|-----------------------------|
| Ani Beitzel                      | <i>Portrait of a Leader</i> |
| DaiJordan Brown                  | <i>Portrait of a Leader</i> |
| Jaylen Flesher                   | <i>Portrait of a Leader</i> |
| Ann Ghally                       | <i>Portrait of a Leader</i> |
| Juliana Ghally                   | <i>Portrait of a Leader</i> |
| Maggie Groetsch                  | <i>Portrait of a Leader</i> |
| Robert Guenther                  | <i>Portrait of a Leader</i> |
| Karson Jennings                  | <i>Portrait of a Leader</i> |
| Bradley Kirkdorffer              | <i>Portrait of a Leader</i> |
| Katelin Martin                   | <i>Portrait of a Leader</i> |
| Arianna Nixon                    | <i>Portrait of a Leader</i> |
| Kendra Oguamena                  | <i>Portrait of a Leader</i> |
| Bri Rodriguez                    | <i>Portrait of a Leader</i> |
| Natty Solomon                    | <i>Portrait of a Leader</i> |
| Hunter West                      | <i>Portrait of a Leader</i> |
| Hannah York                      | <i>Portrait of a Leader</i> |
| Andrew Zook                      | <i>Portrait of a Leader</i> |

### Suter Science Center room 109 (upper level)

#### Business and Leadership posters: Marketing Research

| Presenters and Co-Authors                          | Project Title                                                         |
|----------------------------------------------------|-----------------------------------------------------------------------|
| Malak Bani-Hani<br>Joy Parakuo, Alcinda Brubaker   | <i>The Impact of Social Media on College Students' Mental Health</i>  |
| Cole Bashinski, Anna Filipkowski                   | <i>Student Satisfaction with EMU Fitness Center</i>                   |
| Dylan Cassell, Cam Earles                          | <i>EMU Athletic Training Room</i>                                     |
| La`akea Fujita, Nate Yoder                         | <i>Customer Satisfaction in Common Grounds</i>                        |
| Matthew Harding<br>Josh White                      | <i>What are Students' Favorite Sports to Watch on Campus and Why?</i> |
| Matthew Leavy<br>Wyland Jobe, Nate McGhee          | <i>EMU Student's Caffeine Consumption</i>                             |
| Nathan Oostland<br>Conrad Yoder, Yeong Ahn         | <i>Student Satisfaction of Study Spaces at EMU</i>                    |
| Yuliya Siminenko<br>Zachari Munoz, Rachel Jennings | <i>Campus Parking</i>                                                 |
| Ethan Spraker<br>Kobi Alexander, Joshua Chiquillo  | <i>Are There Admission Issues at Universities?</i>                    |

### Suter Science Center Upper Level

#### Peacebuilding and Development posters

| Presenters and Co-Authors | Project Title                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------|
| Lene Andrawas             | <i>Importance of Mental Health Among Teens and College Students not Taken Seriously Enough</i> |
| Zyeasha Ba                | <i>The Conflicts with War on Resources</i>                                                     |

### Seminary Chapel

Thursday, 11:00-11:45 am, Martin Chapel

*Teaching the Bible in Communities of Faith*

Steven Pardini

A Bible study curriculum on the Sermon on the Mount was written and taught to an adult Sunday school class in a Mennonite church. Transformative learning theory and brain science were used to guide the creation and teaching of the curriculum. Class dialogue stimulated disorienting dilemmas in cognitive, affective, behavioral and spiritual learning domains. This research project attempted to assess the impact of the curriculum on learner faith and faithfulness development.

**Music Department Student Recital**  
**Thursday, 12:05-1:00 pm, Lehman Auditorium**

Join the students of the EMU Music Department as they present a noon time concert for all to enjoy.

Program available at the event.

