Mansfield University
Showcase of Student Scholarship 2015

Alumni Hall Rooms
307 312
314 317

“Show What You Know!”
Scholarly and Creative Achievements in the form of:
Poster Presentations
Oral Presentations
Poetry Reading
Video Display
Art Exhibit
Music

Program of Events

Join us on Earth Day to celebrate student scholarly and creative achievements

April 22, 2015
9am-5pm

Light refreshments will be available!

This event is co-sponsored by the Institute for Science and the Environment, Academic Affairs and Student Affairs.
WELCOME MESSAGE FROM THE PRESIDENT

It’s my pleasure to welcome you to Mansfield University’s fifth 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 on Earth Day—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
Brig. Gen., USAF (Retired)
President, Mansfield University
Program of Events
April 22, 2015

Welcome by Interim Provost Dr. Roy Stewart at 12:45 p.m. in Alumni Hall 307

POSTER PRESENTATIONS: SESSION I - Corridor Area - 9:00 a.m. - 12:00 p.m.

Jon Sova - Early Childhood/Elementary Education

The Effect of Grain Weight on Arrow Penetration - As a K-4 teacher candidate, I wanted to show my students that our understanding of the natural world may be flawed. Science demands evidence and a systematic way of determining if some of our beliefs are in accord with the laws of nature. In this experiment, I investigate the effect of grain weight on penetration. My hypothesis was that the arrow will penetrate lighter grain further due to continued sustained velocity. Faculty Sponsor - Dr. Michele Whitecraft

Marc Kiessling - Chemistry

Untitled - The 4f-4f electronic transitions are characteristic of the lanthanides, reflecting the unique electronic structure of these elements. Using UV-Vis spectroscopy, the oscillator strengths of these transitions were measured in several different chemical environments. The oscillator strengths of the different transitions were used to determine Judd-Ofelt unitary matrix parameters. The dependency of the oscillator strengths and Judd-Ofelt parameters on the environment’s polarizability and partial charge were determined. Faculty Sponsor - Dr. Scott Davis

Abbey Westfall, Alexis Anderson, Jordan Mattison, and Gabriella DiMartino - Biology

Foraging and Sentry Behavior in House Sparrows - This study examines the differences in the sentry and foraging behavior of house sparrows in varying group sizes as well as in respect to location. Faculty Sponsor - Dr. Leslie Clifford

Colton Long - Political Science/Pre-law

A Hundred Dollars and a Bottle of Rum: Corruption in Belize’s Imperfect Democracy - Instances of systematic political corruption and their effects on Belize’s political and economic systems are analyzed. Recommendation to combat corruption in the country also is offered. Faculty Sponsor - Dr. Jeffrey Bosworth

Anthony Diasparra - Political Science/History

Tourism in Jamaica? Is It Worth It? - The basis of the research is to see if tourism in Jamaica is worth the consequences it produces. The economic impacts are good, but the environmental and social impacts weigh in to the final question. All in all, tourism is worth these risks, due to the economic benefits. Faculty Sponsor - Dr. Jonathan Rothermel

Gerald Delaney - Political Science

Russian Foreign Policy in its Near Abroad - An analysis of Russia’s foreign policy approach to the nations in its near abroad, examining the cases of Belarus, Ukraine, Armenia, Kazakhstan, Moldova and Georgia. Faculty Sponsor - Dr. Jonathan Rothermel

Jason White - Philosophy/Political Science with minor in Mass Communication: Public Relations

Tourism in Belize: Who Benefits? - Investigation of tourism profile in Belize looking at overnight tourism vs. cruise ship tourism and who benefits. Faculty Sponsor - Dr. Jeffrey Bosworth

Dustin R. Ackley - CJA/PSC

Quakerism in the Abolitionist Movement of Pennsylvania - Starting with Quaker founder George Fox, this paper looks into the individuals and laws that made it possible to abolish slavery in both Pennsylvania and the United States. The project examines how these people and events led to the American Civil War and the abolition of slaves in the United States. Faculty Sponsor - Dr. Karen Guenther
Ariel Faber - Political Science

