

Student Research & Creative Activity **SYMPOSIUM**

Monday, April 10, 2017

Hoeffner Science and Technology Center



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*“Education is the most powerful weapon
which you can use to
change the world.”*

— Nelson Mandela

WELCOME TO EAST STROUDSBURG UNIVERSITY'S STUDENT RESEARCH AND CREATIVE ACTIVITY SYMPOSIUM

The Fifth Annual Student Research and Creative Activity Symposium brings together the ESU community to celebrate the accomplishments of students from disciplines throughout the University. The work on display represents the talent, effort, and Warrior spirit of our students, as well as the dedication and expertise of the ESU faculty and staff who mentor our students. Thank you for attending and participating in our showcase of student research and creativity at ESU – Where Warriors Belong!

— Kevin Quintero and Marianne Cutler, Committee Co-Chairs

“The function of education is to teach one to think intensively and to think critically.
Intelligence plus character —
that is the goal of true education.”

— *Martin Luther King, Jr.*

SCHEDULE OF EVENTS

9 A.M. – 2:30 P.M., POSTER PRESENTATIONS

1st Floor Lobby

- 9 a.m. – 10:30 a.m. - Session A
- 11 a.m. – 12:30 p.m. - Session B
- 1:00 p.m. – 2:30 p.m. - Session C

11 A.M. – 12:30 P.M., SPECIAL PRESENTATION, 1ST FLOOR LOUNGE AREA

Student Computer Game Demonstration

Students will demonstrate 2D and 3D games that were submitted as projects for the Computer Game Development course (CPSC 442). All games presented were developed with using Unity game engine.

1–4 P.M., SIGMA XI RESEARCH FORUM, NIEDBALA AUDITORIUM

2–4 P.M., ORAL PRESENTATIONS

Classroom: 136, 138, 144, 145, 148

7 P.M., KEYNOTE SPEAKER, NIEDBALA AUDITORIUM

Corey Dolgon, Ph.D.

“Truthiness,” Junk Science, & Conventional Wisdom: Revolutionizing Knowledge for the 21st Century

Dr. Dolgon is the director of the Office of Community-Based Learning and Professor of Sociology at Stonehill College.

“An investment in *knowledge* pays the best interest.”
— *Benjamin Franklin*

KEYNOTE SPEAKER

Corey Dolgon, Ph.D.

*Director, Office of Community-Based Learning
Professor of Sociology, Stonehill College*



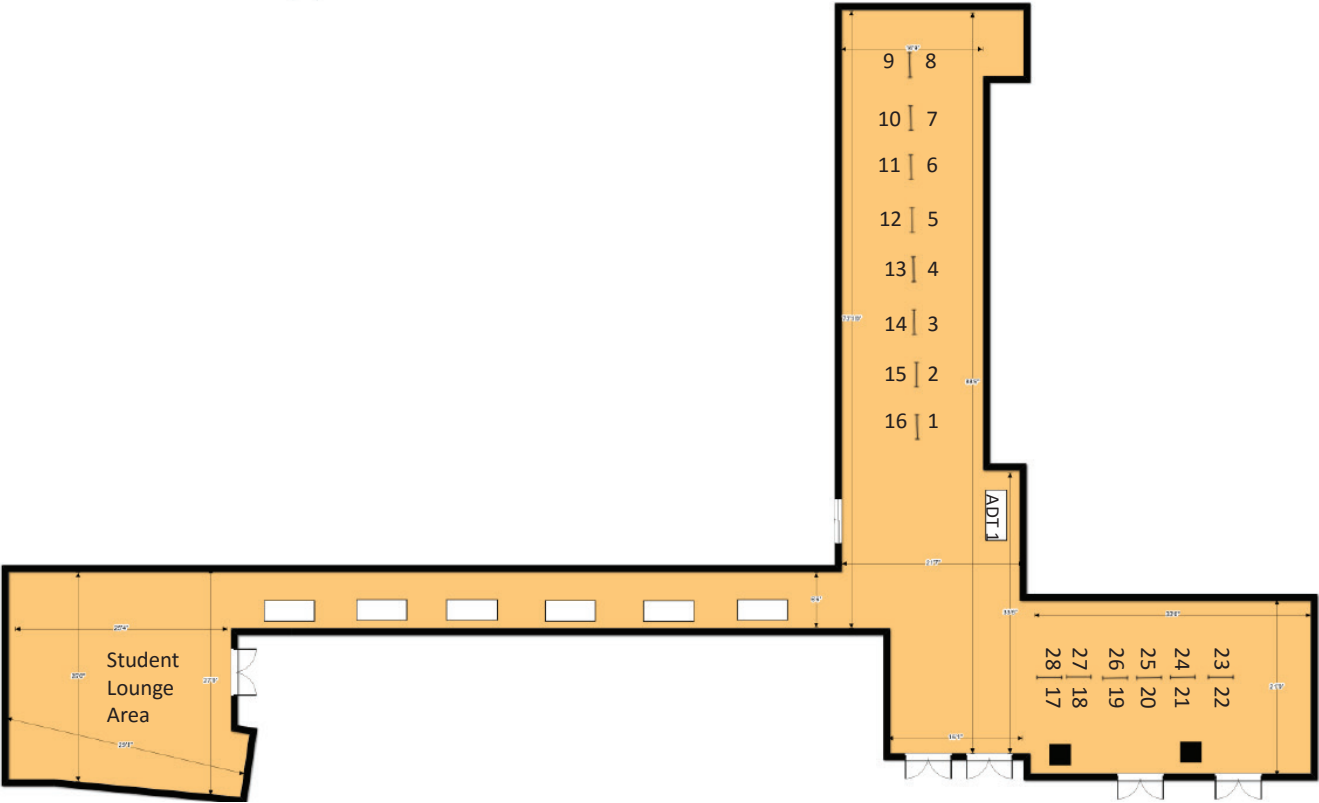
“Truthiness,” Junk Science, and Conventional Wisdom: Revolutionizing Knowledge for the 21st Century

This talk will examine the current political and social challenges to serious scholarly research and the application of knowledge to address social problems. Dr. Dolgon will present the ways in which science and the humanities have been attacked by economic and political movements whose tactics include attacking the very nature of facts and legitimacy of evidence-based research for the sake of political ideology and profit. He will suggest ways in which students, faculty and institutions can maintain and advocate for research and knowledge that matters while mobilizing truth squads and sanctuary campuses for intellectual endeavors and humanistic practices.

