WELCOME MESSAGE FROM THE PRESIDENT

It’s my pleasure to welcome you to Mansfield University’s seventh annual Showcase of Student Scholarship. Today, we celebrate outstanding examples of undergraduate research and creative work from many different academic programs across our campus. As a small public liberal arts institution, and Pennsylvania’s only member of the Council of Public Liberal Arts Colleges, Mansfield University is committed to supporting our students as they conduct research and produce creative work in collaboration with their faculty mentors. Our commitment to scholarship is embodied in our Mansfield Creed, which states that "the Mansfield University community will foster a life of intellectual curiosity, celebrating the creation and dissemination of new ideas. We will embrace the use of rigorous, responsible, and critical inquiry to understand, acquire, and share knowledge. We apply what we learn by recognizing that each of us is both student and teacher engaged in the continuous pursuit of learning."

The "continuous pursuit of learning" lies at the very heart of a liberal arts education. As you encounter the wide variety of undergraduate research and creative work we celebrate in Alumni Hall — including poster displays, art and media exhibits, poetry readings, individual and group research presentations, and musical performances—I encourage you to ask questions, share ideas, and make connections. For it is through this kind of engagement with each other that we become a true community of scholars, seeking to better understand, and improve, our world.

Francis L. Hendricks, ’79
Brigadier General, USAF (Retired)
President, Mansfield University
Program of Events
April 26, 2017

POSTER PRESENTATIONS: SESSION I  Room 307  9:00 a.m. - 12:30 p.m.

Carolyn DeWitt - Geosciences: Environmental Science

Measuring Variation in the Macroinvertebrate Population of a Headwater Stream: May-September 2016. Benthic macroinvertebrates serve as bioindicators of stream health as they inhabit the nexus of numerous and interconnected environmental conditions. This project is the first of a long-term study to characterize seasonal changes in populations of benthic macroinvertebrates in the lowest reach of Mill Creek by undergraduate students at Mansfield University. Faculty Sponsor: Dr. Linda Kennedy

Hang Nguyen - Geography: Environmental Science

Organic Decomposition Rates in Forest and Non-Forest Soils: A Pilot Study. The focus of the study was to determine if organic soil decomposition rates differed between forest and non-forest soils, and to determine if organic soil decomposition rates differed seasonally. This pilot study is part of a global study to produce a global map of organic soil decomposition rates. Faculty Sponsor: Dr. Linda Kennedy

Alicia Gerg - Safety Management and Geosciences: Environmental Science

Safety Professionals and the Reduction of Carbon Dioxide Levels from Industries. Climate change and the relation of carbon dioxide (CO2) levels is an enormous issue in today’s world. This research focuses on industries and what mitigation efforts are being implemented in companies that emit CO2 and how the role of a safety professional could aid these efforts. Faculty Sponsor: Dr. Jennifer Demchak

Brian Long - Geography: Environmental Science

Fossil Evidence of the Changing Paleoenvironments in the Catskill Formation. The Catskill Formation is a red sandstone layer that stretches through Pennsylvania and New York. The paleoenvironment of the Catskill is a river delta and/or marsh. By comparing fossils found throughout the formation we can interpret changes in the paleoenvironment. Each location was visited and samples were collected and identified. Faculty Sponsor: Dr. Jennifer Demchak

Chase Brown and Joseph Cantale - Geography

Water Quality Assessment through Interpretation of Present Macroinvertebrate Species. We have conducted a series of tests of water quality through the interpretation of macroinvertebrate in the Tioga River. The tests will give us results that will show the general health of the Tioga River, based on speciation and population. Faculty Sponsor: Dr. Jennifer Demchak

Christian Verrastro - Geosciences: Environmental Science

Ice Nucleation Active Bacteria: A Study of Pseudomonas syringae. Pseudomonas syringae is a bacterium that has the ability to cause water to freeze at warmer temperatures. This is important for studies in the hydrologic cycle, agriculture techniques, climate change, and problems such as drought. Faculty Sponsor: Dr. Jeanne Kagle
David Bisher - Geosciences: Environmental Science

**A Determination of Struggling Osprey Populations in Tioga County, Pennsylvania.** Presentation of a poster that will outline issues concerning Osprey populations in Tioga County, Pennsylvania. Faculty Sponsor: Dr. Jennifer Demchak

Jamie Brown - Geosciences: Watershed Management

**Swine Feces Spreading and the Nitrification of Local Waterways.** This study focuses on the nitrification of a local water body, located in Liberty, Pennsylvania, that is believed to be caused by the over-spreading of liquefied swine manure on surrounding farm fields. The polluted water body is a pond located on Roaring Branch Road, Liberty, PA. Faculty Sponsor: Dr. Jennifer Demchak