The Russification of Turkey’s Media - The presentation will show data and highlight the main points from my research on the increase in media censorship in Turkey and its similarities to media censorship in Russia. Faculty Sponsor - Dr. Jeffrey Bosworth

Alec Aucker, Melissa Cruz, Teaka Frank, Ariel Funke, Hunter Hill, Benjamin Hockenberry, Herbert Kinney, and Alysia Snyder - Spanish

Jardín japonés - Following our research in intercultural literacy and our exploration of Japanese-Peruvian literature published in Spanish, our presentation will include a selection of haiku written in Spanish, translations from Spanish into English of the poem “Jardín japonés” by Japanese-Peruvian poet José Watanabe with a critical introduction, and an artistic display of a Zen garden. Faculty Sponsor - Dr. Fanny Arango-Keeth

Patrick Homan - Environmental Science

Coastal Erosion of Louisiana - The issue of coastal erosion that is impacting the coast of Louisiana is explored. The project examines the impacts of this issue and how other countries have managed the same issues with coastal erosion, mainly the Netherlands. Estimates of how much coastal area would need to be restored and how much a restoration project like this would cost, all based on the practices done by the Netherlands, are suggested. Faculty Sponsor - Dr. Andrew Shears

Joseph Mandeville - Chemistry - Forensic concentration

Electrochemical Detection of Lead in Gunshot Residue - With many crimes involving firearms, it is important to be able to examine evidence that contains traces left from the weapon and match it to the perpetrator. Since trace amounts of lead (Pb), barium (Ba), and antimony (Sb) can be indicative of a recently fired firearm, electrochemical techniques were used to investigate lead (Pb) content on a shooter’s hands for different ammunition and firearms. Faculty Sponsor - Dr. Michele Conrad

Danielle Gilbert - Biology and Psychology

How Green is MU? - The research will present past, current, and anticipated sustainability efforts and achievements on the Mansfield University campus. The goal is to raise awareness about what has been and is being done, and to spark discussion of what new initiatives should come next. Faculty Sponsor - Lilace Guignard

POSTER PRESENTATIONS: SESSION II - Corridor Area - 12:00 p.m. - 3:00 p.m.

Monay Colburn, Ryneesha Collins - Psychology

Effects of First Name and Address on Hiring Decisions - Research examines the influence of first name and address on hiring decisions. Results showed that gender (but not race) of first name and address (poor vs wealthy city) do influence hiring decisions. Faculty Sponsor - Dr. Gretchen Sechrist

Erin Ratliff, Kaitlyn Meyer, Annie Dunn, Marissa Zerby, Rose MacKay, Chelsey Gavin, Katelyn Gavin - Psychology

The Effects of Media Messages and Perspective-taking on Prejudice Toward Individuals with Mental Illness - Research suggests media messages about violent crimes that emphasize an individual’s mental illness increase prejudice toward individuals with mental illness. This study examined if perspective-taking would reduce this effect. Participants read a news article emphasizing mental illness or not, and were asked to take the perspective of an individual with mental illness or not. Attitudes toward individuals with mental illness were then assessed. Results demonstrated that perspective-taking reduced prejudice. Faculty Sponsor - Dr. Gretchen Sechrist
Kylie Smith and Erin Ratliff - Psychology

The Effects of Empathy and Social Exclusion on Prosocial Behavior - The current study examined the influence of empathy and social exclusion on individuals' willingness to engage in prosocial behavior. Participants were provided with information to make them feel socially excluded or included and then read an empathy-evoking or a neutral article. Prosocial behavior was measured by participants' willingness to donate to a fictitious campus organization. Results demonstrated that socially included participants given the empathy manipulation helped less than all other participants. Faculty Sponsor - Dr. Gretchen Sechrist

Emmie Reese and Sydney Hoffman - Psychology

See No Evil, Hear No Evil: The Effects of Auditory and Visual Stimuli on Perceptions of Violence and Aggression - This study examined the influence of auditory, visual, and auditory-visual stimuli on perceptions of violence and aggression. Results showed that participants perceived a film clip to be more violent when they could only hear it (auditory), followed by when they could only see it (visual), as compared to when they could hear and see it (auditory-visual). Participants in the visual and auditory conditions also report feeling more aggressive than participants in the auditory-visual condition. Faculty Sponsor - Dr. Gretchen Sechrist