**Oral Presentation Session C**

**Thursday, 1:15-2:30 p.m.**

|                                                              |                                                                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>College Well-Being</b><br>Moderator: Jenni Holsinger      | <b>Campus Center 105 (Strite Conference Room)</b>                                                               |
| Sabrina Bellar                                               | <i>Prevalence of Housing Insecurity and Perceptions of Homelessness on a College Campus</i>                     |
| Stephanie Kniss                                              | <i>The Effect of Journaling on Stress in College Students</i>                                                   |
| Rachel Loyer                                                 | <i>The Effects of Student Loan Debt on College Students' Academic Performance and General Well-Being</i>        |
| Joshua Wenger                                                | <i>Childhood Maltreatment and Symptoms of Illness Significantly Predict Psychopathology in College Students</i> |
| <b>Systems and Social Work</b><br>Moderator: Debbi DiGennaro | <b>Campus Center 226</b>                                                                                        |
| Amelia Anderson                                              | <i>The Significance of Shame in Child Welfare Social Work</i>                                                   |
| Cassidy Bush                                                 | <i>Applying Conflict Theory to Social Work</i>                                                                  |
| <b>Writing Studies Theses</b><br>Moderator: Chad Gusler      | <b>Roselawn 306</b>                                                                                             |
| Lesly Garcia                                                 | <i>Beyond Evil</i>                                                                                              |
| Katherine Szambecki                                          | <i>Pressed Flowers: Short stories on the Perception of Women</i>                                                |
| Claire Whetzel                                               | <i>Untitled</i>                                                                                                 |
| Thoreau Zehr                                                 | <i>The Cast Iron Skillet</i>                                                                                    |
| <b>Music: Lecture Recitals</b><br>Moderator: Benjamin Bergey | <b>LA025 (Lehman Recital Hall)</b>                                                                              |
| Indigo Gott                                                  | <i>Fanny Mendelssohn: Both Hurt and Helped by Cishet White Men</i>                                              |
| Will Stutzman                                                | <i>The Theory Behind Modal Jazz</i>                                                                             |

## Poster Session B

Thursday, 1:15-2:30 p.m.

Suter Science Center lower level (east end corridors and concourse)

Chemistry class project posters: Underclass division

| Presenters and Co-Authors                                     | Project Title                                                                                                                |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Emily Alger, Natalye Graham                                   | <i>How Copper Affects Ivy</i>                                                                                                |
| Mayra Cruz, Luz Belen Hernandez Rosario                       | <i>The Effect of Copper Contaminated Soil on the Growth of Plants</i>                                                        |
| Abigail Forrest                                               | <i>Differences in Plant Trimmings' ability to use Phytoremediation on Copper Concentrated Solutions.</i>                     |
| Vanessa Gardiner, Betty Debebe                                | <i>Comparing the Different Absorbances of Copper in Ivy and Forsythia</i>                                                    |
| Reese Hooper, Gabe Nafziger, Nick Arnold, Nate Lehman         | <i>Blacks Run Water Analysis</i>                                                                                             |
| John Jantzen, Aaron Moyer, Morgan Bradley                     | <i>Corn Rootworm Beetle Attractants from Sprouting Seeds</i>                                                                 |
| Adesola Johnson, Ruth Abera, Meredith Lehman                  | <i>Plants Ability to Filter Copper</i>                                                                                       |
| Abby Kaufman, Caleb Wesbey, Will Blosser                      | <i>GC/MS Analysis of Cucumber Lures</i>                                                                                      |
| Catherine Kirby, Lily Dodson, Jaden Jones                     | <i>The Quality of Water Systems in the Harrisonburg Area</i>                                                                 |
| Imari Knight, Chidubem Ekoh                                   | <i>Phytoremediation of Copper-contaminated Soils</i>                                                                         |
| Kate Krabill, Evan Kauffman, Christina Louk                   | <i>The effects of transplanting Forsythia bush cuttings grown in copper-infected solutions</i>                               |
| Megan Miller, Kaden Schrock                                   | <i>Copper Phytoremediation in Plant Seed Sprouts</i>                                                                         |
| Elaine Miranda Perez, Hannah Dellinger                        | <i>Determination of the Effectiveness of Hydrilla Verticillata for Phytoremediation in Freshwater using AA Spectroscopy.</i> |
| Jake Myers, Levi Geyer, Isaac Alderfer                        | <i>Well Water Quality in Linville and Daphna, Virginia</i>                                                                   |
| Isaac Spicher, Laura Craft, Julie Weaver                      | <i>Synthesis of a Potential Spotted Lanternfly Attractant Using Aldol Condensation</i>                                       |
| Andrea Troyer, Luke Short, Faith Manickam, Felicity Zimmerman | <i>The Effects of Rotational Grazing on Soil Health</i>                                                                      |
| Ally Welty Peachey, Doran Kennedy                             | <i>Phytoremediation in Typha latifolia L. (Broadleaf Cattail)</i>                                                            |
| Lindsey White, Grace Harder, Zach Bauman, Anika Hurst         | <i>Influence of Agricultural Runoff on Tide Spring Water Quality</i>                                                         |
| Aidan Yoder, Marciella Shallomita                             | <i>Effect of EDTA on the Phytoremediation of Copper Using Ivy</i>                                                            |