Taylor Hersh - Geosciences

**High Salinity Levels in Seneca Lake, New York.** Seneca Lake’s quality has been closely monitored with one of the biggest concerns being salinity levels. It has a higher salinity level than most fresh water. The salt mines on the lake have been considered the source of the high salinity levels, but another consideration is the underlying geology. Faculty Sponsor: Dr. Jennifer Demchak

Andrew Leidich - Geosciences: Environmental Science

**Designing Recreational Trail Maps.** This project redesigned a recreational trail map using ArcMap GIS, Google Earth Pro, and Adobe Illustrator. Blue Marsh Lake receives over a million visitors annually at its numerous boat launches, developed areas, 30+ miles of trails, and adjacent State Game Land. Faculty Sponsor: Dr. Jennifer Demchak

Travis Lemons - Geosciences: Watershed Management

**Wider Riparian Zones Support a Larger Diversity of Aquatic Species.** The following proposed research project will determine if a wider riparian zone can support a larger diversity of aquatic species. The research project will focus on a twenty-mile section of Fishing Creek in Columbia County, Pennsylvania. Faculty Sponsor: Dr. Jennifer Demchak

Claire Swink and Kerry Moon - Geography

**Testing for Nodularin, a Cyanobacteria found in Algal Periphyton, throughout the Commonwealth of Pennsylvania.** This study is a replication of a research project created by PADEP to raise awareness about a toxic cyanobacteria, Nodularin (NOD), a blue green algae. NOD has been recently discovered in small amounts in local Pennsylvania waterways, which poses a threat to human health, recreation, and drinking water sources. Faculty Sponsor: Dr. Jennifer Demchak

Joseph Sepiol - Geosciences

**Stream pH Modification through Karst Topography.** Karst systems are essential natural filters for the hydrology of local streams as well as the water table. This research will consider the ability of karst as a natural pH modifier. Faculty Sponsor: Dr. Jennifer Demchak

Casey Pearce - Geosciences: Environmental Science

**Agricultural Impacts on the Tioga River.** The Tioga River in Mansfield, Pennsylvania, was lab tested to determine if the runoff from the agriculture fields along the river is negatively impacting the water quality of the river and creating eutrophication at the Lambs Creek Boat Launch. Faculty Sponsor: Dr. Jennifer Demchak

Spencer Zuraski - Geosciences: Watershed Management

**How Tourist Numbers Affect Water Quality in Watkins Glen State Park.** Ecotourism is a growing industry worldwide, but the growing of this industry creates some conflicts. This experiment will assess how tourism within Watkins Glen State Park affects water quality including turbidity and total dissolved solids of Glen Creek which flows through the center of the park. Faculty Sponsor: Dr. Jennifer Demchak
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Douglas Tomlinson and Deanna Sutton - Geosciences: Environmental Science

**Mansfield University Water Well Research.** Our accessible water well is estimated to be drilled down nearly 640 feet deep. The level of the water in the well was recorded weekly and a daily weather log was recorded to keep track of the amount of precipitation. Soil maps and geologic maps were used to determine water recharge rates. Water quality was also tested to see if the well contained harmful pollutants. Faculty Sponsor: Dr. Jennifer Demchak

Nathan Senkow - Geosciences: Environmental Science

**Biodiesel.** This study examines how biodiesel is made and cleaned to be used in everyday diesel engines. Faculty Sponsor: Dr. Jennifer Demchak

Janie Ghods - Geosciences

**Wastewater Treatment of Pharmaceuticals.** This project examines the extensive process involved in cleansing our drinking water. Questions to be addressed include: How well are we treating our wastewater? How much residual chemicals and pharmaceuticals are being left behind? How is this affecting us in the long run? What is the best way to filter wastewater? Faculty Sponsor: Dr. Jennifer Demchak

Brittany Richardson - Geosciences

**The Effects of Agriculture on the Environment.** While agriculture is crucial to the country’s growing population, it still has many negative side effects. Agriculture is one of the top contributors to water pollution in the Chesapeake Bay. Chemical pollutants and manure pollutants contribute to chemical pollution, eutrophication, and sediment pollution. Faculty Sponsor: Dr. Jennifer Demchak

Kyle Viehmeyer and Emma Lynch - CIS: Information Systems

**Problems in Programming: Dealing with Deprecated Methods.** An example of how to work through a programming problem within a project despite restrictions on multiple aspects of it. Faculty Sponsor: Dr. Yucong Liu

