# Session 1a: Poster Presentations (8:30 - 9:30)

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<td>Grand Valley Hunting Ranch Collaboration and Planning</td>
<td>Eric Shehadi, Nathaniel Simmons, &amp; Donnie Ferns</td>
<td>Dawna L. Cerney (Geography)</td>
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<td>02</td>
<td>119</td>
<td>Creating A Display for Archaeological Artifacts Recovered from YSU Archaeological Excavations on San Salvador Island, The Bahamas.</td>
<td>Chelsey Hammond</td>
<td>Ronald V. Shaklee (History)</td>
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<td>03</td>
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<td>Math Self-Efficacy Mediates the Relationship Between Math Anxiety and Performance in an Adult Population</td>
<td>James Palestro</td>
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<td>Amanda Shuluga</td>
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<td>Molly Jameson Cox (Psychology)</td>
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<td>06</td>
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<td>Student Academic Anxieties are Not Influenced by Teaching Styles</td>
<td>Kayleigh Perline</td>
<td>Molly Jameson Cox (Psychology)</td>
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<td>A Qualitative Exploration of Clinicians' Perceptions of Addiction Measures</td>
<td>Lyndsie Smith</td>
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<td>Attitudes Toward Tattoo Culture</td>
<td>Jennifer Waltman</td>
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<td>Religion, Gender and Identity in a Hmong Village</td>
<td>Glynnis Gunnett</td>
<td>Paul B. Gordiejew.</td>
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<td>10</td>
<td>Socio-Economic Status of Youngstown, Ohio during the Early 20th Century: Archaeological Examination of Glassware Use and Production</td>
<td>Zaakiyah Cua</td>
<td>Matt E. O'Mansky</td>
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<td>A Descriptive Analysis of Cleft Neural Arches in the Hamann-Todd Osteological Collection</td>
<td>Shannon Klainer</td>
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<td>Implications for the evolution of speech through a comparative study of modern human, non-human primates and hominine hyoid morphology</td>
<td>Stacy Leigh Deraway &amp; Amanda Osborne</td>
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<td>&quot;But What Can I Do?&quot; Online Harassment and the Bystander Effect</td>
<td>Alexander Acri</td>
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<td>Russia - Ukraine Conflict : An Analysis of the Conflict</td>
<td>Jeffrey Michael Bash, Michael David Hernandez, Catherine Marie Cooper, &amp; Dylan Thomas Edwards</td>
<td>David S. Porter</td>
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<td>Attitudes About Gender Behavior</td>
<td>Colleen Sturgeon</td>
<td>Amanda Fehlbaum</td>
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<td>The Effect of Previous Victimization and Environment on Perceived Risk of a School Shooting in Urban and Rural Schools</td>
<td>Amanda Hernandez, Amber Durkin, Shelby Santullo, &amp; Brytani Grier</td>
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<td>Consent Education at YSU</td>
<td>Krista Phillips</td>
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<td>Assessing Cultural Competency: An Initial Exploration of Assessing Self-Reported Competency in BSW Students</td>
<td>Ashley Rossi</td>
<td>Azadeh M. Block</td>
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**Session 1b: Poster Presentations (8:30 - 9:30)**

**Geology & Environmental Studies**

**01** 343 Characterization of Metals in Urban Soils
- Braxton L. Wessell
- *Faculty Sponsor(s):* Colleen E. McLean
  - Environmental Studies

**02** 318 Sedimentologic Study of Washover Features on San Salvador Island, Bahamas: Determining Their Sediment Sources and History
- Ronald N. Kichton
- *Faculty Sponsor(s):* Christopher R. Mattheus
  - Environmental Studies

**03** 258 Internal Architecture of a Washover-Fan, San Salvador Island, Bahamas
- Richard D. Yovichin III
- *Faculty Sponsor(s):* Christopher R. Mattheus
  - Geology

**04** 317 Hydrology, Sedimentology, and Geomorphology as Drivers of Succession vs. Flood Disturbance within Riparian Forests of Middle Order Streams of the Northeast
- Leah Kaldy
- *Faculty Sponsor(s):* Thomas P. Diggins
  - Biological Sciences

**05** 274 Biological Stream Quality Evaluation of Pine Run (Sharon, PA)
- Suzanne Kepple
- *Faculty Sponsor(s):* Felicia P. Armstrong
  - Environmental Studies

**06** 260 Water Quality and Macroinvertebrate Diversity as Indicators of Potential Residual Effects of Mirex Leaching: An Investigation of the Middle Fork of Little
- Jennifer Libbey & Kathryn Hamilton
- *Faculty Sponsor(s):* Felicia P. Armstrong
  - Environmental Studies

**07** 226 Spatio-temporal patterns in beaver pond complexes as habitat for Eastern Spotted Newts (Notophthalmus viridescens) in a hemlock-northern-hardwood
- Shannon J. Doherty
- *Faculty Sponsor(s):* Thomas P. Diggins
  - Biological Sciences
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<td>84 Enhanced Wound Healing Using Bone Marrow-Derived Mesenchymal Stem Cells</td>
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<td>Raymond Vaio</td>
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<td>363 Deceptive Mating Strategies</td>
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<td>Erin Freed</td>
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<td>353 Development of myosin fiber type expression and prehensile tail function in the gray short-tailed opossum (Monodelphis domestica)</td>
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<td>Dylan Thomas</td>
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<td>245 Ontogeny of Locomotor Performance in Rabbits: They Do It By Putting Their Back Into It</td>
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<td>152 Myosin Fiber Type in the Vertebbral Extensors of Eastern Cottain Rabbit (Sylvilagus floridanus)</td>
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<td>Brock DeAngelo</td>
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<td><em>Biological Sciences</em></td>
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**Engineering 1**

| 01 | 145 | Hot Vehicle Alert System | **Gallery** |
Ahmad Omishat, Tom Bauer, & Mike Modelski  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering

02  
140 The JuiceBox  
Jordan Brown, Corey Dunbar, & Nick Getsy  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering Computer/Digital Option

03  
220 Smart Power Strip  
Josh Foor, Cassie George, & Ruth Lin  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering

04  
59 Smart Helmet  
Fahad Alotaibi, Chad Piccirilli, & Paul Weidle  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering

05  
127 LED³  
Shayne Brown, Justin Moff, & Jacob Straccola  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering

06  
131 The Welcome Center  
Daniel Eich, Laura Corson, Joshua Henson, & David Peterson  
*Faculty Sponsor(s):* Jalal Jalali  
Electrical Engineering

**Anthropology & Geography**  
Jones

01  
364 YSU Archaeological Excavations at the Fresh Lake Site on San Salvador Island, The Bahamas.  
Hannah Scarazzo  
*Faculty Sponsor(s):* Matt O'Mansky & Thomas Delvaux  
Anthropology

02  
249 Artifact Curation for Youngstown State University Archaeological Excavations at San Salvador Island, Bahamas  
Alexa Kensinger, Hannah Scarazzo, & Zaakiyah Cua  
*Faculty Sponsor(s):* Thomas Delvaux & Matt O'Mansky  
Anthropology

03  
13 An Analysis of Areas Surrounding Four Former Youngstown City Schools  
Jayne Catlos  
*Faculty Sponsor(s):* Ronald V. Shaklee  
Geography

04  
210 Development of Contemporary Political Parties in Puerto Rico  
Pedro Sanchez  
*Faculty Sponsor(s):* Ronald V. Shaklee
### Geography

**Session 3a: Poster Presentations (9:40 - 10:40)**

**Health & Human Services**

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<td>01</td>
<td>Innovation in Conscious Fashion Design</td>
<td>Elaine Reedy</td>
<td>Priscilla N. Gitimu&lt;br&gt;Merc Fashion and Interiors</td>
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<td>02</td>
<td>3D Printed Clothing</td>
<td>Katrina Darkadakis</td>
<td>Tacibaht Turel&lt;br&gt;Merc Fashion and Interiors</td>
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<td>03</td>
<td>Sustainable Self-Heating Garment</td>
<td>Katina Darkadakis</td>
<td>Tacibaht Turel&lt;br&gt;Merc Fashion and Interiors</td>
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<td>04</td>
<td>The Effectiveness of Cupping Technique in the Treatment of Plantar Fasciitis.</td>
<td>Toby Gerez, Corey Vukovic, &amp; Adam Kaufman</td>
<td>Weiqing Ge&lt;br&gt;Physical Therapy</td>
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<td>05</td>
<td>Educational Preparation for Outcomes and Practice-Based Research in Dietetics</td>
<td>William Masters</td>
<td>Rachael. Pohle-Krauza, S. M. Leson, J. L. Mincher, &amp; Z. C. Rowland</td>
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<td>06</td>
<td>Optimizing Nutrition in Athletes: Nutrition Assessment and Intervention</td>
<td>William H. Masters, Gina Kontur, &amp; Jessica Romeo</td>
<td>Rachael J. Pohle-Krauza&lt;br&gt;Coordinated Program Dietetics</td>
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<td>07</td>
<td>Gluten-Free Diet: Facts, Fiction, and Perceptions</td>
<td>Chelsey Palumbo, Taylor Entzi, Michael Liposchak, &amp; Greg Durkin</td>
<td>Zara C. Rowlands&lt;br&gt;Coordinated Program Dietetics</td>
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<td>08</td>
<td>Perceptions About Dietetics Among Nurses and Student Nurses</td>
<td>Joanne Starkey, Harley Carroll, Emily Gabriel, Gina Kontur, &amp; Jessica Mertens</td>
<td>Zara C. Rowlands&lt;br&gt;Coordinated Program Dietetics</td>
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</table>
09  182  The Benefits of Pharmacological and Non-pharmacological therapy in children with Attention Deficit Hyperactivity Disorder (ADHD)
    Linda Thomas
*Faculty Sponsor(s):* Jennie M. Wood
    Family Nurse Practitioner

10  370  Efficacy and Safety of Influenza Vaccine
    Brandi Carroll
*Faculty Sponsor(s):* Jennie M. Wood
    Family Nurse Practitioner Option

11  345  Geographical Variations in the Incidence of Inflammatory Bowel Disease
    Nicole Noday
*Faculty Sponsor(s):* Ronald V. Shaklee
    Nursing BSN G

12  141  Early Initiation of Adequate Calcium Intake for Osteoporosis Prevention
    Larissa Roth
*Faculty Sponsor(s):* Valerie M. O'Dell
    Family Nurse Practitioner Option

13  79   ACTIVate your Asthma
    Doug Sposetta
*Faculty Sponsor(s):* Patricia M. Hoyson
    Nursing BSN G