### Suter Science Center Lower Level (east end corridors and concourse)

Class project posters: GIS Division

| Presenters and Co-Authors | Project Title                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| Nick Arnold               | <i>Spatial Analysis of Coronavirus Case Rates in Northern Virginia</i>                                           |
| Zach Bauman               | <i>A Spatial Analysis of the Housing Availability and Prices in Harrisonburg Virginia Over the Last 20 Years</i> |
| Braydon Collier           | <i>The Relationship Between Black Bears and Whitetail Deer Populations in Virginia</i>                           |
| Lily Dodson               | <i>A Spatial Analysis of Endangered Salamanders in Virginia</i>                                                  |
| Levi Geyer                | <i>Influence of Recent Burn History on Residential Property Values in San Diego County, CA</i>                   |
| Reese Hooper              | <i>A Spatial Analysis of Bigfoot Sightings in the United States</i>                                              |
| Anika Hurst               | <i>Nitrogen Concentrations in Major Tributaries Entering the Chesapeake Bay</i>                                  |
| Jaden Jones               | <i>Utilizing ArcGIS to Analyze Forest Cover History in the Shenandoah Valley</i>                                 |
| Catherine Kirby           | <i>Spatial Correlations Between Agriculture Land Use Types and Water Quality Issues in Virginia</i>              |
| Nate Lehman               | <i>GIS Analysis of Wildlife Rehabilitation Efforts in Southwest Virginia</i>                                     |
| Gabe Nafziger             | <i>Gentrification and Population Dynamics in Charlottesville, VA</i>                                             |
| Luke Short                | <i>Spatial Analysis of Commercial Airports Impacts on the Local Community</i>                                    |
| Andrea Troyer             | <i>Analysis of Benthic Macroinvertebrates in the Bergton, VA Watershed</i>                                       |
| Ally Welty Peachey        | <i>Healthcare Accessibility in Regards to Race and Income</i>                                                    |
| Lindsey White             | <i>Impact of Food Access and Purchasing to the Harrisonburg City Nitrogen Footprint</i>                          |
| Felicity Zimmerman        | <i>Land Use Change Over Time Within the Mountain View Elementary School Watershed</i>                            |

### EMU Authors' Reception and Award Presentation

Thursday, 2:30-3:30 pm, Martin Greeting Hall, Campus Center

Hosted by the Provost's Office, the 13th Annual EMU Authors Reception and Award Presentation will recognize and celebrate winners of the university's Excellence in Teaching Awards, recipients of student College Writing Awards, as well as EMU faculty, staff, or students who have published scholarly work in the past two years.

#### Chamber musicians

Eve Yavny, violin

Amanda Kibler, violin

Judith Hoffman, viola

## 2022 Faculty Authors

**Owen Byer**, Professor of Mathematics

**Violet Dutcher**, Professor, Language and Literature; Academic Success Center Director; Writing Program Director

**Marti Eads**, Professor of English

**Jacqueline N Font-Guzmán**, Executive Director of Diversity, Equity, and Inclusion; Professor at the Center for Justice and Peacebuilding

**Chad Gusler**, Associate Professor of Language and Literature

**Cheree Hammond**, Professor of Graduate Counseling Program

**Michael Horst**, Assistant Professor; Program Director Graduate Counseling Programs

**Steve Johnson**, Professor of Visual and Communication Arts

**Tarek Maassarani**, Visiting Professor, Center for Justice and Peacebuilding

**Katie Mansfield**, STAR Lead Trainer, Center for Justice and Peacebuilding

**Andrew Miller**, Director of Graduate and Professional Programs, Department of Business and Leadership; Instructor of Business and Economics

**Gaurav Pathania**, Visiting Assistant Professor of Sociology and Peacebuilding, CJP

**Tim Seidel**, Professor of Applied Social Sciences, Peacebuilding and Development

**Daniel Showalter**, Associate Professor of Mathematical Sciences

**Esther Stenson**, English language tutor, IEP

**Dorothy Jean Weaver**, Professor of New Testament

**Barbara Wheatley**, Professor of Teacher Education, Literacy

**Paul J. Yoder**, Professor of Teacher Education; Director of Graduate Teacher Education; Program Coordinator of Secondary Education