Emily Edwards - Chemistry

**Developing a Protocol for Forensic Soil Analysis.** The general goal of this research was to develop a method that could be used in any lab to unambiguously identify soil samples. The research aimed to enhance novel forensic soil testing techniques using FTIR and UV/Visible spectroscopy while also applying some traditional analyses like pyrolysis and color classification. Faculty Sponsor: Dr. Scott Davis

Hunter Huyett - Geosciences: Environmental Science

**A Study of How Hydrofracking Increases Heavy Metal Composition and Acidity in Drinking Water and Stream Composition in Tioga County, Pennsylvania.** The intention of my research is to examine the effects from the hydrofracking process of natural gas drilling and to determine how they may affect drinking water and streams. This research includes a testing plan to test streams and drinking water to evaluate potential contamination near well sites. Faculty Sponsor: Dr. Jennifer Demchak

Tina Patel and Stephanie Hendricks - Biology

**Understanding Fibroblast Phenotype and Extracellular Matrix Production in Pancreatic Cancer.** Using a mouse model, we studied the biology of pancreatic cancer across multiple tumor cell lines. We used Molecular Biology techniques, including RNA isolation and quantification, cDNA synthesis, and qRT-PCR, to examine fibroblast phenotypes and extracellular matrix production, which allowed us to draw conclusions between fibroblast phenotype and extracellular matrix content. Faculty Sponsor: Dr. Kristen Long
Amanda Zeafla - Early Childhood Education and Special Education

The Effects of a Positive Behavioral Intervention Plan on a Kindergarten Student in an Inclusive Public School Classroom. This project details the process and results of a successful behavioral intervention plan (BIP) that I designed and implemented while student teaching in an inclusive kindergarten classroom. I conducted a functional behavioral assessment (FBA) for a student with exceptional behavioral needs and used the data to design and implement an individualized BIP. Faculty Sponsor: Dr. Michele Whitecraft

Cooper Barshinger - Biology: Fisheries

Effects of Stocked Trout on Cutlip Minnow (Exoglossum Maxilllingua) Predator/Prey Relationship within the Tioga River Watershed. We examined the influence of trout stockings on a native minnow. The minnow was examined for differences in length and relative weight in stocked and non-stocked streams. We found that the minnow average length was significantly less in systems stocked with trout, when compared to systems that had not been stocked with trout. Relative weight did not differ between treatments. Faculty Sponsor: Dr. Gregory Moyer

Amanda Lee - Psychology: Counseling

Sexual Assault Beliefs and Prevalence: A Campus Study. This study was conducted to learn more about students' perceptions and beliefs regarding sexual assault and Title IX issues at Mansfield University. Results indicated that students were less aware of the reporting procedure and what happens after filing a sexual assault report. The need for more effective sexual violence prevention and educational programs is addressed. Faculty Sponsor: Dr. Gretchen Sechrist

Shelby Bartlett and Taylor Chidester - Psychology

Does Mood Influence Judgments Made by Individuals Under Time Constraints? This experiment examined the influence of mood and time constraints on individuals’ decision-making. Research suggests that people in positive moods are less judgmental and that time constraints increase harsh judgments. Results showed that neither mood nor time constraint had an effect. Overall, participants were judgmental pertaining to the scenarios used. Faculty Sponsor: Dr. Gretchen Sechrist

Chelsea Tango, Anastacia Howard, and Savannah Buckley - Psychology

The Role of Empathy and Cost on Helping Behavior. The influence of empathy and cost (manipulated by the absence or presence of an authority figure) on helping behavior was investigated. Results showed that when participants felt empathy for another student, they helped no matter the cost. Faculty Sponsor: Dr. Gretchen Sechrist

Tylin Colston and Gabriel Lane - Psychology

Race, Gender, & Slut Shaming. This experiment examined the relationships among race, gender, and slut-shaming behaviors. Results showed that Black males and White females were perceived to be more aggressive when engaging in sexually permissive behaviors. Faculty Sponsor: Dr. Gretchen Sechrist

Katlynn McDaniels - Psychology: Forensic Psychology

Are Criminals Inevitably Subject to the Lie Bias? In the criminal justice system, police officers have a tendency to display a Lie Bias, which is the belief that suspects always lie to them. This study examined whether laypersons also have a Lie Bias when reading testimony from a victim with a criminal record. Faculty Sponsor: Dr. Karri Verno

Megan Heath and Whitney Hurlburt - Early Childhood Education and Special Education