Dr. Dolgon is past editor of *Humanity and Society*, the Journal of the Association for Humanist Sociology, forthcoming editor of *Critical Sociology* and is currently on the editorial boards of *Teaching Sociology*, *Social Problems*, *The Journal of Applied Social Science*, *Humanity and Society*, and the *Michigan Journal of Community Service Learning*. He recently published three articles titled “Junk Freedom” and has two new books coming out in 2017: *Kill it to Save It: An Autopsy of Capitalism’s Triumph Over Democracy* and the *Cambridge University Press Handbook on Service Learning and Community Engagement*.

Corey has also been a folksinger, activist and organizer for 25 years. He has organized with labor organizations, environmental groups, and various anti-poverty and educational reform movements. Along with using his guitar and songs in meetings, as fund raisers, and “on the line,” Corey has also performed a singing lecture on folksongs and labor called “In Search of One Big Union: the Role of folksongs in the labor movement” for over 15 years. He has performed for labor unions and associations, as well as dozens of colleges and universities. He earned his doctorate in American culture from the University of Michigan in 1994.

POSTER SESSION FLOOR PLAN



POSTER SESSION A, 9–10:30 A.M.

Location	Presenter(s)	Title	Abstract	Department	Adviser
ADT1	Lacey Haldeman	The Effects of Inquiry Based Learning on the Science Achievement of First Grade Students	The purpose of this study is to determine the effects of inquiry based learning on the science achievement of first grade students. Twenty-one first grade students will be involved in this study. This will be a quasi-experimental study, and it will involve a pretest/posttest design. The students will be learning through inquiry during a liquids unit. Posttest scores will be compared to pretest scores to determine the effects of inquiry based learning on the science achievement of the first grade students.	Early Childhood & Elementary Education	Dr. Craig Wilson
1	Julie Rehrig	Service Learning through Computer Tutoring of Older Adults	Service learning is a way to gain valuable experience and insight into normally developing populations as well as those with differences and can be a valuable part of a communication disorders curriculum. At ESU, computer tutoring has been used for 17 years to allow UG students to interact with normally aging adults. This presentation will detail how the program has evolved and the vast array of opportunities to provide this service to both students and older adults.	Communication Sciences & Disorders	Dr. Elaine M. Shuey
2	Julie Rehrig, Jaclyn Kavanagh, Jennifer Price, the 2016 ESU Speech Science class	The Scranton /a/ Versus the Standard /a/: Formant Differences	Many speakers from the Scranton area display a dialectic difference as a substitution of /a/ for /ɔ/. In order to analyze their productions on the formant level, women who spoke the dialect and women who did not volunteered to be subjects. Most were from the 2016 ESU Speech Science class. They read a series of phrases that contained the /ɔ/ in the standard dialect. Formants 1 to 3 were compared between the groups. The mean of each formant was significantly higher for the dialect group than the standard group, explained by the lengthening of the vocal tract for /ɔ/.	Communication Sciences & Disorders	Dr. Elaine M. Shuey
3	Morgan Barry Seibert (student); Elaine M. Shuey (faculty); Jeffrey Ruth (faculty)	Interprofessional Education - A Collaboration Between Communication Sciences & Disorders and Modern Languages	Interprofessional education is an evolving concept in many areas of education and health care. This collaboration is usually between various health professionals, service providers, or educational professionals. However, this presentation involves an interprofessional educational collaboration between two very different groups: Communication Sciences & Disorders and modern languages. The project was an internship for a student majoring in both areas. The presentation will demonstrate the goals set for the project, the materials developed to work with individuals with English as a second language, and the outcomes, successes and problems that were encountered.	Communication Sciences & Disorders	Dr. Elaine M. Shuey

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
4	Noor Jabri, Darrell Costenbader	Family Tree	Students are interested in "Who Owns Whom". This research project creates a research poster about the Family Tree of Darden Restaurants, the largest non-fast food restaurant chain in North America. Darden started, operates the Olive Garden chain. Perhaps also some know Red Lobster was their creation, until it was spun off two years ago. Not many will know Darden serves us as the Long Horn Steakhouses, The Capital Grille, Seasons 52, the Yard House, Bahama Breeze, Eddie V, s Prime Seafood and more. This poster research project will display the tree and selected financial information about Darden.	Business Management	Dr. Douglas Nay
5	Justin Moran, Monica Harrison	Exploration of Opportunities – Where do we go from here?	This submission was inspired by employment opportunities and/or the lack thereof. Recent graduates experience challenges obtaining gainful employment. Students have proven themselves to be achievement oriented and proactive in their own future having made decision to investment in education. This presentation will aid in the discovery of platforms, human-capital, and resources. Providing an examination into the correlation between the degree obtained upon graduation, concentrations, and professional careers within your field of study. Emphasizing on why companies such as Google are leading based on the strength of their corporate culture and how effective leaders such as Sheryl Sandburg "lean in".	Business Management	Dr. Douglas Nay
6	Justin Moran, Monica Harrison	FAMME	FAMME a new business club, which will be launched on campus. The objective of FAMME within the Business Management core, is to create a platform for interaction between business students, creating a departmental/group vision that offers support for business projects, education in investments, such as 401 Ks, community outreach with CPR training, and career preparation courses in interviewing and Dress for Success. FAMME will focus on what it takes to thrive in business; while building new leaders to work within professional settings. Specifically, on those seeking a Degree in Business Management with concentrations in Finance, Accounting, Marketing, Management, and Economics.	Business Management	Dr. Douglas Nay

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
7	Nathanaele Dubreuil	Representational Translations in Organic Chemistry	A review of the chemical education literature demonstrates that concepts of chirality and stereochemistry are particularly challenging for first-year organic chemistry students. The ability to seamlessly translate between 2-D and 3-D representations of molecules is crucial for mastering these concepts. A series of modules were designed utilizing molecular modeling software (Spartan Student Edition) to provide a conceptually continuous pathway for students to move from 2-D to 3-D models. These modules include representational translations between line structures, Newman projections, ring conformations and 3-D models, as well as an in-depth introduction to chirality and isomerism.	Chemistry	Dr. Jon S. Gold
8	Phillip Reinhardt, Samantha Miller	Wine Analytics for Markers Important to Quality Control	The goal of this project, supported by the ESU Entrepreneurship Across the Colleges program, was to develop and validate testing protocols for the analysis of substances of interest to regional winemakers. Analytes for which methods have been created include sugars and organic acids that are important in the taste and mouth feel of a wine, sulfites which are necessary for the inoculation against harmful microorganisms, and total alcohol content. The development of additional methods for soil and plant tissue nutrients are ongoing. A self-sustaining laboratory that provides testing services to local wineries is anticipated to begin operation in May.	Chemistry	Dr. Richard S Kelly
9	Aarshi Singh	Cadmium Resistance Bacteria	Heavy metal contamination of soil and water around Blue Mountain, PA resulting from the zinc ore smelting by Palmerton Zinc Smelter has been of concern for decades. The zinc smelter stopped all operations in the 1970s. Across the affected area, efforts to reestablish normal vegetation began in 2008. We measured the current levels of metal-resistant bacteria and correlated this to heavy metal concentration in the soil above the smelters. Our long term goal is to quantify Cd-resistant organisms, determine their MIC, speciate the organisms, and identify using PCR whether the bacterial isolates contain cadmium efflux pump gene.	Chemistry	Dr. John Freeman