14  30   Complementary Therapy & MS
    Justina Rachella & Terri Coffee
*Faculty Sponsor(s):* Pamela A. Schuster
    Nursing BSN G

15  82   Mechanical and Pharmacological Approaches to the Prevention of VTE Following Major Orthopedic Surgery
    Jennifer Love
*Faculty Sponsor(s):* Valerie M. O'Dell
    Family Nurse Practitioner Option

16  35   The Effects of Gastric Residual Volume on Aspiration Pneumonia in Mechanically Ventilated Adult Patients
    Giacinta Brinsey
*Faculty Sponsor(s):* Jennie M. Wood
    Family Nurse Practitioner Option

17  246  Choosing a Neuromuscular Blocking Agent: Succinylcholine v. Rocuronium to Reduce the Risk of Gastric Aspiration during Rapid Sequence Induction
    Sarbjit Kaur
*Faculty Sponsor(s):* Patricia M. Hoyson
    Family Nurse Practitioner Option

18  83   Exposing Myths of Childhood Immunizations: An Approach to Patient Education
    Ciara Candle
*Faculty Sponsor(s):* Valerie M. O'Dell
    Family Nurse Practitioner Option
19 322 Exploring the Objective and Subjective Career Success of Paramedic Program Directors
Cornelia Bryan
*Faculty Sponsor(s):* Charles B. Vergon & John M. Hazy
Joseph Gantz
*Faculty Sponsor(s):* Feng Yu
Computer Science

**Session 3b: Poster Presentations (9:40 - 10:40)**

**Criminal Justice & Forensic Science**

**Bresnahan 1 & 2**

01 144 The Connection Between Police Officer’s Stress and Domestic Violence
Abigail Frohnapfel
*Faculty Sponsor(s):* Richard L. Rogers
Criminal Justice LKLD

02 251 What Contributes to Crime?
Laurie Bridge, Alexis Feronti, & Robert Duncan
*Faculty Sponsor(s):* John M. Hazy
Criminal Justice LCCC

03 2 Capital Punishment
Monica Woolensack & Haley Lapcevich
*Faculty Sponsor(s):* Derick A. Young
Criminal Justice Bachelors

04 362 Effects of the Workplace and how it moves into the Home
Kelsey M. Adkins
*Faculty Sponsor(s):* Richard L. Rogers
Criminal Justice

05 305 Homicide in Metro City, Metro County, & Non Metro Areas
John McDole
*Faculty Sponsor(s):* Richard L. Rogers
Criminal Justice

06 283 Partly Cloudy and a Chance of Crime: A Crime Analysis through Meteorology
Gary Repasky
*Faculty Sponsor(s):* John M. Hazy
Criminal Justice

07 243 The Efficacy of Drug Use Resistance Education: A Statistical Analysis of Self-Report Data
Christopher Adkins
*Faculty Sponsor(s):* Richard L. Rogers
Criminal Justice
Use of Guns Among Adolescents
Chelsey Haney

Faculty Sponsor(s): Richard L. Rogers
Criminal Justice

Medication: A Critical Element in Treating Veterans with Mental Health Issues
Lawrence Reents

Faculty Sponsor(s): Richard L. Rogers
Criminal Justice

The Difference of Violent Crime Between Men and Women
Stephen E. Dempsey

Faculty Sponsor(s): Richard L. Rogers
Criminal Justice

Session 4: Oral Presentations (10:30 - noon)

Environmental Studies

Natural Waterfalls of the Youngstown Region
Charles Chavara

Faculty Sponsor(s): Bradley A. Shellito
Geography

Utilizing stable hydrogen isotopes to understand range shifts with the Magnolia warbler (Setophaga magnolia)
Elizabeth Abraham & Lucas DeGroote

Faculty Sponsor(s): Colleen E McLean, Peter Kimosop, & Ian Renne
Environmental Studies

A case study of the spatial relationship between bat occurrence and artificial light pollution along a bike trail in Portage County, Ohio
Stefanie Hudzik

Faculty Sponsor(s): Dawna L. Cerney
Environmental Studies

Foraminifera Distribution Across San Salvador Island
Brittany Stockmaster

Faculty Sponsor(s): Christopher R. Mattheus
Geology

Adding Fuel to the Fire: An in Depth Look At The Absorption of Medical Oxygen in the Home
Melissa James

Faculty Sponsor(s): Susan A. Clutter
Criminal Justice Bachelors

Engineering 2

PLC (Programmable Logic Controller)
Chris Judge, Xinyuan Li, Kamal Ennouni, & Ahmed Alghamdi

Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering

02 271 Elevator Design
Cory Merlo, Nicolette Allen, Abdulrhman Alshahrani, & Jon Bancroft
Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering

03 319 Unmanned Aerial Systems: Theory and Applications
James Carter, Lucas Ciprian, Stephen Koulianos, Garrett McIntyre, & Cory Thomas
Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering

04 302 Sumo Bot
Chris Poullas, Sultan Almujil, Karan Eunni, Ali Dhiaaldeeen, & Andrew Morgan
Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering

05 112 Nikola Tesla: Father of Modern Technology
Ryan Thomas, Stuart Blank, Donald Koehler, Nathan Niemi, Bradlee Roberts, & William Santos
Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering Computer/Digital Option

06 294 Design and Construction of a High-Voltage Generator Using a Cockroft-Walton Multiplier
Brent Cole, Kyle Spickler, Matthew Pilch, Brennen Morrison, & Stephen Schlitt
Faculty Sponsor(s): Salvatore R. Pansino
Electrical Engineering Computer/Digital Option