Effect of Dog Saliva on E. coli. Our experiment examines the impact dog saliva has on the growth of E. coli. The results indicated there was a negative correlation between a dog’s environment and
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the amount of bacteria present in the petri dishes containing saliva and E. coli, which raised questions that we are currently investigating with refined focus. Faculty Sponsors: Dr. Robert Maris and Dr. Michele Whitecraft

Alexandra LeMons, Taylor Cole-Miller, and Stephen Foster - Psychology

You’ve Got a Friend in Me: The Social Attractiveness of Sports Fans VersusGamers. Fandom is related to various social and psychological outcomes, but some individuals are stigmatized more than others because of the object of their fandom. Contrary to predictions, results of this study showed that male gamers were perceived as more socially attractive than male sports fans. Female sports fans were rated as more socially attractive than female gamers. Faculty Sponsor: Dr. Gretchen Sechrist

Tyler Copp, Erin Carrigan, and Miranda Kline - Psychology

The Effects of Stereotypes on the Formation of Social Relationships. This study examined how the formation of social relationships is affected by stereotypes. Participants viewed a series of pictures and descriptions and completed a Perceived Similarity, Actual Similarity, and Stereotypes Questionnaire. The results from the study indicated that a person’s race and sex strongly influence the formation of social relationships. Faculty Sponsor: Dr. Karri Verno

Brett Burley-Inners, Kyle Melvin, and Devin Zeyher - Computer Science

Revisiting Space Invaders. This project attempts to improve upon the classic game, Space Invaders. To do so, we are bringing the game to a mobile, touch-based, responsive platform and adding a handful of playable ships to keep the game fresh and varied. Faculty Sponsor: Dr. Yucong Liu

Alison Hurlbert - English: Professional Writing

Usability Testing in the Mansfield University Community. This research observes how three groups (current students, faculty and staff, and prospective students) interacted with the Mansfield University website through usability testing. Findings include areas of difficulty or confusion surrounding website navigation, as well as usage and trends amongst groups. Faculty Sponsor: Dr. Brad Lint

Zachary Johns and Moran Chang - CIS: Information Systems

Research into Business Applications and Self-Driving Vehicles. An exploration of the impact self-driving vehicle technology may have on the economy and the technologies behind software to automate and control them. Faculty Sponsor: Dr. Yucong Liu

Corrinne Re buck - Political Science & Psychology: Human Resource Management

The Evolution of an Enduring Alliance. Despite stark cultural differences, the United States and Saudi Arabia formed a mutually beneficial relationship based primarily around oil. In addition to oil, security concerns related to terrorism and regional power balances have become more important and complex. This paper analyzes that complexity and examines the future of US-Saudi relations. Faculty Sponsor: Dr. Jonathan Rothermel

Meagon Aikey and Teng Gater - Biology

Food Preference of Dubia Cockroaches, Blaptica Dubia. A food preference experiment was conducted on Dubia cockroaches to study how the influence of light and dark environments affected their choice in food. Faculty Sponsor: Dr. Leslie Clifford

Jessica Towey and Arthur Collier - Biology

Gene Expression Profiles of Pancreatic Cancer. Pancreatic cancer has no cure and there are very limited treatment options for the disease. There is high heterogeneity between tumors, which impacts the treatment efficacy. Some tumors are more fibrotic than others, while some have a greater leukocyte population. We sought to examine gene expression profiles across multiple tumor phenotypes. Faculty Sponsor: Dr. Kristen Long
What’s in Mansfield University’s Water? Academic Halls vs. Residence Halls. Water samples were taken from one old and one new academic buildings and residence hall. The water samples were then tested for calcium, chlorine, magnesium, and total hardness. Results were then used to create graphs comparing the academic and residence halls to see which contained the higher water quality. Faculty Sponsor: Dr. Jennifer Demchak

Agricultural Runoff in Tioga County. The purpose for this project is for a better understanding of how the agriculture in Tioga County Pennsylvania affects the nutrients and pH in the local soils and waters. Soil and water samples were collected from crop fields to compare them to non-cropped fields. Faculty Sponsor: Dr. Jennifer Demchak

ORAL PRESENTATIONS: Rooms 312 & 317 1:00 p.m. - 5:00 p.m.

Room 317 - 1:15 p.m. - 5:00 p.m.