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
10	Pu Tian	Machine Learning Methods for Low Back Pain Feature Analysis	Low back pain (LBP) is some kind of disorder in muscles, nerves, and bones of the back. Typical sources of low back pain can include a combination of features. In this study, a set of data from patients and healthy people is used as a source to analyze the major reasons for the disease. We propose to implement various machine learning algorithms for the low back problem to figure the most significant features which can cause the low back problem and to identify a person is abnormal or normal using collected physical spine details/data.	Computer Science	Dr. Dongsheng Che
11	Samantha Washington	Train Wreck Effect: Understanding the Success of Reality Television	Since the success of Survivor, reality television has taken off. Every network has hopped on the reality TV train. People know the shows are staged, yet they are still successful. Why is that? This study explores just that. Participants completed a survey which questioned why they enjoy reality television and if they enjoy it at all. Results showed that people neither collectively like nor dislike reality television. However, people find pleasure in watching others face challenges and imagining themselves in those situations. This 'train wreck effect' is not consumed alone; many people enjoy watching reality television with others.	Digital Media Technologies	Dr. Beth Rajan Sockman
12	Joseph T. Dorsch	What are the Perceived Differences in Communication Effectiveness Between East Stroudsburg University Graduate Students and Faculty When Utilizing a Learning Management System	How does the instructor perceive the learners' attitudes towards using the LMS as a form of communication? The same question can be applied for the learners: how does the learner perceive the instructors' attitudes towards using the LMS as a form of communication? Once these questions have been researched the data can be compared to the party's personal attitudes towards using a LMS. If these notions are diminished, then the attitudes of both parties towards the LMS will improve, increasing the use of the LMS, and raising the standards of communication through the LMS in educational settings.	Digital Media Technologies	Dr. Carol M. Walker

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
13	Gabrielle Brescia	Effectiveness of Victims Advocacy Training	The purpose of the study is to assess Criminal Justice student's perceptions of sexual assault victims. Many Criminal Justice students will become first responders and it is of vital importance that they understand the bias involved approaching and reporting sexual assault cases. The study will also test the effectiveness of Sexual Assault Victim Advocacy Training and its impact on student's understanding of rape myths and law enforcement's approach toward sexual assault victims. The findings of this research will provide important information for the Criminal Justice program to consider additional education and training opportunities in Criminal Justice curriculum.	Social Work	Dr. Chin Hu
14	Miranda Zinn	The Work Experiences of Mental Health Certified Peer Specialists	A mental health peer support worker is an individual with mental illness who has advanced in his or her own recovery and been trained to assist their peers to progress. Understanding the barriers and facilitators of effective peer support work furthers the empowerment of the mentally ill by developing knowledge that can assist social workers to remove these barriers and implement peer workers effectively. Our study developed a survey of barriers and facilitators of peer support work and administered it to Pennsylvania peer workers. Results enabled us to test the survey's validity and describe the experiences of the responding workers.	Social Work	Dr. Laurene Clossey
15	Jessica Peters Tara King	The Journey of a Congolese Child	Our project will describe an event conducted for Global Week 2016 to draw the campus community's awareness to injustice in DR Congo. Darlene Farris-LaBar's class created life size sculptures depicting events in a script developed by Dr. Clossey's social work class in partnership with Empowering Lives International (ELI). ELI is an NGO that assists children in DR Congo. The script depicted events typically suffered by children in this country. The event both educated the community and collected money for ELI.	Social Work	Dr. Laurene Clossey & Prof. Darlene Farris-LaBar

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
16	Gabi Brescia, Tara King and Miranda Zinn	Competency-based Social Work Field Education	The panel discussion will focus on how the experiences of social work students during their yearlong field education placements are linked to the Council on Social Work Education (CSWE) Core Competencies. Presenters will highlight the application of social work knowledge, skills and competencies in a variety of practice settings including medical social work, homeless outreach and social policy. Attendees will have the opportunity to ask questions about how theory is integrated into practice, and how field education affords professional development opportunities.	Social Work	Dr. John Kraybill-Greggo
17	Nia Scott, Margaret (Peggy) Diaco	Sun Run X by Honda	Sun Run X by Honda is an imaginary car made entirely of solar panels. Nia Scott and Peggy Diaco created an entire advertising campaign around launching this very unique vehicle as a final project for Dr. Nancy Van Arsdale's Writing for Advertising class. The vehicle runs on Sun power as well as gas. Nia and Peggy developed magazine ads, a billboard ad, as well as ads for social media, radio, T.V. and newspapers. Nia and Peggy also developed an imaginary sponsoring campaign with Pocono Raceway by sponsoring a race to introduce this unusual car to race fans.	English	Dr. Nancy Van Arsdale
18	Destany LaBar	The Relationship between Female Students' Perception of Calculus 1 Professors as Role Models and Test Performance	Stereotype threat hinders stereotyped groups performances on difficult tasks in situations where negative stereotypes about their performance is often implied. Studies have been conducted to decrease this effect on female students in STEM classes. Marx and Roman found that the influence of a professor as a role model can decrease the effect of stereotype threat. There is also research that suggests female professors as role models have a stronger positive influence on female students in STEM classes than male professors. This study is designed to investigate these ideas by looking at past female students that have taken Calculus 1.	Mathematics	Dr. Kristen Noblet
20	Ashé Pope	Digital Chakra Paintings	As an Independent Study with Associate Professor David Mazure, Ashé Pope learned advanced Adobe Photoshop painting techniques. Ashé produced five completely digital paintings using the Cintiq Drawing Tablet and Apple Laptop Pro representing some of the 7 chakras.	Art & Design	Prof. David Mazure
21	Morgan K Weissbach	Drawings and Skulls	An exploration and developmental process of the use of automatic drawings and coordinated design on abnormal surfaces. Other elements are also explored such as the history of automatic drawing, as well as the use of illusions to turn a 3D object into an illustration.	Art & Design	Prof. David Mazure