Hannah Darrenkamp and Nicole Horton - Psychology

The Effect of Stereotypes and Appearance on Perceptions of Feminists - The research presented examines the influence of labels (feminists) and appearance on interest in a group. Implications and gender effects are discussed. Faculty Sponsor - Dr. Gretchen Sechrist

Alexa Dhuy, Rebbeca Turnbull, Bobbie Brignola - Psychology

Judging a Book By its Cover: Rating Personality and Intelligence by Facebook Profiles - Results showed that non-sexualized profiles are viewed more favorably in terms of perceptions of intelligence and professionalism than sexualized profiles, especially when no additional personal information is provided. Faculty Sponsor - Dr. Gretchen Sechrist

Mari Rowley and Matthew Dillon - Psychology

The Effects of Expected and Actual Task Difficulty on Aggression - The research focuses on the influence of actual task difficulty and expected task difficulty on aggressive behavior. Results showed participants were more aggressive when they expected the task to be difficult as compared to easy. Faculty Sponsor - Dr. Gretchen Sechrist

Jesse Olson - Geosciences

Mapping Carolina Bays for Morphometric Analysis - In this study, a geomorphic and spatial analysis is performed using multiple layers to explore the best data and method for mapping Carolina Bays. Derived from this case study is a database containing quantity, distribution, area, length, width, ellipticity, and orientation of mapped Carolina Bays for spatial and morphometric exploration. Faculty Sponsor - Dr. Lee Stocks, Jr.

Carly Golden, Michelle McKissick, Matthew Moccia, Erin Ratliff, and Stephanie Richards - Biology/Psychology

Genomic Analysis of Bacteria Isolated from Wild Fruit Flies (Drosophila melanogaster) - The students attended a 4-day workshop in the winter vacation for project orientation, DNA extraction, and preparation for Illumina sequencing and a 2-day weekend training in sequence analysis. Presented here is a preliminary summary of the Mansfield University students' genomic analyses of their respective bacteria. Faculty Sponsor - Dr. Jeanne Kagle

Matthew Oldroyd and Clayton Schucker - Environmental Science

Physical Stream Assessment: Channel Gradient and Channel Cross Section Profiles, Mill Creek, Tioga County - We present initial research conducted that describes the physical characteristics of the lowest reach of Mill Creek including the surveyed channel gradient and three representative channel profiles. This research is the first of a series of student research projects which will result in a physical, chemical, and biological assessment of the lower portion of Mill Creek. Faculty Sponsor - Dr. Linda Kennedy
Nathan Harpster - Geosciences

**Environmental Geophysics Investigation of Hammond Lake Ice** - Field exploration and data collection were initially conducted on Hammond Lake in Tioga County during early March while the ice was still safely navigable. The objective of this work was to run multiple transects, while adjusting the trigger intervals and number of samples with the 100MHz antenna, to determine the ideal settings for best interpretation of data in a frozen lake environment. Raw data was captured and recorded on a laptop in the field, and later post-processed and interpreted, using Mala Groundview software. Faculty Sponsor - Dr. Lee Stocks, Jr.

Danielle Gilbert - Biology/Psychology

**Pallesthesia Abilities in Cockroach Species** - Results of an experiment looking at the ability to sense low frequency vibrations in different cockroach species. Faculty Sponsor - Dr. Elaine Farkas

Kyle Cuddeback - Geography - Environmental Science Concentration

**Bioremediation of Wastewater Using Duckweed** - Poster presentation will discuss my undergraduate research on the ability of duckweed (*Lemna minor*), a fast-growing floating aquatic plant, to remove nitrate and phosphate in municipal wastewater. The purpose of this research is to gain more insight into the operational parameters of wastewater treatment using duckweed, which can produce large quantities of biomass with potential use in biofuels and livestock feed. Faculty Sponsor - Dr. Andrew Shears