**Howard Zehr**, Distinguished Professor of Restorative Justice; Director Emeritus, Zehr Institute for Restorative Justice

## 2022 Student Authors

**Joshua Wenger**, EMU Student

## Oral Presentation Session D

Thursday, 3:30-5 p.m.

| Human Dignity and the Politics of Violence, Peace, and Justice<br>Moderator: Ji Eun Kim | Campus Center 105 (Strite Conference Room)                                                                                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Anya Kauffman                                                                           | <i>Exploring Gender Implications of Reentry</i>                                                                                   |
| Ariel Morales Bonilla                                                                   | <i>Mass Killings and The Escalation Process: The Guatemalan Genocide (1980-1983) and El Mozote Massacre in El Salvador (1981)</i> |
| Angelo Olayvar                                                                          | <i>The Rohingya Crisis: A Crisis Fueled by Democratization, Security Dilemma, and Illiberalism</i>                                |

|                                                                                       |                                                                                                                       |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Allison Shelly                                                                        | <i>Veto vs. Abstain: Comparing the 2011 UN Security Council Decisions Regarding Libya and Syria</i>                   |
| Karen Valdez                                                                          | <i>Bringing Aid to Asylum Seekers</i>                                                                                 |
| <b>Education: Documentation of Student Learning Projects</b><br>Moderator: Roger Mast | <b>Campus Center 203</b>                                                                                              |
| Emma Cordell                                                                          | <i>Documentation of Student Learning - 4th Grade Math</i>                                                             |
| Tasia Hoover                                                                          | <i>Documentation of Student Learning: A Climate Change Unit Case Study</i>                                            |
| Rachel Lute                                                                           | <i>DOSL: Review of Shapes and Positional Words in Preschool</i>                                                       |
| Bethany Shultz                                                                        | <i>Introduction to Tall Tales: Documentation of Student Learning</i>                                                  |
| Anna Smith                                                                            | <i>Documentation of Student Learning Project</i>                                                                      |
| <b>Center for Justice and Peacebuilding Panels</b><br>Moderator: Tim Seidel           | <b>Roselawn 306</b>                                                                                                   |
| Jill Heine, Anne Coyne, Iman Shabazz                                                  | <i>An Examination of Colonization in Three Transnational Contexts</i>                                                 |
| Tibby Miller, Elizabeth Eby                                                           | <i>Sites of Environmental Externalities: The Hidden Realities of our Extraction</i>                                   |
| Amber Oda, Keren Kandel, Tarini Nagasaila Suresh                                      | <i>Resistance at the Roots: An Exploration of Militarism, the Impact of Settler Colonialism, and Local Resistance</i> |

## Poster Session C

Thursday, 3:30-5 p.m.

### Suter Science Center Lower Level (west end)

Independent research posters

(Biology & Environmental Sustainability, Psychology, MS in Biomedicine)

| Presenters and Co-Authors   | Project Title                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Wesam Albayati              | <i>Innate Immune Responses of C. elegans to the Emerging Pathogen Elizabethkingia anopheles</i>                           |
| Isaac Alderfer, Zach Bauman | <i>Stream Water Quality and Nutrient Loading Along Low to High Order River Transects in the Western Shenandoah Valley</i> |
| Garrett Cash                | <i>Physiological Impacts of Light Therapy</i>                                                                             |
| Hannah Giagnocavo           | <i>Examining a Role for Autophagy in the Pathogenic Response of Caenorhabditis elegans to Elizabethkingia anophelis</i>   |
| Megan Miller, Abby Kaufman  | <i>Applying a Quantitative Genomics Approach to Understand the Role of unc-53/Nav2 in Innate Immunity.</i>                |
| Isaac Spicher               | <i>Thermal and Electromagnetic Stimulation of C. elegans</i>                                                              |

|                  |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|
| Avery Trinh      | <i>Investigating the Role of Heart Rate Variability in Childhood Maltreatment</i>      |
| Katelyn Zuercher | <i>Could Video Games Improve Our Chances of Survival?: A Physiological Perspective</i> |