Service Learning

01 380 Service Learning Project 2015 - Northwest Haiti Christian Mission
Sidney Snyder, Danielle Dutton, & Kaitlin Lehner
Faculty Sponsor(s): Sherri Woods
Nursing

Psychology

01 143 Humor and Writing Reduced Negative Affect
Amy Nash, Chelsea Thompson, & Mary Gaudio
Faculty Sponsor(s): Sharon A. Stringer & Stacey Williams
Psychology

02 142 Mindfulness and Writing Exercises Increased Compassion
Kelsey Ault, Ken Juart, Alexandra Fontaine, & Jerrilyn Guy
Faculty Sponsor(s): Sharon A. Stringer & Stacey Williams
Psychology

03 181 Attenuating Perceptual Bias through Instructional Sets
Elizabeth Hanna, Krystle Van Dyke, & Rae’ven Crum
Faculty Sponsor(s): Michael L. Raulin
Counseling & Psychology
Session 5: Poster Presentations (10:50 - 11:50)

**STEM / COFSP**

**Ohio**

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<td>The Comparison of Different Water Quality Characteristics along Yellow Creek, Northeastern Ohio</td>
<td>Kayla Coldsnow, Nicholas Karousis, &amp; Justin Waldern</td>
<td>Carl G. Johnston, Biological Sciences</td>
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<td>Transposon mutagenesis of Stenotrophomonas maltophilia OR02</td>
<td>Vincent Pilolli, Jeremy Borton, Angel Muns, &amp; Hayley Spalla</td>
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<td>Development of a PCR-Based Assay to Detect Penicillium marneffei in Insects</td>
<td>Jamielyn Doyle, Kristen Latessa, Jason Gilmore, &amp; Sara Johnson</td>
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<td>The Effect of Auditory Distractors on Stress-evoked Galvanic Skin Responses</td>
<td>Kaylin Camp, Rae’ven Crum, Christopher Leymarie, Thomas Rebracca, &amp; Tyler Tsangaris-Braatz</td>
<td>Johanna Krontiris-Litowitz, Biological Sciences</td>
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<td>Morphological Support Effects in Metal-CeO2 Catalysts for CO Oxidation</td>
<td>Samantha Mock &amp; Thomas Stoner</td>
<td>Ruigang Wang, Chemistry Pre Medical</td>
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<td>Allison Guerrieri, Taylor Baum, Samantha Mock, Rachel Centofanti, &amp; Tayah Turocy</td>
<td>Nina V. Stourman, Chemistry Pre Pharmacy</td>
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<td>Synthesis and Characterization of CdSxSex-1 Alloyed Quantum Dots and Silica-Shell Coating</td>
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<td>Efficiently Generating Network Links for Bluetooth and Other Mobile Networks</td>
<td>Jenna Wise, Sasha Monroe, Tyler McVicker, &amp; Kevin London</td>
<td>Richard G. Goldthwait Math Applied Math Track</td>
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<td>Markov Chains in America's Pastime</td>
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<td>Predicting Fungal Protein Subcellular Location</td>
<td>James Munyon</td>
<td>G. Andy Chang &amp; Xiangjia Min Math Statistics Track</td>
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<td>Correlation between Magnesium Concentrations in Drinking Water and Ischemic Heart Disease Mortality Rate in Ohio</td>
<td>Nicole Rodomsky. Amanda Seidler, Ralph Roth, Amanda Svenson, &amp; Lydia White (Graduate Student Adviser: Nana Acheampong)</td>
<td>Alan M. Jacobs &amp; Isam E. Amin Biology Pre Medical</td>
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<td>Inflammation, Habitation and Nociception: Are they interrelated?</td>
<td>Jillian Billeck, Olivia Roy, &amp; Katherine Stiff</td>
<td>Jill M. Gifford Biological Sciences</td>
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<td>Anthropogenic Effects on the Costal Ecosystems in Vieques, Puerto Rico</td>
<td>Kayla Coldsnow &amp; Justin Waldern</td>
<td>Carl G. Johnston Biological Sciences</td>
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<td>The Effects of Probiotics on Stress and the Microbial Community of the Gastrointestinal Tract</td>
<td>Daniel Lisko &amp; Justin Waldern</td>
<td>Johnston, Carl G. Biology</td>
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<td>15</td>
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<td>An Observational Assessment of Mangrove Forests in Vieques, Puerto Rico</td>
<td>Nicholas Karousis &amp; Daniel J. Lisko</td>
<td>Carl G. Johnston Biological Sciences</td>
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<td>16</td>
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<td>Study Design for Phytoremediation of Heavy Metals by Using EDDS</td>
<td>Yener Ulus</td>
<td>Carl G. Johnston</td>
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Biological Sciences

17 361  Bioluminescence in Mosquito Bay Vieques, Puerto Rico
Erin Freed & Kaitlyn Frederick
*Faculty Sponsor(s):* Carl G. Johnston
Biological Sciences

18 169  Effects of Aging on Rho Kinase Activity in Aortic Smooth Muscle of Rats
Michelle Kordupel
*Faculty Sponsor(s):* Robert E. Leipheimer
Biological Sciences

19 199  Histological Study of Hair Follicles and Fiber Characteristics of the Huacaya and Suri Alpaca
April Chestnut
*Faculty Sponsor(s):* Mark D. Womble
Biological Sciences