Jacob Peffer - Geography

**Juvenile Crime and Sports** - The research project examines the amount and severity of juvenile crime in relation to what high school sports are offered within each county located in Pennsylvania. Examining these two topics for any correlation will help determine the energy and money Pennsylvania should spend on high school sports. This will be applicable not only for Pennsylvania, but also other states as well. Faculty Sponsor - Dr. Andrew Shears

Joseph Campbell - Geography - Mapping Technology Concentration

**Untitled** - Research describes the progress made on my project for GEG 4455 (Research Lab). Project research involves the collection, analysis, and visual presentation of crime data (exact years still to be determined) for the City of Williamsport, Pennsylvania, primarily through the creation of topical crime maps using ArcMap GIS software. Faculty Sponsor - Dr. Andrew Shears

Nathan Harpster - Geography - Environmental Science

**Geophysical and Geospatial Mapping of Tioga County Cemeteries** - This research attempts to create a database of all 271 cemeteries in Tioga County, geolocating all graves with headstones via GPS technology, mapping aerial extent of the cemetery with unmanned drones, and using GPR to locate unmarked graves. UAV captured aerial imagery provides a highly applicable method for the variance of cemetery terrains. This data is invaluable for genealogical and planning purposes, and can be utilized by public, private, and municipal sectors. Faculty Sponsor - Dr. Andrew Shears & Dr. Lee Stocks, Jr.

Arminda Nesle - Geography - Mapping Technology

**Abandoned Mines and Wells of Tioga County, PA** - The purpose of this project is to locate all possible abandoned mine and well locations in Tioga County and to produce a mapped database of these sites using GIS. The identified abandoned mines and wells will be reported to the Pennsylvania Department of Environmental Protection (PDEP) for its well plugging program. Additionally, the database will be served online to the public as an information resource for education, government and citizens, and will allow potential mitigation of acid mine drainage (AMD) into local watersheds. Faculty Sponsor - Dr. Andrew Shears

Wesley Glowitz - Geography - Environmental Science

**Unmanned Aerial Systems “Drones”** - The end goal of my research is to build a “how-to guide” that future students (or anyone) may utilize when conducting any UAV-related research. Faculty Sponsor - Dr. Andrew Shears
ORAL PRESENTATIONS - Rooms 312 & 317 - 1:00 p.m. - 5:15 p.m.

Sociology - Room 312 - 1:00 p.m. - 3:15 p.m.

Stephanie K. Crane - Sociology/Anthropology - 1:00 p.m. - 1:15 p.m.

**Parent/Student Relationship Prior to and After Leaving for College** - Project investigates how the relationship between parents and their child has changed from prior to leaving for college and as a student in college. Faculty Sponsor - Dr. Timothy Madigan

Samantha Mertz - Sociology/Anthropology - 1:15 p.m. - 1:30 p.m.

**The Influence of Parents’ Outlook on Children in their Adult Life** - This research examines individuals’ experiences with positive and negative parenting in their upbringing through a quantitative research questionnaire collected at Mansfield University. Research findings overall support the conclusion that socialization in one’s family environment influences current behavior patterns. Faculty Sponsor - Dr. Janice Purk

Sierra Blake - Sociology/Anthropology - 1:30 p.m. - 1:45 p.m.

**Relationships and Family Structure** - Project examines if students from divorced parents have unhealthier relationships. Faculty Sponsor - Dr. Janice Purk

Allen R. Copp - Sociology/Anthropology - 1:45 p.m. - 2:00 p.m.

**Attitudes Towards Homosexuality on a Small Rural University Campus** - Students were surveyed to find out what kind of exposure, negative or positive, towards homosexuality they had while growing up. The difference between how safe those students who identify as homosexual and those who identify as straight feel proves interesting. Faculty Sponsor - Dr. Janice Purk

Chelsea Smith - Sociology/Anthropology - 2:00 p.m. - 2:15 p.m.