Interactions between Goldenrod and Galling Flies. We investigated the interactions between galling flies and goldenrod. We found that there was no effect on the growth of the goldenrod due to the galling flies. There were twice as many galls found in sunny areas than shady areas. We found no relationship between the size of the gall and the size of the larvae. Faculty Sponsor: Dr. Steven Stein

Programming an Effective Text Macro. This paper details the difficulties faced in developing an efficient program used to automatically type text on the user’s behalf. Discussed within are the shortcomings of existing methods and the process of developing more complex but ultimately viable functions. Faculty Sponsor: Dr. Yucong Liu

Investigating the Growth of Peas using Hydroponic versus Soil Growing Methods. This research explored the effects of using hydroponic systems as the growing method compared to using soil as the growing method on the growth of pea plants. This study also compared the effects of using distilled water versus tap water in a hydroponic system on the growth of pea plants. I found that peas grew best in both distilled and tap water treatments. Faculty Sponsor: Dr. Steven Stein

Social Interactions of Patients with Eating Disorders. Eating disorders have been shown to cause alterations in social interactions between parents, siblings, friends, significant others, and themselves. These changes happen for various reasons including trauma, biological factors, interpersonal issues, sociocultural ideas, as well as long-term dieting. Faculty Sponsor: Dr. Gretchen Sechrist

The Effects of Peer Conflict on School Attendance. School is essential to the everyday life of children and is crucial for a child’s social and academic development. Sadly, there are a number of children who refuse to attend school. The focus of this talk is to discuss the role of peer conflict in
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Katlynn McDaniels - Psychology: Forensic Psychology 3:00 p.m. - 3:15 p.m.

How Can Cognitive Interviewing Detect Deception During Police Interviews? In the criminal justice system, two forms of deception corrupt the interviewing process. Deception can be gathered from either a victim or a suspect during interviews. When it comes to detecting this deception, cognitive interviewing has been shown to significantly detect more deception and veracity compared to other techniques. Faculty Sponsor: Dr. Gretchen Sechrist

Emily Good - Psychology: Human Resource Management 3:15 p.m. - 3:30 p.m.

Returning to Work After Childbirth: Organizational Deterrents and Reinforcers. This presentation aims to identify the main reasons women choose not to return to work after childbirth, as well as ways organizations can encourage new mothers to rejoin the workforce. Various deterrents are discussed, and positive reinforcers organizations can implement to help reduce turnover and retain talent are considered. Faculty Sponsor: Dr. Brian Loher

Neo Slave Narrative Panel - English 3:45 p.m. - 5:00 p.m.

Students deliver papers that analyze 18th and 19th century American slave narratives as well as 20th and 21st century African American novels that are based on or inspired by these narratives. Themes include resistance to rape and coercion and the struggle for equality. Faculty Sponsor: Dr. Lynn Pifer

1. Charlotte Kane - English: Literary and Cultural Analysis 3:45 p.m. - 4:00 p.m.

Bound by Gender and Race: The Duality of Cruelty Against Slave Women. This paper examines the gender-specific cruelties slave women endured, speaking on topics such as rape, abuse, the term “jezebel,” and the extreme scrutiny black women are placed under, looking specifically at Linda Brent's Incidents in the Life of a Slave Girl.

2. Adam Setzer - English: Professional Writing 4:00 p.m. - 4:15 p.m.

Madman Martyr: John Brown's Portrayal in James McBride's The Good Lord Bird. This essay analyzes the portrayal of John Brown that author James McBride creates in his novel The Good Lord Bird and examines the effect that it has on the reader based on the typical depictions of John Brown.

3. Rachel Roupp - English 4:15 p.m. - 4:30 p.m.

"I Break Chains All By Myself": Slavery and Sexual Agency. This essay examines the relationship between sexual abuse, slavery, and the reclaimed bodily autonomy of former slaves as depicted in James McBride's The Good Lord Bird and Linda Brent's Incidents in the Life of a Slave Girl.

4. Devyn Sivers - English Education 4:30 p.m. - 4:45 p.m.

The Timeless Characteristic: The Enslaving Bond. This essay examines rape culture and the tendency to blame rape victims in Octavia Butler's novel Kindred and how such tendencies continue in society today.

Room 312 - 1:15 p.m. - 5:00 p.m.

Adam Klinger - History and Political Science 1:15 p.m. - 1:30 p.m.

The Continental Congress. I will be describing the Continental Congress’s actions during their meetings, the delegates’ lives, and how their decisions influenced America. Faculty Sponsor: Dr. Karen Guenther

Benjamin Manning - Social Studies: History Education 1:30 p.m. - 1:45 p.m.

The Winter at Valley Forge, 1777-1778. As the year 1777 came to a close, the American Revolution was at its most desperate point. After suffering defeats in multiple battles and losing the
capital city of Philadelphia, George Washington and his ragged army would encamp at Valley Forge for the oncoming winter. They would experience great hardship, but in the end they would come out of Valley Forge stronger than ever. Faculty Sponsor: Dr. Karen Guenther

Ian Roll - Social Studies: History Education 1:45 p.m. - 2:00 p.m.