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
22	Alisha Rohrer, Rachael Swartz	Scoby the Duck: Regaining Mobility with 3D Printed Prosthesis	Our research is focused on designing a prosthetic for a Moscovian duck named Scoby. 3-D printing this prosthetic allowed us to quickly and rapidly create various prototypes. Throughout the process, we hope to demonstrate how 3-D printing can be applied to improving the quality of life.	Art & Design	Prof. Darlene Farris-Labar, Prof. Jocelyn Kolb-DeWitt
23/24	Amanda Amodeo, Andreas Alomar, April Watkins, Evelyn Barone, Jessica Lepri, Jessica Ritter, Kristina Turturiello, Kyla Scott, Malcolm Law, Morgan Weissbach, Patrick McPartland, Rachael Swartz, Romario Levy, Sean Smith	Under the Sea Virtual and Augmented Reality Project	The Advanced 3D Design class will present their group project involving their 3D digital models in a Virtual and Augmented Reality presentation. This will take place during the poster display within the lobby of the Science and Technology Building. The Advanced 3D Design students will provide instructions at the event for the participants.	Art & Design	Prof. Darlene Farris-LaBar
25	Yadira Dejesus	The Effects of Guided Technology Instruction Versus Independent Technology Instruction on Reading Comprehension Skills of Third Grade Students.	The purpose of this study is to investigate the effects of guided technology instruction versus independent technology instruction on reading comprehension skills. The study will be conducted with 10 third grade students at Smithfield Elementary School. The design of study is a quasi-experimental repeated time series design. The treatment involves students in one group to learn through guided technology instruction, while the non-treatment group learns through independent technology instruction. The mean comprehension scores of the two groups will determine the effects of guided technology instruction versus independent technology instruction of third grade students.	Early Childhood & Elementary Education	Dr. Craig Wilson
26	Brittany Gelmire	Kinesthetic Learning on the Engagement of Kindergarten Students	The purpose of this research is to find the best practices to keep kindergarteners engaged and energetic in an all-day program. It has been noticed that many students become unengaged throughout the day due to becoming tired. Numerous kinesthetic activities will be used as a form of intervention to see what keeps students engaged the most. A pre-test and post- test will be given, along with intervention throughout the study.	Early Childhood & Elementary Education	Dr. Craig Wilson
27	Shea Neal	The Effects of Inquiry-Based Learning on the Science Achievement Scores in a Second Grade Classroom	From the moment we are born we start to make sense of the world through inquiry. Babies explore things by touching, listening, and tasting. As they get older they are able to make sense of things by asking questions. Piaget, a constructivist, believed that making meaning of things through personal or societal interactions is how children learn best. This is how the research problem for this study came about. This research took place at a local elementary school with a mixture of boys and girls, SES, and ethnic groups.	Early Childhood & Elementary Education	Dr. Craig Wilson

POSTER SESSION A (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
28	Devin Cetnar	Searching in the Dark: Defeating Writing Anxiety in the College Classroom	One of the most common issues college students face is the level of stress school workloads onto their already busy lives. Writing anxieties, in particular, are the most frequently found. Where do they surface from? Why do our students struggle with these anxieties, and how can we help them conquer them? My research will offer results based on primary and secondary studies including interviews, surveys, and case studies. I will find that many students suffer from the pressure of writing, and there are several strategies teachers can use to help struggling students overcome their fears.	English	Dr. Sandra Eckard

POSTER SESSION B, 11 A.M.–12:30 P.M.

Location	Presenter(s)	Title	Abstract	Department	Adviser
ADT1	Emma McDonough	The 39 Steps Scenic Design	A glimpse into the process of designing and drafting a theatrical production from research to performance. This presentation will follow my work through the early stages of research and scene breakdowns, to the design stages and the set's evolution, and finally to CAD drafting and the actual construction of the theatrical set.	Theatre	Prof. Yoshinori Tanokura
1	Jasinee S. Johnson	Why is This Still a Story? A Content Analysis of Roman Catholic Churches Websites in Massachusetts for Priest Molestation Warning Information	The molestation by Catholic priests is not a new issue, but it was brought to public attention again by the 2015 movie Spotlight – the story of how the Boston Globe uncovered abuse scandals by over 100 priests in the Boston diocese. Although previous studies examined the nature and extent of the sexual abuse of minors by Catholic priests, the study described here a content analysis of a random sample of Catholic church websites in Massachusetts to examine how (or if) churches are informing their communities of potential risks or providing information that would enable the reporting of violations.	Communication	Dr. Patricia Kennedy

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
2	Adriana Torres	Has Glamour Magazine become more diverse since 2009 to 2013?	Abstract for Glamour Project This pilot study is an expansion of previous research on identify construction based on visual portrayals of women in ethnic magazines. This content analysis examined whether a limited sample of Glamour magazine issues published between 2009 and 2013 became more inclusive as social expectations of "normality" have become more expansive and diverse. This study used Mayorga's (2007) coding scale of race as a basis for skin color data. The results indicate that Glamour Magazine has not become more diverse as time has progressed.	Communication	Dr. Patricia Kennedy
3	Madison Gorman	Rolling Through the Stone's Covers: A Content Analysis Looking At... Have These Issues Gotten More Diverse Over this Past Decade (2000-2010)?	This qualitative content analysis of Rolling Stone covers from 2000 to 2010, examines changes in the magazine's famous image throughout time. Journalists have argued Rolling Stone magazine's coverage had noticeably changed since its debut, but often failed to support these claims with concrete evidence. A census of all magazine covers from 2000-2010 considered the occupation, gender, race, and portrayal of cover artists to verify how the diversity of cover subjects has developed since 2000. It was ultimately concluded that Rolling Stone magazine covers have changed with the times and gotten progressively more diverse.	Communication	Dr. Patricia Kennedy
4	Natasha Punch	White men can't jump, but that doesn't stop them from winning at the Oscars! An analysis of best picture protagonist, 2012-2016.	As a young woman with career aspirations to be a wardrobe consultant for film, I decided to explore the basis for recent controversies over the gender and ethnicity of protagonists in Oscar-nominated films. The study described here is a content analysis of the top five films from 2011-2015. The results confirm a lack of diverse representation of protagonists in film during the period studied.	Communication	Dr. Patricia Kennedy
5	Jennifer Wolverton	Rhetoric: Aristotle vs. Cicero	This paper is designed to answer two of the following questions as well as defining certain points that Aristotle and Cicero have made in the world of Rhetoric. 1) What are the key differences between Aristotle's views on Rhetoric vs. Cicero's? Do you think the two differences between their uses of Rhetoric could be applied to anything specific today? 2) Why is Rhetoric so popular in religion? What is a more modern concept that can used to describe Rhetoric? These questions will be answered with textbook definitions as well as interpretations of the theories from a more modern approach.	Communication	Dr. Cem Zeytinoglu