**Family Life and Work Spill-Over** - The research focuses on the spill-over effect in a small community. Faculty Sponsor - Dr. Janice Purk

Sarah Fluck - Sociology/Anthropology - 2:15 p.m. - 2:30 p.m.

**Religious Activities and the College Students** - The goal of the research is to find out whether or not attending college negatively impacts the individual’s religious activities. The literature revealed that the influence of religiosity was both positive and negative on outcomes associated with stress among college students. Faculty Sponsor - Dr. Timothy Madigan

Shelby Dunning - Sociology/Anthropology - 2:30 p.m. - 2:45 p.m.

**Media’s Influence on Body Image** - What constructs our idea of beauty? What is it that makes us feel whether or not our own body is beautiful? I hypothesize that the more media people are around, the more likely they are to have a negative attitude towards their body. Faculty Sponsor - Dr. Janice Purk

Krystal Cunningham - Sociology/Anthropology - 2:45 p.m. - 3:00 p.m.

**Media’s Influence on the Self-Image of Students on a College Campus** - The purpose of this research is to see how the increasing amount of media viewed by students has impacted their self-image. Faculty Sponsor - Dr. Timothy Madigan

Isaac A. Nixdorf - Sociology/Anthropology - 3:00 p.m. - 3:15 p.m.

**Race and Education** - The project focuses on explaining the proposed theory stating that receiving a college education makes an individual less likely to support racist practices and ideologies. Faculty Sponsor - Dr. Timothy Madigan

Social Work - Room 312 - 3:15 p.m. - 3:45 p.m.

Rebecca Adams and Haley Stevens - Social Work - 3:15 p.m. - 3:30 p.m.

**Social Work and the Community** - We will be talking about our community’s project for our Practice with Communities and Organizations class. The main goal of this project was to team up with someone in the local community and help their organization or agency in any way possible that they needed. Faculty Sponsor - Dr. Mary Daly
Christina Lauer and Kristie Rollman - Social Work - 3:30 p.m. - 3:45 p.m.

**Hand in Hand for a Beautiful Life** - Our group plans to advocate for individuals who reside in the Broad Acres Health and Rehabilitation center, located in Wellsboro, Pennsylvania. Our overall mission is to recruit volunteers, who can help with weekly activities for the residents. Faculty Sponsor - Dr. Mary Daly

**Women’s Studies - Room 312 - 3:45 p.m. - 4:30 p.m.**

Riley Thomas - English - 3:45 p.m. - 4:00 p.m.

**Wangari Maathai** - This presentation discusses Wangari Maathai, an ecofeminist who fought for years for political democracy, equality, and the earth. Faculty Sponsor - Lilace Guignard

Markishala Coleman - Liberal Studies - 4:00 p.m. - 4:15 p.m.

**Backcountry Betty: An Unrealistic View of the Outdoors** - This presentation analyzes books marketed towards women that are aimed at preparing women to experience the outdoors. An emphasis is placed on the book *Backcountry Betty* and its suggestions on how women should prepare for and act while camping. Faculty Sponsor - Lilace Guignard

Brandon Earley - English - 4:15 p.m. - 4:30 p.m.

**It’s All Downhill: Michelle Dumaresq** - This presentation focuses on Canadian downhill mountain biker, Michelle Dumaresq. She was born a male, but was the first transgender person to compete in the women’s division. Faculty Sponsor - Lilace Guignard

**English - Room 312 - 4:30 p.m. - 5:15 p.m.**

Adrian Peery - English - 4:30 p.m. - 4:45 p.m.

**National Identity and Xenophobia in 18th-Century British Literature** - This paper examines the rise of a distinct British national identity and the way it manifested in 18th-century literature. The reflection of the economic situation and the fluidity of class structure combined with the growing unrest of the French revolution threatened the status of upper-class British society and resulted in a distrust of all things foreign. Faculty Sponsor - Dr. James Guignard

Miranda Peery - English - 4:45 p.m. - 5:00 p.m.