### **Suter Science Center Lower Level (west end)**

Class project posters, Upperclass division

(Biology & Environmental Sustainability, Chemistry, Psychology, MS in Biomedicine)

| <b>Presenters and Co-Authors</b>           | <b>Project Title</b>                                                                                                              |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Cindi Boyer, Alex Deiongh                  | <i>Hematocrit and Resting Heart Rate Levels in EMU Varsity Soccer vs Non-athletes.</i>                                            |
| Cindi Boyer, Morgan Bradley                | <i>Comparison of Phosphate Limitation Susceptibility Between Two Yeast Types.</i>                                                 |
| Garrett Cash                               | <i>Impact of Light Therapy on Mood and Social Engagement</i>                                                                      |
| Erin Clayton, Skylar Lacks                 | <i>Xenopus Laevis as a Model for Pharmacological Effect on the Cardiovascular System</i>                                          |
| Tahj'ae Coleman                            | <i>Verbal Abuse and its Relation to Low Self-esteem in College Students</i>                                                       |
| Morgan Evans, Megan Miller                 | <i>Impact of Salt Consumption on Kidney Absorption and Secretion</i>                                                              |
| Lesly Garcia                               | <i>Working Memory and Second Language Acquisition</i>                                                                             |
| Lindsey Green                              | <i>Impact of Musical Activities on the Social and Emotional Behavior of Children</i>                                              |
| Jessie Landis, Anna Paetkau, Sarah Grossen | <i>The Effects of Fruit Based Antioxidants on Albumin in Presence of H<sub>2</sub>O<sub>2</sub></i>                               |
| Aldred Mendez, Jeremy Williams             | <i>Varying Sodium Intake on Urine Production</i>                                                                                  |
| Graciella Odelia, Erin Clayton             | <i>The Role of Antioxidant, Bilirubin, and Fatty Acids in Protecting Albumin Against Cu/peroxide-induced Oxidative Stress</i>     |
| Sarah Patsell, Nuha Reza, Jessie Landis    | <i>Examining the Effects of Over-the-counter Vitamin C and B2 Supplements on Urine Composition</i>                                |
| Natnael Seifu                              | <i>Investigating the Feed-Forward System Through the Perspective of the Heart</i>                                                 |
| Avery Trinh                                | <i>Sense of Belonging: The Need for a New Survey</i>                                                                              |
| Aden Weybright, Destiny Lyday              | <i>Effects of Nicotine on Heart Contractility and Heart Rate</i>                                                                  |
| Katelyn Zuercher                           | <i>Could Video Games Improve Our Chances of Survival? Exploring the Survival Processing Paradigm and First-Person Video Games</i> |
| Kierra Zuercher                            | <i>The Effect of Chronic Illness on Quality of Life, Life Satisfaction, and Health Behaviors</i>                                  |

**Suter Science Center Lower Level (west end)**  
Engineers for a Sustainable World project poster

| <b>Presenters and Co-Authors</b>                                                                                                                              | <b>Project Title</b>     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Sean McClary, Noah Swartzentruber,<br>Jacob Hess, Lleyton Stutzman, Caleb Hostetler,<br>Riley Gonzalez, Luke wheeler, Ethan Spicher,<br>Ben Bontranger-Singer | <i>Super-Mileage Car</i> |

**Ice Cream Celebration!**

**Thursday, 6:30-7:00 pm, in front of Lehman Auditorium**  
**(Rain location: Martin Greeting Hall, Campus Center)**

Stop by to grab some free ice cream on the way to the Jazz Ensemble Concert! Celebrate your academic and artistic accomplishments this year with a sweet treat, brought to you by the Provost's Office.

**EMU Jazz Ensemble Concert**

**Thursday, 7:00 pm, Lehman Auditorium**

The EMU Jazz Ensemble, under the direction of Kyle Remnant, will present its spring concert.

Program available at the event.

**Friday April 22**

**Visual and Communication Arts Senior Exhibition #1**

**Friday, 4:00 p.m. Margaret Martin Gehman Gallery (UC179)**

Closing reception and artist talks, featuring photography by:

Alyssa Breidigan  
Theo Yoder  
Zafri Yussoff

View a virtual gallery and read artist statements at <https://emu.edu/gallery/>

## **University Choir and Chamber Singers Concert**

**Friday, 7:00 pm, Lehman Auditorium**

The EMU Chamber Singers and University Choir, under the direction of James Richardson and Benjamin Bergey, will present a joint spring concert.

Program available at the event.

## **Saturday April 22**

### **Concerto/Aria Orchestra Concert**

**Saturday, 7:00 pm, Lehman Auditorium**

The EMU Chamber Orchestra, under the direction of Benjamin Bergey, will present its Concerto/Aria Orchestra Concert, featuring the winners of the annual Concerto/Aria Competition:

Luke Haynes (clarinet)

Eve Yavny (violin)

Program available at the event.