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
6	Vincent Gervasi	Perspectives on Television Production as a Catalyst for Success	Participation in a television studio production teaches its participants many valuable life skills, such as time management, organization, and teamwork. Students from various media production programs throughout Pennsylvania shared their personal findings through multiple means of interviewing and qualitative data gathering. The interviewing process follows Auer's (1959) techniques for descriptive research as well as the development of an online questionnaire. The project is still underway; what is being presented is a summation of the data gathered thus far.	Communication	Prof. Julian Costa
7	Natalie Keller	Two Similar Ancients With One Big Difference	This project originated from Dr. Zeytinoglu's Rhetorical Perspectives course. Two Similar Ancients With One Big Difference is an argumentative paper that presents information regarding ancients, Cicero and Aristotle, on their similarities, but more importantly, what they differ on. Communication, in rhetoric's sense, is essentially the backbone to which Aristotle and Cicero established their methods on rhetoric teachings. But when it comes to their views on teaching effective delivery, Cicero argues that it can be taught while Aristotle believes it is unworthy of discussion. It is intriguing that these two have such strong differing beliefs in regards to effective delivery.	Communication	Dr. Cem Zeytinoglu
8	Nicholas Russo	How the "Funnies" became a Media Juggernaut: A Study looking to Explain how Comic Books entered Pop Culture	This is a mixed methods pilot study focused on four comics, one from each of the four stylistic eras of comic history – the Golden Age, Silver Age, Bronze Age, and the Modern Era. The results indicate the strong impact on and interaction of comic book style, comic book popularity and the popularity of films based on comic book storyline and heroes.	Communication	Dr. Patricia Kennedy
9	Nicholas Russo	Title: Did Fawcett Publications' Captain Marvel comics "steal" National Comics' Superman?: An in-depth examination of a landmark copyright case.	Return with this researcher to the 1940s-1950s. Sales of superhero comics are booming, with every publication company wanting to join in on the action. This study reports on the case of National Comics Vs. Fawcett Publications (1951), one of the longest litigations in copyright history. Fawcett Publications was sued by National Comics. The allegation was that Fawcett's character Captain Marvel was a direct copy of Superman. Fawcett lost. The outcome of this case helped determine when "creating" a superhero would represent illegal copyright infringement, also setting the principles for legal action having to do with comics and their franchises.	Communication	Dr. Patricia Kennedy

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
10	Frankie A. Barrett	Aristotle and Plato: Their Views on Rhetoric in Poetry	This analysis examines the viewpoints of Plato and Aristotle regarding the use of poetry and rhetoric within the political and societal institutions of ancient Greece. Plato and Aristotle, two prominent philosophical figures knowledgeable about rhetoric and the use of poetry, propose diverging, provocative analytical assumptions regarding the application of both subjects within communication. The juxtaposition of these ancient, historical figures' beliefs will illuminate the disparities and similarities between their propositions, extricating and uncovering the role of truth, knowledge, and imitation in poetry and public discourse. Their interpretations of these art forms are prevalent in rhetorical studies in today's culture.	Communication	Dr. Cem Zeytinoglu
11	Amber Jodus	The Art of Losing	I analyzed 7 professional tennis players in post-loss interviews (2 for each player). I looked at what they were saying and how they said it to identify their personalities by seeing their coping mechanisms after unsuccessful match play. By keeping track of the amount of the number of gestures made and what/ whom they blamed for the loss, I was able to better understand the people that dominate the professional tennis world.	Communication	Dr. Patricia Kennedy
12	Kelley Anne Stuetz	An Autoethnography: How Does Expectancy Violations Theory Influence People's Responses to Grief and How to Improve Grief Communication	Grief is a sensitive topic for the majority of our world. Communication expectancies vary when discussing grief and loss. Coping the loss of a loved one develops a new way of thinking, learning and living. Research developed ideas when EVT crosses the line when discussing grief and bereavement. This research uses EVT as a framework to develop better communication skills when discussing grief and bereavement. Combining my own personal experience, theory research methods and communication analysis, this is an autoethnography of my own bereavement process and grief communication.	Communication	Dr. Andrea McClanahan
14	Joshua Weidenbaum	39 Steps Sound Design	This is a visual (and possibly interactive) presentation of the research and composition for the sound design of the theatre department's previous show, "The 39 Steps". The poster will include explanations of the design for various scenes as well as an exposition of the original music created for the show.	Theatre	Prof. Stephanie French

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
15	Sophia Grace Thompson	Mastering the Art of Disguise Through Dialects	The purpose of this presentation is to highlight the variety of dialects and accents used in the Theatre Department's production of The 39 Steps, adapted by Patrick Barlow and directed by Stephanie Daventry French. Throughout the rehearsal process, the four actors were introduced to the International Phonetic Alphabet which had provided the phonetic foundations of Received Pronunciation English, Cockney, and Scottish dialects in addition to the German accent. Each dialect or accent was used by the four actors to differentiate numerous characters throughout the duration of the play.	Theatre	Dr. Margaret Ball, Prof. Stephanie Daventry French
16	Tanieka Mason, BS	Patient Factors Related to Seeking Primary Care Services versus Emergent/ Urgent Visits within an Emergency Room of a Rural Pennsylvania Medical Center	This study sought to ascertain significant factors of patients in the emergency department (ED) among all levels of severity and to determine the utilization of primary care providers (PCP) as a health care resource. By sample of convenience, 200 patients were interviewed including questions about their PCP usage. The results of this study characterizes patient ED utilization and will help determine any need for intervention to improve or maintain proper utilization of health care resources.	Public Health	Dr. Steven Shive
17	Ronya Nassar	Million clicks for Million Hearts: analysis of a population-based walking program in Allentown, Pennsylvania	Million Clicks for Million Hearts, part of a nationally funded CDC and Department of HHS program, is a competitive walking campaign to achieve one million clicks. This study explores the promotion of physical activity through messaging, incentives, and program participation within a diverse city heavily populated by lower income minorities at risk of insufficient physical activity (PA). Utilization of urban and park trails for PA was objectively recorded by "JobClocks" reading program-issued keytabs at multiple program locations in Allentown. PA changes and trail utilization was assessed. Results show that walking frequency was similar among all demographics that were studied.	Public Health	Dr. Clare Lenhart
18	Nora Famularo, Hope Decker	Group Therapy and Eating Disorders	Eating disorders affect many adolescent and young adults' lives. Both male and females suffer from eating disorders such as Bulimia Nervosa, Anorexia Nervosa as well as Binge-eating Disorder. The main objective of our proposed study is that group therapy is just as effective, or more effective than individual therapy alone. Group therapy is known to be more cost-effective than individual therapy, but we want to find out if group therapy reduces patient's relapses into their eating disorders.	Sociology	Dr. Hooshang Pazaki