**True Love: Romantic Friendships between Women in the 18th Century** - In this paper, I use the novels *Clarissa* by Samuel Richardson, *Evelina* by Frances Burney, and *Mary* by Mary Wollstonecraft to illustrate the problems which were caused by “economic marriages” in the 18th century and the ways in which women used “romantic friendships” to fill the emotional void left behind by the deficit in male/female relationships. Faculty Sponsor - Dr. James Guignard

Brandon Earley - English - 5:00 p.m. - 5:15 p.m.

**Parties and Paintings: Connection through Creation in Virginia Woolf’s Works** - This paper explores the women in Virginia Woolf’s novels, *Mrs. Dalloway* and *To the Lighthouse*. This paper is all about women attaching who they are to the world and making their identities noticed. Faculty Sponsor - Dr. Andrea Harris

**Biology - Room 317 - 1:00 p.m. - 2:30 p.m.**

Zachary Holcomb - Environmental Biology - 1:00 p.m. - 1:15 p.m.

**Comparing the Effect of Biological Control, Frequency & Organic Pesticides on Aphid Populations** - We conducted an experiment to evaluate the effect of a complex environment on the success rate of the lacewing predator. Our results show both organic pesticides and biological control can be used instead of harmful inorganic pesticides for management of Homopterans, specifically aphids. Faculty Sponsor - Dr. Steve Stein
Specialist & Generalist Behaviors in Pollinating Insects - Since pollinating insects such as bees are able to pollinate a wide variety of plants, their behaviors are viewed as generalist behaviors. The presence of species competition and the coevolution of plants and insects has led to many adaptations, some of which may result in specialized behaviors from insects like bumble bees. These interactions and adaptations can be used to show that there are specialized individuals and specialized adaptations between species of plants and their pollinators. Faculty Sponsor - Dr. Steve Stein

Interactions Between Eurosta solidaginis and Solidago altissima - The different interactions among Solidago altissima, a common gallfly, and a parasitic wasp were studied in North-Central Pennsylvania. We compared the outer and inner portions of the fields and the heights among galled and not galled goldenrods. We also looked at the percent of goldenrod galls parasitized. Faculty Sponsor - Dr. Steve Stein

Crayfish Body Size and Population Distribution - A quantification of crayfish body length in regards to suitable habitat. Faculty Sponsor - Dr. Steve Stein

The Effect of Epinephrine and 5-Hydroxytryptamine (5-HT) on the Anatomical Location and Intensity of Biofluorescent Responses in Eviota pellucida (Gold Neon Pygmy Goby) - This research will explore a fairly unknown area of science, as the physiology of fluorescent marine organisms has not been extensively researched previously. We hope this research can indicate fluorescence as a potential use of communication within species, as well as exploring new fluorescent proteins that could be used for biomedical research. Faculty Sponsor - Dr. Robert C. Maris

The Effect of a Municipal Wastewater Treatment Plant Effluent on Macroinvertebrate Communities in the Conestoga River - This study provides evidence that the wastewater treatment plant effluent is having a harmful effect on macroinvertebrate communities in the river, likely due to degraded water quality. This information can be valuable when monitoring and assessing remediation efforts in the future. Faculty Sponsor - Steve Means

Gut Microbiota and Mental Health - The relationship between gut microbiota and mental health has become popular in the last 5 years. Past research has found associations between gut microbiota and anxiety, depression, autism, and schizophrenia. This presentation attempts to elucidate these popular research findings and provide a clear explanation of how gut microbiota affects mental health. Faculty Sponsor - Dr. Gretchen Sechrist

Promoting Academic Achievement by Overcoming Negative Parenting Styles - This presentation further expands on what is known about childhood neglect and the implications that negative parenting styles and low socioeconomic status have on success in school. Solutions for children facing these obstacles are discussed. Faculty Sponsor - Dr. Gretchen Sechrist

Re-thinking the Rules: Lowering the Concussion Rate - This presentation examines the negative psychological effects of concussions on athletes and suggest ways to lower concussion rates. Faculty Sponsor - Dr. Gretchen Sechrist
Lauren Davenport - Psychology - 3:15 p.m. - 3:30 p.m.