20 339  Identification of Saliva Bacteria by 16s rRNA Sequencing
Samantha Bartolone
*Faculty Sponsor(s):* Jonathan J. Caguiat
Biology Pre Medical

**12:00 – 1:15 – Luncheon & Keynote Speaker – Chestnut Room**
Martin A. Abraham, Ph.D., P.E.
Interim Provost
“The Role of Research at a Comprehensive University”

Session 6: Poster Presentations (1:30 - 2:30)

Engineering / COFSP

*Ohio*

01 136  Baja Car Body Panel Attachment
Alexander Fitzgerald, Richard Ferry, & Carmen Marinucci
*Faculty Sponsor(s):* Hazel Marie
Mechanical Engineering

02 239  Teaching Children Circuits at Oh Wow! Science Center
Eduardo Bustillos & Mike Kunzer
*Faculty Sponsor(s):* Hazel Marie
Mechanical Engineering

03 26  Energy Backup for St. Joseph's Hospital
Tyce Gall, Anthony Hill, Jason Huey, Jennifer McAnallen, Justin Stellmar, & Blake Walker
*Faculty Sponsor(s):* John H. George
Mechanical Engineering Tech A

04 34  Innovation Of Proximal Interphalangeal Finger Joint
Nick Buffa, Ian Schantz, Rana Abu-Hashim, & Matthew Hetzel
*Faculty Sponsor(s):* Jae J. Ryu
05 31 Automation of Semi-Trailer Landing Gear
James Schuster
Faculty Sponsor(s): Elvin B. Shields
Mechanical Engineering

06 22 Coefficient of Friction Testing Machine: Design and Operation
Dakota Joy
Faculty Sponsor(s): Virgil C. Solomon
Mechanical Engineering

07 346 CNC Multi-Table (Phase 1)
Patrick Hyden
Faculty Sponsor(s): Salvatore R. Pansino
Mechanical Engineering

08 348 The Design and Installation of a 2 Ton Jib Crane
Benjamin Tadla & Christopher DeChellis
Faculty Sponsor(s): Elvin B. Shields
Mechanical Engineering

09 310 Properties and Applications of Shape Memory Polymer Using 3D Printing
Antonio DiSalvo, Samuel Capelli, Daniel Martin, & Kelly Kovaceich
Faculty Sponsor(s): Pedro Cortes
Mechanical Engineering

10 205 Personal Bar Tap
Zachary Abraham & Dominic Sikora
Faculty Sponsor(s): Michael J. Juhasz
Mechanical Engineering

11 223 Pulse Jet Engine
Tim Shreeve, Mike Bestic, Zachary Bromley, Sam Faykus, & Mike Savopoulous
Faculty Sponsor(s): Ganesh V. Kudav
Mechanical Engineering

12 39 Using 3D Printing to Integrate Thermal Management into High-Altitude Flight Vehicle Structure
Caitlyn Rodomsky, Lauren Rodomsky, Michael Seifert, Nick Onderko, Ryan Lewis, Thomas Bobosky, & Matthew Conner
Faculty Sponsor(s): Brett P. Conner
Mechanical Engineering

13 337 The Internet Lock
Brandon Mirto
Faculty Sponsor(s): Jason A. Zapka
Electrical Engineering Computer/Digital Option

14 151 Automated Brewing System
Jonathan Doran, Patrick Bollinger, & Jeffrey Wormley
Faculty Sponsor(s): Jalal Jalali
Electrical Engineering Computer/Digital Option
Session 7: Oral Presentations (1:30 - 3:00)

Computer and Information Systems

01 359 Towards Understanding the Context of Student and Professional Developers Using Eye Gaze Features
    Ahraz Husain
    Faculty Sponsor(s): Bonita Sharif
    Computing and Information Systems

02 240 Towards Understanding Student Problem Solving Behavior via Eye Tracking
    Jessica Whitely & Jenna Wise
    Faculty Sponsor(s): Bonita Sharif & Alina Lazar
    Computer Science

03 174 The Construction and Deployment of High-Altitude Systems
    Richard Elrod & James Carter
    Faculty Sponsor(s): Salvatore R. Pansino
    Computer Science
Towards An Automated Approach for Correcting Eye tracking Data on Source Code
Chris Palmer
Faculty Sponsor(s): Bonita Sharif
Computer Information Systems B

Comparing Natural Language Text and Source Code - An Eye-Tracking Study
Patrick Peachock
Faculty Sponsor(s): Bonita Sharif
Computing and Information Systems

Tracing Software Developers’ Eyes and Interactions for Change Tasks
Timothy Shaffer, Katja Kevic, Braden Walters, Thomas Fritz, & David Shepherd
Faculty Sponsor(s): Bonita Sharif
Chemistry

Engineering 3

Comparison of Uniform and Delta doped p- and n- type ZnO Thin Films
Ravichandra Reddy Gade
Faculty Sponsor(s): Tom N. Oder
Electrical Engineering Computer/Digital Option

Creating 3D Photonic Crystals and GRIN Films Using Sputter Deposition
Cory Merlo
Faculty Sponsor(s): Tom N. Oder
Electrical Engineering

R.O.V.R. (Remotely Operated Video Reconnaissance)
Mark Calautti, Michael Slavens, & Ryan Melichar
Faculty Sponsor(s): Jalal Jalali
Electrical Engineering Biomedical Option