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
19	Kennedy Sheeley	Max Weber and the Dakota Access Pipeline	The purpose of this paper was to assess how social theorist Max Weber would view the contemporary issue of the Dakota Access Pipeline and the social reactions surrounding it. The concepts that Max Weber would use to address this issue are the ideal types of authority, legitimacy and power, and rationality. This paper will explore how Max Weber would theorize these concepts in regards to the controversies surrounding the pipeline.	Sociology	Dr. Marianne Cutler
20	Anissa Rago	The Feminization of Psychotherapy	As popular culture are the biggest influences affecting generational differences. Previous research indicates that younger generations often want to break away from traditional life styles. However, communication between generations has not been clearly studied in this context. For the current study, we asked participants to answer questions regarding perceptions of hypothetical conversation partners. We predict that conversational dominance, interest, and perceptions of the partner's success and intelligence will differ depending on age and gender of participants, and age and gender of partner.	Sociology	Dr. Marianne Cutler
21	Ariel Tucci	Generational Gender Differences Regarding Communication	Many people experience a clash between their generation and the previous generation. Culture of country as well as popular culture are the biggest influences affecting generational differences. Previous research indicates that younger generations often want to break away from traditional life styles. However, communication between generations has not been clearly studied in this context. For the current study, we asked participants to answer questions regarding perceptions of hypothetical conversation partners. We predict that conversational dominance, interest, and perceptions of the partner's success and intelligence will differ depending on age and gender of participants, and age and gender of partner.	Psychology	Dr. Renee Boburka

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
22	Brandon Swayser	Monitoring Habitat Use of Hooded Warblers (<i>Setophaga citrina</i>) in the Delaware Water Gap National Recreation Area	Previous studies showed that Hooded Warblers (<i>Setophaga citrina</i>) in the Delaware Water Gap National Recreation Area occurred more frequently in understory habitat containing exotic invasive Japanese Barberry (<i>Berberis thunbergii</i>) compared to native-dominated understory. My thesis project, initiated in spring of 2016, is designed to supplement this previous research by determining if habitat affinity and reproductive fitness are also higher in barberry-containing understory. Hooded warblers are observed, captured, aged, banded, and released in three understory types including native-dominated, barberry-dominated, and mixed types for comparison. Vegetation analysis will provide metrics to compare vegetation composition and structure between the three understory types.	Biological Sciences	Dr. Terry Master
23	Jessica Burns	Species differences in bat emergence and foraging times in northeastern Pennsylvania	Different species of bats feed on different insects and forage at different times. We used acoustic data to compare foraging times for 5 local species of bats. Echolocation calls were recorded with an AR125 detector and identified to species using SonoBat 3. We restricted our analyses to recordings made in early summer to exclude migrating bats. We compared the timing of bat activity to assess differences in activity patterns between species. We used a Kruskal-Wallis test to compare activity between species within a 3-hour period. We found highly significant differences ($p < 0.001$) in activity times between species.	Biological Sciences	Dr. Howard Whidden
24	Kathleen Kraemer	Media Portrayal of Women in Politics	Though we have made significant progress over the years, the 2016 election has proven that women still have plenty of work ahead in our efforts to break the glass ceiling of politics. One of the largest obstacles faced by female politicians is how the media portrays them to the public. Is the media standing in the way of women moving forward in their political careers? What can be done to level the playing field?	Sociology	Dr. Marianne Cutler
25	Jacquelyn Mross	Minority Women and Health Disadvantages	African American women have the biggest disadvantages when it comes to health care. Doctors think they will abuse the drugs prescribed to them, they are looked at as undesirable by insurance companies, and they are reluctant to seek help. There is little they can do to help themselves since the people licensed to help them refuse to do so based on prejudicial judgements. Past views have been carried over into modern medical practice, and this has a tremendous negative impact on minority women.	Sociology	Dr. Marianne Cutler

POSTER SESSION B (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
26	Abigail Hawk	Women and the Adult Film Industry	This work is a proposal to conduct more research on women and the adult film industry. Through my search to find female perspectives on what it is like to work in the adult film industry, I found minimal information. Since the majority of porn actors are female, I found the lack of information on their perspective unusual. I did however find and will present information on the two different views that feminists have about pornography, as well as the slowly growing involvement of women behind the camera in the industry.	Sociology	Dr. Marianne Cutler
27	Erin Evans	Menstruation as a social taboo	Despite the fact that menstruation is a reality for nearly every woman on Earth, it is something that is socially taboo. Society refuses to acknowledge that menstruation is actually an incredibly important part of humanity. Instead, menstruation is riddled with double standards, and young people are denied proper education regarding the subject.	Sociology	Dr. Marianne Cutler
28	Patrice Penrose	An Analysis of the Attitudes and Beliefs Healthcare Providers Have Regarding Adverse Childhood Experiences and How These Relate to Their Screening Behavior	The health effects of adverse childhood experiences can be severe, impacting both the physiological side of health as well as the psychological and emotional components. The pathway for the development of these health issues is complex but interruption of it can lead to the mitigation of health problems. The medical community can be used as a first step in that process. This research study used the Health Belief Model to examine what attitudes and beliefs healthcare providers had towards screening for adverse childhood experiences. Further, this was compared to the actual screening by the providers as well any subsequent action.	Public Health	Dr. Kimberly Razzano

POSTER SESSION C, 1–2:30 P.M.