"Don't Leave!": Using Psychological Influences to Boost Retention - Presentation examines how employers can reduce turnover rates of employees. The purpose is to help human resource managers to retain employees. Faculty Sponsor - Dr. Gretchen Sechrist

Erin Bemis - Psychology - 3:30 p.m. - 3:45 p.m.

The Effects of Hookup Culture on College Students - This presentation will examine the literature on hookup culture and casual sexual relationships and their effects on college students, specifically the effects on college students' physical health, social life, and mental health. The purpose of this paper is to understand the overall data and to provide insight to what can be done by college and university student affairs programs to dismiss myths surrounding hookup culture and to provide education to their students about sexual behaviors. Faculty Sponsor - Dr. J. Dennis Murray

Nicole M. Horton - Psychology - 3:45 p.m. - 4:00 p.m.

Attachment Problems in Adopted Children: Predictors and Interventions - This presentation is on the research relating to attachment-related problems in adopted children. The study examines factors that contribute to adopted children's attachment difficulties with their parents, and also addresses interventions/therapies that can prevent problems or enhance attachment between adopted children and their parents. Faculty Sponsor - Dr. J. Dennis Murray

Angella Miller and Dylan Chapman - Criminal Justice Administration - 4:00 p.m. - 4:15 p.m.

Concentric Zone Hypothesis Research and Analysis - This project investigates the Concentric Zone hypothesis and how it applies to the Pittsburgh area and crime rates in that particular area. We related the zones specified in the hypothesis to crime rates in Allegheny County. Faculty Sponsor - Dr. Joshua R. Battin

Sheree Palmer - History - 4:15 p.m. - 4:30 p.m.

William Still and the U.G.R.R. - This presentation focuses on an abolitionist who started the first black YMCA. Before that, he helped slaves escape to a free state with the help of many other abolitionists. He freed over 2500 slaves in his time of helping. Faculty Sponsor - Dr. Karen Guenther

Jason Freezer - Political Science - 4:30 p.m. - 4:45 p.m.

Foreign Fighters in ISIS: What is Their Impact? - Discussion of the impact of foreign fighters within ISIS and how stopping the flow would affect the organization. Faculty Sponsor - Dr. Jonathan C. Rothermel

Dana Black - Computer Science - 4:45 p.m. - 5:00 p.m.

Mobile Ad Revenue and Microtransactions - This presentation includes the current forms of generating revenue from smartphone applications, through sponsorship, selling them, and microtransactions. Other possible ways to generate income that have not yet been implemented by developers and improvement to ideas that have not been successfully implemented are also discussed. Faculty Sponsor - Dr. Jaesung Sim

Poetry - 307 Alumni Hall - 2:00 p.m. - 3:00 p.m.

Riley Thomas - English

Musings of a Passionate Poet - Presentation includes three poems which explore the boxes of sexuality, gender, the issues of women, and personal experience. Faculty Sponsor - Lilace Guignard

Kelly A. Raleigh - English

Entitled Poetry - My chapbook of poems, “This Book of Poems is Entitled,” evokes the themes of the crisis my generation faces with identity, addiction, and sexuality. In particular, these poems indicate the feelings of mistrust that one generation can feel for another, while still attempting to attain and maintain their individuality. Faculty Sponsor - Lilace Guignard
Music/Performance - 307 Alumni Hall - 3:30 p.m. - 4:00 p.m.

Joe Kelleher, Benjamin Bloodgood, and Michael Florkowski - Music Technology

Three pieces of electronic music: All three electronic pieces are for 2-channel stereo playback.

Ricochet: Cage vs the Robots by Benjamin Bloodgood
A Spectral Crew on a Doomed Vessel by Joe Kelleher
Toxic Spills by Michael Florkowski

Faculty Sponsor - Dr. Andrew Walters

Mikaela Brown, Lance Welch, Rich Pollock, and Jeremy Brokos - Music Education/Pure Math

Winter - a saxophone quartet that Mikaela Brown composed. It is about the winter season and its bitter cold, as well as its unique beauty. Faculty Sponsor - Dr. Andrew Walters

Michael Iorio - Music Performance

Vicissitude - An original composition for saxophone quartet. Saxophone quartet consists of Lance Welch-Soprano Saxophone, Mikaela Brown-Alto Saxophone, Richard Pollock-Tenor Saxophone, and Jeremy Brokos-Baritone Saxophone. Faculty Sponsor - Dr. Andrew Walters

Art & Media Exhibits - 307 Alumni Hall - 10:00 a.m. - 3:00 p.m.