Optimized Parameters for Additive Manufacturing of Metallic Powders
Matthew Caputo
Faculty Sponsor(s): Virgil C. Solomon
Materials Science and Engineering

Classification of Observed Stacking Faults in ZnO Thin Films Using High-Resolution Transmission Electron Microscopy and Electron Crystallography
Matthew W. Kelly
Faculty Sponsor(s): Virgil C. Solomon
Materials Science and Engineering

Characterizing High-Strain Rate Behavior of Stainless Steel Fabricated by Additive Manufacturing
Ashley Bowers
Faculty Sponsor(s): Brett P. Conner
Industrial and Systems Engineering

Health & Human Services

Obsessive Dieter’s Excessive Supplement Use: Advantages of Incorporating
Objectivity into Existing Questionnaires for Orthorexia Nervosa.  
Garrett Zuzik  
*Faculty Sponsor(s):* Abel G. Waithaka  
Didactic Program in Dietetics

### 02 Medically-Assisted Treatment: Expert Opinion Regarding the Use of Suboxone (buprenorphine) in Response to the Opiate Epidemic  
Michael Welsh  
*Faculty Sponsor(s):* Joseph P. Lyons  
Health and Human Services

### 03 Effectiveness of Cleaning Methods for Dental Appliances  
Dana Powell, Nicole Bodnar, & Krystal Fuller  
*Faculty Sponsor(s):* Diane P. Kandray  
Dental Hygiene

### 04 Carpal Tunnel Syndrome Symptoms Reported by Dental Hygiene Faculty  
Cynthia Zatroch & Migdalia Feliciano  
*Faculty Sponsor(s):* Diane P. Kandray  
Dental Hygiene

### 05 Dental Hygienists Use of Dental Anxiety Management Protocols  
Nichelle Bilotto & Jonna Omerzo  
*Faculty Sponsor(s):* Diane P. Kandray  
Dental Hygiene

### 06 Dental Hygienists’ Opinions on Dental Hygiene Appointment Length  
Michele Sosnick & Hannah Ropp  
*Faculty Sponsor(s):* Diane P. Kandray  
Dental Hygiene

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**Education**  

### 01 Talk the Talk: A Case for L2 Acquisition for Academic and Global Success  
Megan Factor  
*Faculty Sponsor(s):* Deborah E. Cunningham  
English

### 02 The Cost of Language Attitudes: What Price do Nonnative English Speakers Pay for Nonnative English Pronunciations?  
Shannon Lutz  
*Faculty Sponsor(s):* Jennifer Behney  
English

### 03 Mental Health and College Retention--A Collaborative Student Support Proposal  
Timothy Wince  
*Faculty Sponsor(s):* DeBorah D. Graham  
Counseling

### 04 How are Institutions of Higher Education Implementing Transition Courses for Student Veterans?  
Rebecca McMenamin & Krysta Kurzynski  
*Faculty Sponsor(s):* Matthew J. Paylo
Counseling

05 21 Assessing the Effects of Socioeconomic Status on School District Success
Megan Evans
Faculty Sponsor(s): Rosemary D’Apolito
Individual Curriculum Program

06 326 Who Holds the Paddle: Teacher and Community Involvement in Bullying Prevention
Mackenzi Brozovich
Faculty Sponsor(s): Deborah E. Cunningham
English

Session 8: Poster Presentations (2:40 - 3:40)

**Biology & Chemistry**

01 207 Developing a Protocol that Characterizes and Quantitates Collagen Oxidation at Methionine Residues
Kayshala Symonette, Muhammad Erfan Uddin, & David Yash
Faculty Sponsor(s): Johanna Krontiris-Litowitz
Biology Pre Veterinary

02 213 Quantitation and Characterization of Collagen Oxidation in TGF-beta stimulated Fibroblast Culture
Muhammad Erfan Uddin, Kayshala L. Symonette, & David Yash
Faculty Sponsor(s): Johanna Krontiris-Litowitz
Biology Pre Veterinary

03 69 Analysis of Gene Expression in Developing C2C12: Changes in the Proteome, Titin, and Myosin
Susan Rashid, Lorna Gallagher, & Robert Giles
Faculty Sponsor(s): Gary R. Walker
Biological Sciences

04 92 Gene Expression of the Quinic Acid (qa) Gene Cluster in Neurospora cassa
Kayla Brown
Faculty Sponsor(s): David K. Asch & Gary Walker
Biological Sciences

05 168 A Review of the Current State of Cardiac Stem Cell Therapy
Gabriella Vaturi
Faculty Sponsor(s): Gary R. Walker
Biology

06 216 Genomics of Biobutanol from Clostridium beijerinckii
Eric Cargal
Faculty Sponsor(s): Gary R. Walker
Biological Sciences