Location	Presenter(s)	Title	Abstract	Department	Adviser
ADT1	Shannon Boyle, Ryleigh Blakley, Cara Cannilla, Shirley Samson	Caring for Patients with Dual Diagnosis	<p>Purpose: To study the perceived differences in quality of care between both patients' opinion of their experience and nurses' opinions of the care they provide in their domain.</p> <p>Design: Qualitative</p> <p>Setting: An inner city hospital, a small community hospital, and a larger research hospital in the USA</p> <p>Sample: 6-9 patients and 6 nurses (12-15 interview)</p> <p>Method: Emergent interview</p> <p>Conclusions: A personalized care plan specific to each patient is imperative to quality patient care. Patients with dual diagnosis do not feel they are respected by the nurses. Many patients with dual diagnosis do not feel their needs are being met.</p>	Nursing	Dr. Mary Tod Gray
1	Emily Luchansky, Janine Giordano, Kelsey Miczak, Rachel Cipriano	The effectiveness of the DASH diet on patients with chronic hypertension	<p>Current heart failure treatment guidelines provide no specific recommendations for dietary guidelines. This quasi-experimental approach addresses the need for dietary intervention to reduce hypertension in adults. The Dietary Approaches to Stop Hypertension (DASH) is a dietary pattern emphasizing fiber, potassium, magnesium, and calcium. A sample of 26 participants received the DASH diet and teaching about hypertension. The other 26 participants followed their everyday diet. The REAP and PIH scales assisted researchers in gaining insight on the knowledge of the participants regarding the dash diet. In conclusion, the DASH diet is an effective way to lower diastolic and systolic blood pressure.</p>	Nursing	Dr. Mary Tod Gray
2	Janet Ro, Alyssa Dennis, Sarah Karl, and Shaun Spina	Does the Use of Complementary Medicine as an Adjunct to Conventional Treatment Improve the Quality of Life of Cancer Patients?	<p>Aim: to identify and describe the effectiveness of non-pharmacological therapy as an adjunct to pharmacological treatment in minimizing psychological distress associated with cancer-related pain.</p> <p>Design: literature review</p> <p>Methods: multiple databases were searched for publications that evaluated the effectiveness of non-pharmacological interventions in addition to pharmacological ones for management of cancer-related pain. Data was extracted from the results of these studies. A hypothetical study will be formed to evaluate the effectiveness of certain non-pharmacological interventions.</p> <p>Results: formation of a hypothetical study that uses 200 patients with cancer pain divided into an intervention or control group using partial randomization.</p>	Nursing	Dr. Mary Tod Gray

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
3	Pamela Batist, Courtney Conway, Jennifer Murphy, Christina Maguire	CHG Bathing and Infection Control	<p>Purpose: To test the effectiveness of Chlorhexidine Gluconate (CHG) baths in reducing the acquisition of infections in patients admitted to the Medical Surgical Units (MSU) and Intensive Care Units (ICU).</p> <p>Design: Quasi-Experimental Research Design, Non-Equivalent Control Group design.</p> <p>Setting: One MSU and one ICU at Pocono Medical Center (PMC). Sample: 400 adult patients in PMC, 200 from each unit.</p> <p>Sample: 400 adult patients in PMC, 200 from each unit.</p> <p>Methods: Patients assigned to the control or experimental group. The control received no CHG bathing, while the experimental did. Questionnaires sent to the patients post-discharge to determine results.</p> <p>Findings: CHG bathing resulted in decreased rates of infection on both units.</p>	Nursing	Dr. Mary Tod Gray
4	Alyssa Barry	Linguistics	<p>I am a Spanish major at ESU and currently taking a linguistics course. This course requires research into a language of specialization. The research is aimed at discovering how the language is similar and different from English. I am structuring my research around the core areas of linguistics: phonetics, phonology, morphology, syntax and lexicon. I am investigating language use in society, and sociocultural variants of language. I'll create a multimedia webpage within the course. For the symposium, I intend to have a laptop displaying the project as well as a poster with relevant printed sheets from the project webpage.</p>	Modern Languages	Dr. Jeffrey Ruth
5	Lian Mlodzienski, Alex Tufano	Mechanism of Herpes Inhibition by Bioven on Vero Cell Culture	<p>One disease-causing virus is herpes. Herpes is caused by the herpes simplex virus and can cause sores around the mouth and genital area and other infections. While Bioven is currently an option used to treat herpes, we are exploring the pathway by which it works. To do this, we are culturing vero cells. We have explored the effect of Bioven on the cells alone and on those infected with herpes. To elucidate a potential pathway, we have used a protease inhibitor to study the effect of the virus' ability to infect healthy cells. This research is currently ongoing/developing.</p>	Biological Sciences	Dr. Joshua Loomis

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
6	Chengez Ali Hussaini	Food for Plants. Savings For Us	For fertilization of plants, farmers and gardeners prefer to use chemicals such as phosphorus and nitrogen for improving the growth of roots and tissue development, respectively. Chemicals can help stimulate plants to reproduce but are expensive and time-consuming. When it comes to overripe fruits and vegetables we often tend to send them to the waste basket. Old and expired produce (meats as well) can be composted into fertilizers for plants. E.g. excess blood from meat of herbivorous animals like cows and goats can be poured into plant soil as a fertilizer. Composting can help save and reduce waste.	Biological Sciences	Dr. Joshua Loomis
11	Samantha Pelletier	Analysis of Tick-Borne Pathogens in Pennsylvania American Black Bears (<i>Ursus Americanus</i>)	An increase has been seen in the prevalence of tick-borne diseases, such as <i>Bartonella</i> spp., <i>Babesia</i> spp. and <i>Anaplasma phagocytophilum</i> in the United States in human and wildlife populations. In this study, American black bear (<i>Ursus americanus</i>) blood samples were tested for tick-borne pathogens transmitted by blacklegged ticks (<i>Ixodes scapularis</i>) through PCR analysis. Results indicated that 30% (n=6/20) of the black bears tested positive for <i>Bartonella</i> spp., 15% (n=3/20) tested positive for <i>Anaplasma phagocytophilum</i> and 5% (n=1/20) tested positive for <i>Babesia</i> spp. This study helps to document the growing prevalence of <i>Bartonella</i> spp. in black bears.	Biological Sciences	Dr. Abdalla Aldras
12	Kristina Roy	Development of an All Natural Repellent against Common Tick Species in the United States	Ticks are ectoparasites, which survive by feeding on blood of various hosts. Ticks are associated with the transmission of bacterial, protozoan and viral infections. The most common tickborne disease in the United States is Lyme disease, which is transmitted by the blacklegged tick, <i>Ixodes scapularis</i> . The objective of this research is to develop an all-natural tick repellent, using essential oils derived from plants, to effectively repel the most common species of ticks found in the U.S.	Biological Sciences	Dr. Joshua Loomis, Ms. Nicole Chinnici
13	Taina Moore, Thomas Stocker, Melissa Vicenty	ESU Dept. of Modern Languages Students in Cuba, May 2017: Research Works in Progress	Taina Moore's research focuses on public healthcare and policy, as Cuba facilitates these rights through a nationalized system. Thomas Stocker's research focuses on the 1959 Cuban Revolution; although often seen as socialist, its causes stem all the way back to the convictions of intellectual and military leader José Martí. Melissa Vicenty's research focuses on Fidel Castro's utilitarianism foundation and intellectual formation reflected in his way of governing. Reforms within the government will be analyzed against an ethical business model.	Modern Languages	Dr. Susana Maiztegui, Dr. Annie Mendoza