Jonathan Bagg - Geosciences

Evolution of Cartography - Will demonstrate the evolution of mapping by using modern day technologies to create an in-depth, easy-to-understand cartographic display. Faculty Sponsor - Dr. Andrew Shears

Gerry Luxenberger - Graphic Design

Reaper and Rose - Digital Illustration
The LuxenCurrier Homestead - Graphite Drawing
Untitled - Digital Imaging
Still Life - Graphite Drawing
Faculty Sponsor - Dr. Michele Schlegel

Rebecca Culver - Art Education

Turtles / Pineapples / Cookie Jar - three ceramic pieces.
Faculty Sponsor - Kenneth Cobb

Brian Rezek - Graphic Design

Free Spirit Angel - 2D - A grayscale portrait of a woman with wings, wearing headphones, and on the bottom it reads, “Don’t Quiet Your Daydream.”

Art City - 2D - A paintbrush illustrating a skyline into a blob of paint.
Heisenberg - 2D - Fan art of AMC’s Breaking Bad.
Faculty Sponsor - Dr. Nancy Clemens

Vince Mizzoni - Graphic Design

Pencil Self Portrait
Faculty Sponsor - Kenneth Cobb
Rachel Roupp - English

**Can the Child Within my Heart Rise Above?** - This is a two-part project with a mini-documentary based on women and their connections to youth. This film is the companion to a paper that ties together the music of Stevie Nicks, the novel *So Vast the Prison*, and themes that tie them together. Faculty Sponsor - Dr. Lynn Pifer


**MU60 Video Blasts** - MU60 targets alums and keeps them informed of news at Mansfield University. MU60 video blasts will be presented by a video loop display containing the short clips from MU60 episodes that have been recorded and released thus far. Faculty Sponsor - Dr. K. Sue Young

Austin Dragovich - Mass Communication: Electronic Media

**Austin Dragovich Presents** - This is a collection of professional quality videos. The videos span from documentary-style segments produced for Mansfield’s own *Into the Northern Tier* TV show to a short narrative film to a music video. Faculty Sponsor - Dr. Chuck Hoy

Megan Kiessling - Graphic Design: Print

**Snowy Owl** - Drawing in graphite pencil with India Ink painted background.

**Brown Owl** - 3D - Ceramic pinch pot painted with acrylics.

**Patterns in Nature: Tress** - Digital - A processing piece that reacts with sound to produce a nighttime scene with changing trees and a changing moon.

Faculty Sponsor - Dr. Mardi Whitehouse

Anais Sattler - Graphic Design/Marketing

**Type and Image Team** - Loomis gallery - David Higgins exhibition postcard and poster

- Loomis gallery - Master & grasshopper exhibition postcard and poster
- Typography - Fashion faces type book
- Branding and Identity - Juvo, Inc. origami book

Faculty Sponsor - Kenneth Cobb

Will Zaret - Graphics

**Field guides** - Abstract field prints, exploring different types of inks and processes. Faculty Sponsor - Kenneth Cobb
A Celebration of Mansfield University’s Student Scholarly and Creative Achievements

“Show What You Know!”

This event was coordinated by John Ulrich and Gretchen Sechrist.

Thank you also to President Hendricks, Provost Stewart, Wanda LaBar, Tammy Hagar, Jennifer Cummings, Cathy Martin, Rick Nelson, Scott Williams, Chris Bridges, Donna Miner, Ruth Hermansen, the Council on Undergraduate Research, Lilace Guignard, and The Institute of Science and the Environment.

Special thanks to Kenneth Cobb and students Sydni Rosenberg, Brock Schnoke, and Hanna Milillo, for volunteering to design the poster and program cover.

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