07 167 Characteristics of Mesenchymal Stem Cells and Their Use in Wound Repair
Zachary Morse
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<th>Faculty Sponsor(s)</th>
<th>Department</th>
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<td>Use of Phage Display to Identify Specific Peptide Ligands that Bind to Human Serum Albumin</td>
<td>Diana L. Fagan &amp; Pedro Cortes</td>
<td>Biological Sciences</td>
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<tr>
<td>09</td>
<td>The Development of Monoclonal Antibodies Against HIV-1 Viral Protein r using Hybridoma Technology</td>
<td>Diana L. Fagan</td>
<td>Biological Sciences</td>
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<td>Construction of an MHR1 Gene Knockout to Determine its Effects on mtDNA in p-Yeast</td>
<td>Heather E. Lorimer</td>
<td>Biological Sciences</td>
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<td>11</td>
<td>Glucan Synthase Gene Expression in Penicillium marneffi in Response to Cell-Wall Stressors</td>
<td>Chester R. Cooper</td>
<td>Biological Sciences</td>
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<tr>
<td>12</td>
<td>Chitin Synthase Gene Expression in Penicillium marneffi in Response to Cell-Wall Stressors</td>
<td>Chester R. Cooper</td>
<td>Biological Sciences</td>
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<td>13</td>
<td>Recombineering Strategies for Isolating, Cloning, and Deleting Genes in Enterobacter Species YSU and S. maltophilia OR02</td>
<td>Jonathan J. Caguiat</td>
<td>Biological Sciences</td>
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<td>14</td>
<td>Toward the Synthesis of the First Perfluorinated Anionic Indium MOF</td>
<td>Douglas T. Genna</td>
<td>Chemistry</td>
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<td>15</td>
<td>Elucidation and Characterization of Commercially Produced CMA Road Deicer</td>
<td>Matthias Zeller</td>
<td>Chemistry</td>
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<td>16</td>
<td>Effect of Nutrients on the Growth of E. coli Cells Overexpressing beta-Glucosidase BglIX</td>
<td>Tara L. Pickens</td>
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17 85 Characterization of Predicted Bacterial Glutathione Transferase, YliJ
Ashten Gibson & Shelby Woodward
Faculty Sponsor(s): Nina V. Stourman
Chemistry

18 282 Synthesis of bis(2,2,2-trifluoroethyl) (Z)-vinyl phosphonates from bis(2,2,2-
trifluoroethyl) 1-alkynylphosphonates using Lindlar’s catalyst
Brian Kamerer
Faculty Sponsor(s): John A. Jackson
Chemistry

19 379 Synthesis of Bis(2,2,2-trifluoroethyl) Phosphonates
Jordan Zaluski
Faculty Sponsor(s): John A. Jackson
Chemistry

20 184 Controlling Supramolecular Structure of Anionic Metal Organic Frameworks with
Cationic Nitrogen Containing Additives.
Joseph Mihaly & Michael Bellas
Faculty Sponsor(s): Douglas T. Genna
Chemistry

Session 9: Oral Presentations (3:30 - 5:00)

History

01 125 Richard III: Bad to the Bone?
Brittany Trask
Faculty Sponsor(s): Brian Bonhomme
History

02 265 Factors that Affect the Mental Health of Combat Veterans: Social Support vs.
Substance Abuse
Joshua Hall
Faculty Sponsor(s): Richard L. Rogers
Criminal Justice

03 20 Entheogens & the Law
Jason Slosnerick
Faculty Sponsor(s): Fred W. Viehe
History

04 17 Italian Immigration
Elizabeth Miller
Faculty Sponsor(s): Fred W. Viehe
History

05 10 Piracy Through the Centuries
Robert Miller
**Engineering 4 & STEM**

01  
241  Spinel-Based TCON Composites via Transformation of Printed Precursor Shapes  
Monica Ramunno  
*Faculty Sponsor(s):* Timothy R. Wagner  
Chemistry

02  
254  A Classical Analog of a Kerr Black Hole  
Connor J. Hetzel  
*Faculty Sponsor(s):* Michael J. Crescimanno  
Physics

03  
90  Removable Multilayer Polymer Appliques as Wavelength Selective Filters for Mirrors When Night Driving  
Gwen Dmitruk  
*Faculty Sponsor(s):* James H. Andrews  
Physics

04  
158  Advancing Heat Transfer with Impinging Jets, Channel Flow and Two Phase Mediums  
Brian Friedrich  
*Faculty Sponsor(s):* Kyosung Choo  
Mechanical Engineering

05  
53  Solid Oxide Fuel Cells (SOFCs): A Novel Manufacturing Method through Binder-Jetting  
Meshack Kioko  
*Faculty Sponsor(s):* Guhaprasanna P. Manogharan & Clovis Linkous  
Mechanical Engineering

06  
61  Heat Transfer and Fluid Flow Characteristics of the Effects of Impinging Air Jets and Nozzle Diameter  
Karen Schilling  
*Faculty Sponsor(s):* Kyosung Choo  
Mechanical Engineering

**Diversity & Conflict**

01  
262  The Second Gilded Age: The Government's Responsibility to the Wealth Gap  
Mark Holland  
*Faculty Sponsor(s):* Deborah E. Cunningham  
English
02  171  Musical Medicine: Jazzing Up the Therapy World  
     Tayah Turocy  
     Faculty Sponsor(s): Deborah E. Cunningham  
                       English

03  200  In The Media We Trust?  
     Mia Daly  
     Faculty Sponsor(s): Alyssa J. Lenhoff  
                       Journalism

04  1  Domestic Violence Myths and Neutralizing Attitudes of Society Towards Victims  
     Molly Hartsough  
     Faculty Sponsor(s): Denise A. Narcisse  
                       Sociology

05  277  Helping Our Veteran and Military Students Succeed and Persist to Graduation: An  
       Exploratory Study  
     Jessica Yarab  
     Faculty Sponsor(s): Mari L. Alschuler  
                       Social Work

06  196  Fear as a Weapon: The Evolution of Terrorism, 1945-2015  
     Brandon M. Lehnert  
     Faculty Sponsor(s): Richard L. Rogers  
                       Criminal Justice Bachelors