**The Foundation of America?** It has been noted that colonial Pennsylvania had a major impact upon the foundation of United States policies. This presentation’s purpose is to try and find any shortcomings or mistakes regarding this notion, in order to determine if Pennsylvania had as much impact on the foundation of the U.S. as claimed. Faculty Sponsor: Dr. Karen Guenther

Victoria Royal - History 2:00 p.m. - 2:15 p.m.

**The Length of My Nose.** The Founding Fathers of the United States are idolized for their revolutionary ideas and contributions to the nation. While they continue to seem larger than life, their achievements are far more extraordinary when it is reaffirmed that they themselves were ordinary. This research humanizes Alexander Hamilton by detailing his personal relationships and brings reality to the image of a famous figure. Faculty Sponsor: Dr. Karen Guenther

Rachelle Boyd - Social Studies: History Education 2:15 p.m. - 2:30 p.m.

**The Pennsylvania Line Mutiny.** This American Revolution mutiny is considered to be one of the most successful for the Continental Army. The issue was that the continental troops were upset with the way that the Pennsylvanian government was treating them. The troops were upset with the enlistment contracts that they were supposed to be following. Faculty Sponsor: Dr. Karen Guenther

Will Mitchell - History 2:30 p.m. - 2:45 p.m.

**Philadelphia at the Time of the Constitution.** A brief look at Philadelphia in and around the time of the Constitution. This paper will attempt to illustrate the way the Constitution was received in the city as well as the influences the city had on the Constitution as it was created. Faculty Sponsor: Dr. Karen Guenther

Seth Lomas - History 2:45 p.m. - 3:00 p.m.

**John Fitch’s Steamboat.** John Fitch was a man lost in history. His invention was revolutionary and helped modernize transportation. However, the changing government in the United States would prove costly for the man and his invention. His invention would be stolen by someone else, and John Fitch would be forgotten. Faculty Sponsor: Dr. Karen Guenther

Abby Shenot - Social Studies: History Education 3:00 p.m. - 3:15 p.m.

**Carlisle Indian Industrial School: A History.** This presentation will provide an in-depth analysis of the Carlisle Indian Industrial School. There will be information provided on how it came to be, who founded it, and how the school was run. There will also be examples of how the curriculum in the Carlisle School differed from the non-Native American Schools. Faculty Sponsor: Dr. Karen Guenther

Jeffrey Pelachick - Social Studies: History Education 3:15 p.m. - 3:30 p.m.

**A History of the Pennsylvania State Police.** The presentation will cover a brief history of the Pennsylvania State Police, women in the state police, and local landmark cases. Faculty Sponsor: Dr. Karen Guenther

Amanda Sheakoski - Social Studies: History Education 3:30 p.m. - 3:45 p.m.

**Lili Elbe: Her Life and Legacy.** This presentation examines the life of Lili Elbe, who was the first identifiable recipient of sex reassignment surgery back in 1930. By agreeing to take part in what was then an experimental procedure, she helped aid in the progress and perception of transgender individuals for many years to come. Faculty Sponsor: Dr. Karen Guenther
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Sarah Nezelek - Social Studies: History Education - 3:45 p.m. - 4:00 p.m.

Hershey, The Man and The Legacy. Milton S. Hershey was an entrepreneur in the candy and chocolate business, successfully creating one of the largest candy empires in American history and the world. This paper will provide an overview of his life, achievements, and setbacks as he fought towards his goal of becoming a successful chocolatier and businessman. Faculty Sponsor: Dr. Karen Guenther

Alicia Gerg - Safety Management and Geosciences: Environmental Science 4:00 p.m. - 4:15 p.m.

Wednesdays with Russ. This presentation is a life history project on Russell Dodson, a long-serving faculty member at Mansfield University. This presentation will cover Dr. Dodson’s life and career, including his childhood, education, early teaching positions, and his career at Mansfield University. Faculty Sponsor: Dr. Janice Purk

Paige Kisner - Political Science and English: Professional Writing 4:15 p.m. - 4:30 p.m.

The Interplay of Domestic and International Factors in the 1956 Suez Canal Crisis. Egypt’s nationalization of the Suez Canal in 1956 provoked a major international crisis. While international factors such as the Cold War, imperialism, and the Arab-Israeli conflict shaped decisions, domestic political situations also influenced the outcome. This paper seeks to analyze the interplay of both international and domestic factors. Faculty Sponsor: Dr. Jeffrey Bosworth

Katie Frisbee and Micki Anderson - Community Health Education 4:30 p.m. - 4:45 p.m.

The Purple Promise. A presentation directed toward caregivers of loved ones with Alzheimer’s disease. The topics to be covered include caregiver burden, ways to overcome it, and local resources to help caregivers. Faculty Sponsor: Mrs. Glorianne Dziuba

Richard Pollock - Mathematics and Music Education 4:45 p.m. - 5:00 p.m.

College Mathematics Journal Problem. Last semester I worked on this problem from the College Mathematics Journal: Evaluate \( \sum_{n=0}^{8} \frac{16n^2+4n-1}{(4n+2)!} \) by Sintamarian from the Technical University of Cluj-Napoca. Using Maclaurin Series, Euler’s Identity, and 4th roots of unity, I was able to work out the problem and so submitted the answer to get it published. Faculty Sponsor: Dr. Clarence Lienhard

Art Exhibits: Corridor outside Alumni Hall 307 9:00 a.m. - 4:00 p.m.

Kristen Tenny - Graphic Design: Print Graphics

2D Poster, Ink Print, Intaglio Print. A 2D Poster focusing on using an existing identity for World Wildlife Foundation and creating a conference with the title of Transforming Connections. An Ink Print using historically significant prints/paintings and creating a woodcut piece. An Intaglio Print using the process of etching in acid to create an image on a zinc plate. Faculty Sponsor: Michelle Schlegel

Jessica O'Donnell - Graphic Design: Print Graphics

Gila Monster 1, Using Existing Identities: Animal Planet, Coiled Typeface. A ceramic clay piece painted with glaze from a one-piece mold. A set of prints meant to showcase and promote a hypothetical conference for Animal Planet. A printed work to show of the illustrative font. Each character was hand drawn before scanning into the computer. Faculty Sponsor: Michelle Schlegel

Chad McKay - Graphic Design: Print Graphics

Ceramics: Dirt Glaze Bowl, Dirt Glaze Bottle (Large, Small); Wooden Signs: LMAO, Lit AF. Ceramic pieces created in Advanced Ceramics, utilizing a custom made dirt glaze produced from locally sourced soil and ashes. Wooden signs produced as part of an exercise for Advanced Typography. Faculty Sponsor: Michelle Schlegel
Brock Schnoke - Graphic Design: Print Graphics

**Glyph, Tiger in Headdress.** Glyph includes three pieces which use photography, a poster, and a handmade package in order to showcase the beauty of the letterform U. Printmaking has many different forms. Tiger in Headdress shows the artist’s love for Native American art and culture with his favorite animal, the tiger. Faculty Sponsor: Michelle Schlegel

Melanie Hartley - Graphic Design: Print Graphics

**Tattoos and Scars.** This series of photographs is part of a collection from a show titled, “Tattoos and Scars.” The three people photographed are close family members. They each experienced an injury from a surgery or an accident that left a permanent scar. The person’s life story is written in these scars. Faculty Sponsor: Michelle Schlegel

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**Poetry: 317 Alumni Hall  12:00 p.m. - 1:00 p.m.**

Students in ENG 2252: Introduction to Poetry Writing present their poems on a variety of subjects, including love, loss, addiction, and pop culture. The program includes formal, free verse, persona, and spoken word poetry.

Sam Mitchell - Geosciences  **On My Fifteen Minutes of Fame** and **Love Poem to a Dead Girl**

Taylor Donahue - English  **A Lullaby at Sleeping Bear Dunes** and **The Suicide Note**

Elizabeth Stiadle - Music and English: Professional Writing  **Harley Quinn**

Evan Johnson - Liberal Studies  **True Monsters**

Keith Brown - Psychology  **Darknight, No Home**, and **Be Me?**

Rachel Clark - English: Professional Writing  **Seesaw Girl** and **The Purple Flower**

Ziare Lynch - English  **Black Daffodil** and **0.25%**

Anna Monk - Psychology  **Case 1991** and **Children of Heroin**

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**Music Performances: 301 Alumni Hall  12:00 p.m. - 2:00 p.m.**

**The Mansfield Brass Quintet: 12:00 p.m.**

Cameron King, Daniel Rodriguez, Dylan Krall, Andres Menges, and Brooke Peterson

Faculty Sponsor: Dr. Nathan Rinnert

Brass Quintet Selections:

- **Italian Medley** - arr. James “Red” McLeod
- **Hymn of Axiom** - Vienna Teng, arr. Jonathan Pedraza
- **Radioactive** - Imagine Dragons, arr. Reese Blaskowski
- **The Incredibles** - arr. Reese Blaskowski
- **Sweet Victory** - Jack Hopey

**The Chamber Singers: 12:30 p.m.**

Soprano: Megan George, Shannon Pizzirusso, and Cassie Zikan

Alto: Donavan Darienzo, Caroline Hutchison, Helen Isaacson, and Elaine Torres

Tenor: Kyle Cannon, Robert Garrison, Nathan Shedd, and Damien Wickizer
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Bass: Malcolm Layau, Jacob Myers, John Tobey, and Nicolas Wathen

Faculty Sponsor - Dr. Peggy Dettwiler

The Chamber Singers Program

Calvary (Spiritual, arr. Kenneth Dake) – Cassie Zinkan, Soprano
Were You There? (Spiritual, arr. Harry Burleigh)
Abide with Me (William Monk, arr. Greg Jasperse)

Tayana Woodton - Music: Instrumental Performance (Cello) 1:00 p.m.

Unaccompanied Solo Cello. Performing Unaccompanied Cello Suite No. 4, Mvt. III, “Courante”, by J.S. Bach. Faculty Sponsor: Dr. Nathan Rinnert

Mary Capilitan-Pulanco - Music Education and Music Technology 1:15 p.m.

Hommage a Manuel de Falla. Hommage a M. de Falla was composed in the style of a flamenco, a traditional Spanish dance. Manuel De Falla (1876-1946) was a notable Spanish composer. Bella Kovacs (b. 1937) writes the clarinet to sound like several instruments, from trumpet fanfares to a Spanish guitar. Faculty Sponsor: Mr. Richard MacDowell

Kenny Unger - Music Education 1:30 p.m.

“The Fair Queen.” I wrote this song about my girlfriend who was the 2016 state fair queen of agriculture. I love my girlfriend dearly and I love agriculture and music. For this reason, I wrote a song that is very beautiful and labeled “The Fair Queen,” a bit of a play on words as the song suggests a fair and beautiful queen. Faculty Sponsor: Dr. Andrew Walters

Media Exhibits: 314 Alumni Hall 9:00 a.m. - 4:00 p.m.

Django Klumpp, Josh Braun, and Joel Poritsky - Music Technology

1. Django Klumpp - Siren
2. Josh Braun - Untitled
3. Joel Poritsky - Alien

Presentation of three electronic music pieces constructed from sounds from outer space. Faculty Sponsor: Dr. Andrew Walters

Madison Anthony, Dayjah Brock, Julie Cooper, Sarah Griggs, Dylan Lozo, and Kimberly Reed-Hyman - Spanish

Poema. Poema is a creative writing project in Spanish, based on our exploration of Javier Heraud’s poetry. Heraud (Peru, 1942-1963) was strongly aware of the social injustice and oppression in his country and decided to fight against them. With a grant, he travelled to Cuba to study film and later became a member of the Revolutionary Army in 1961. The young poet is considered to be the founder of the New Poetry Movement in Latin America. Faculty Sponsor: Dr. Fanny Arango-Keeth

Mackenzie Souder, Amber Skworzow, and Taylor Marker - Nursing

Creative Presentation. A creative presentation of the background and nutritional information on the Caribbean Islands. Faculty Sponsor: Mrs. Glorianne Dziuba

Cody Munyon and Reid Parker - CIS: Computer Science and Information Systems

Bug Buster. Our application is a remake of the classic “Brick Breaker” game. Written entirely in Java, our version is known as “Bug Buster” and features several modifications from the original game. Faculty Sponsor: Dr. Yucong Liu
Screencast: Featuring the Mountie Express and TransLoc App. We created two screencast tutorials to teach freshmen how to locate the Mountie Express stops, identify the times the shuttle runs, as well as recall the features on the Transloc App. Faculty Sponsor: Ms. Bia Bernum
A Celebration of Mansfield University’s
Student Scholarly and Creative Achievements

7th Annual Showcase of
Student Scholarship

This event was coordinated by Gretchen Sechrist and John Ulrich.

Thank you also to President Hendricks, Provost Steven Siconolfi, Dean Nancy Sidell, Wanda LaBar, Tammy Hagar, Lilace Guignard, Houston Baker, Mari Rowley (Psychology student), the Facilities Department, and Sodexo.

Special thank you to Sheila Kasperek for allowing us to use her design for the program cover and for creating the digital version of the Showcase.

Mansfield University is a member of the Council of Public Liberal Arts Colleges (COPLAC).