**Health & Human Services**

Health & Human Services  

01  219  Wait, College Students Sleep?  
     Safah Esmail  
     Faculty Sponsor(s): Amanda L. Roby  
                       Respiratory Care

02  208  Epinephrine Pen Training at Grades k-12 Schools  
     Sarah McCann  
     Faculty Sponsor(s): Amanda L. Roby  
                       Respiratory Care

03  203  Why Are College Students Saying No to Organ Donation?  
     Deanna Robertson  
     Faculty Sponsor(s): Amanda L. Roby  
                       Respiratory Care

04  198  Hospital Menus and Food Allergies in Children  
     Tori Heverly  
     Faculty Sponsor(s): Amanda L. Roby  
                       Respiratory Care

05  195  You're Smoking What?  
     Alexandria Baugh  
     Faculty Sponsor(s): Amanda L. Roby  
                       Respiratory Care
06 369  Core Strengthening vs. Standard Strengthening Protocol When Implemented for Anterior Knee Pain in Young Athletes
Dawnelle Jewell, Meische Cox, & Michael Carson
Faculty Sponsor(s): Kenneth E. Learman
Physical Therapy

Session 10: Poster Presentations (3:50 - 4:50)

STEM Ohio

01 335  Front Line Supervision within the Construction Industry
Sydney DeMaarco
Faculty Sponsor(s): Carol M. Lamb
Civil and Construct Eng Tech B

02 281  Chemistry 3720 Honors Project: Carbohydrate Structures by NMR and Molecular Modeling
Jenna Weems, Cassandra Shaffer, Alexa Schmidt, & Breanna Naylor
Faculty Sponsor(s): Peter Norris
Chemical Engineering

03 102  Analysis of Time Study at Resco Products Inc.
Johnny Medina & Mike Kunzer
Faculty Sponsor(s): Martin Cala
Mechanical Engineering

04 95  Work Sampling for CCL Container
Ariana Zebrasky & Daniel Delahunty
Faculty Sponsor(s): Martin Cala
Industrial and Systems Engineering

05 96  Work Analysis of an Ignition System Packing Process at Altronic of Girard
Jordan Thomson & Alex Waggoner
Faculty Sponsor(s): Martin Cala
Industrial and Systems Engineering

06 99  Applying Work Study Processes to Thermocouple Manufacturing at Fireline Inc.
Sarah Staley & Mia Barchetti
Faculty Sponsor(s): Martin Cala
Industrial and Systems Engineering

07 101  Methods Engineering Analysis and Work Design at Brainard Rivet for Quality Improvement
James Mayor & Mazen Jamaan
Faculty Sponsor(s): Martin Cala
Industrial and Systems Engineering

08 104  Analysis of Work Design at Gasser Chair
Devon Rambo & Jeremiah Kibler
Faculty Sponsor(s): Martin Cala
Industrial and Systems Engineering
09 120 Modeling the Spread of an Infectious Disease in a Semi-Closed Environment
Crystal Mackey

Faculty Sponsor(s): Alice Prieto Langarica
Math Applied Math Track

10 14 Development of ProtSecKB: the Protist Secretome and Subcellular Proteome
Knowledgebase
Brian Powell, Vamshi Amerishetty, & John Meinken

Faculty Sponsor(s): Xiangjia Min, Chester Cooper, & Feng Yu
Computer Science

11 159 Design of an Open World Obstacle Creation System for Novice Driver Training
Andrew Smiles

Faculty Sponsor(s): Abdurrahman Arslanyilmaz
Computer Science

12 116 Understanding a Novice Programmer’s Progression of Reading and Summarizing
Source Code
Andrew Morgan

Faculty Sponsor(s): Bonita Sharif
Computing and Information Systems

13 242 Methods for the Synthesis of Directional Amphiphilic Ligands for Use in Biological
Systems
Jennifer Moore, Matthew Torres, & Abigail Ansah

Faculty Sponsor(s): Peter Norris
Chemistry

14 156 The use of arylsulfonyl azides as precursors to organic derivatives
Michael Delost

Faculty Sponsor(s): Peter Norris & Matthias Zeller
Chemistry

15 190 Purification and Biochemical Studies of Glutathione Transferase YliJ from
Escherichia coli
Collins Aboagye

Faculty Sponsor(s): Nina V. Stourman
Chemistry

16 250 Synthons of UDP-N-acetyl-L-fucosamine (UDP-L-FucNAc) and D-ManNAcA as
potential inhibitors of Staphylococcus aureus capsular polysaccharide
Philemon Ngoje & Emmanuel R. Buabeng

Faculty Sponsor(s): Peter Norris
Chemistry

17 263 Novel Approaches to Acyl Nitrenes
Christopher Copeland & Cephas Afeke

Faculty Sponsor(s): Peter Norris
Chemistry

18 23 Recording of Original Compositions
Lauren Eisenreich & Christopher Rudzinskas

Faculty Sponsor(s): David S. Morgan
End Stage Renal Disease (ESRD) Patient’s Perception of Their Health and Compliance with their Dialysis Prescription.

Linda Robinson

Faculty Sponsor(s): Amy Weaver
Nursing

Methods of Engineering Time Study Analysis at General Extrusions Inc.

Ben Spencer & Etienne Hall

Faculty Sponsor(s): Martin Cala
Industrial & Systems Eng