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
14	Kenneth Rankin, Mariah Reed, Nora Wade	Application of Sport Management Curriculum	This presentation examines the application of course material for SMGT 445; Organization and Administration of Sport Operations. Students are given an opportunity to apply program curriculum into a practical workplace experience. Through the Eastern Fall Sectional for Special Olympics Pennsylvania and National Recreational Sports & Fitness Day students demonstrate their ability to comprehend Sport Management principles. Key concepts include but not limited to leadership, facility management, organizational structure, and control systems. We consider this class to be the capstone for the Sport Management program as it continues to build upon our industry knowledge and experience.	Sport Management	Prof. Edward Arner
15	Branden Green, Wendy Dietrich, Jane McDevitt	Concussion Specific Patient Reported Outcome Measure Aims to Make Impact on Patient Care	The aim of this project was to provide reliability data for a novel concussion specific patient reported outcome measure (CS-PROM). Fourteen concussed collegiate athletes were prospectively followed, and completed the CS-PROM and Hospital Anxiety and Depression Scale (HADS) at three time points. A significant correlation was found between the two scales at the acute stage of injury ($p=.000$; $r=.814$), demonstrating concurrent validity; thus the CS-PROM appears to be an effective tool to measure recovery following a concussion. This measure aims to improve patient care by assessing emotional symptoms, and improving patient-clinician communication during the recovery process.	Athletic Training	Dr. Jane McDevitt
16	Stephanie LoSchiavo, Christopher Lee	Reliability of Assessing Range of Motion and Pain Pressure Threshold in Healthy Subjects	The purpose of this study was to determine the intra-rater and inter-rater reliability between experienced Certified Athletic Trainers and Pre-Professional Athletic Training Students, when assessing joint range of motion (ROM) and Pain Pressure Threshold (PPT). These measurements were obtained on healthy subjects using an iPhone inclinometer application to measure ROM for ankle dorsiflexion, and a handheld digital algometer to measure PPT of the gastrocnemius muscle. As with any device, the skill of the assessor can affect reliability. It was discovered that novice clinicians require more practice with these devices prior to data collection, and clinical evaluation.	Athletic Training	Dr. Kelly Harrison

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
17	Dr. Richard A. Ruck Jr.	A Descriptive Study of Law Enforcement Arrest Decisions, Administrative Actions, and Their Impact on Students' Exclusionary Outcomes in the Secondary School Environment	Public reaction after violent incidents in schools have led policymakers and school officials to institute security measures including zero tolerance policies and police officers. Researchers reported an increase in student arrest rates and exclusionary discipline rates for minor offenses after implementing these initiatives. This study focused on student arrest rates and exclusionary discipline measures in two high schools among School Resource Officers (SRO)/School Based Police Officers (SBPO) and secondary administrators over two school years. Furthermore, the study examined the factors influencing arrest decisions of the School Resource Officers/School Based Police Officers involved.	Professional & Secondary Education	Dr. Doug Lare
18	Michelle Coughlin	The Perceptions of Infidelity and Social Media in College Students	Infidelity is a provocative issue that affects the lives of individuals. These perceptions often vary upon the individual. Commonly, individuals most likely to be affected by infidelity are college students. Through the widespread of technology, there is a greater chance of infidelity occurring within their relationships. Therefore, the goal of this research is to identify student's perceptions of infidelity and the effect of social media. To test this method, participants will be exposed to presentations of online and offline infidelity. Participant's responses will be measured using a self-report survey. The anticipated results will reveal a negative perception towards online infidelity	Psychology	Dr. Irina Khusid
19	Richard Letts	Active Desensitization to Violent and Sexual Media	Both sexual and violent media have been shown to lead to psychological desensitization, and this effect typically intensifies as the amount of viewing increases. However, the comparison of desensitization between sexual and violent media has not been clearly studied. The purpose of the current research will be to investigate which type of media leads to greater desensitization. My proposed method will have participants viewing clips portraying different types of media. Their level of desensitization will then be assessed using a self-report survey. I expect to find that sexual media will lead to slightly greater desensitization, relative to violent media.	Psychology	Dr. Renee Boburka

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
20	Sarah Myles, Mary Wallick, Cody Wolf	An Examination of Supplements Use in College Aged Recreationally Active Individuals	The variety of supplements being created, produced, and consumed continues to grow as education also continues to develop. The most prevalent supplements college aged, males and females ingest are vitamins, amino acids, protein powders, herbs, and carbohydrates. The reasons for consumption are individualized. It is hypothesized that the results of this survey will suggest that males consume protein/creatine more often and females often consume more vitamins and minerals. Therefore, the aim of this study is to investigate the type and frequency of supplements being consumed in recreationally active individuals.	Exercise Science	Dr. Emily Sauers
21	Kelsey Heston, Amber Mross, Delanie Shea	Basic Nutritional Knowledge Amongst College Aged Population	Proper nutrition can be often overlooked, specifically when it is in regards to sport and exercise. A national survey of 10 questions from 2012 discovered a large number of Americans lack basic nutritional knowledge (Physicians Committee, 2012). According to the survey, Americans lack basic nutritional knowledge, however, it is uncertain if differences in healthy populations exist. The purpose of this study is to analyze the general nutritional knowledge of three different populations: sedentary college student, recreationally active college student, and collegiate Athlete.	Exercise Science	Dr. Emily Sauers
22	Payton McCord, Monica Naxera, Alex Spinoccia, Lee Wolbach	Do students in fraternities consume more alcohol than non-fraternity students?	As a whole, college students tend to drink more frequently and consume more alcohol per drinking session than any other population in the United States. Of these students, the most frequent and most problematic drinking is done by fraternity members. This is the case even though many fraternity executives issue strict policies regarding risk management and responsibility (Faulkner et al. 1989). The purpose of the current study was to determine if male college students in a Greek organization have a higher propensity to consume alcohol than male college students not affiliated with a Greek organization.	Exercise Science	Dr. Emily Sauers
23	Aisling Kerr	Samson	"Samson" is a children's book about a polar bear that goes looking for his scarf and comes across two bears that are losing their homes due to deforestation. This book was collaboration between the English and Art + Design departments. Through independent studies, Samson will be completed with unique illustrations that highlight the skills and style of those who took part in this project.	Art & Design	David Mazure

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
24	Abigail Hawk, Jessica Hetrick, Reghan Weller, Amanda Weise, Jenna Bretz, Tiffany Bower, Paige Stuart, Kylie Tausendfreundt, Mario D'Aniello, Theresa Gehring, Quadira Gregg, Morgan Wise, Yesenia Torres, Abby Weatherill	Experiential Learning in Ireland: Comparative Criminal Justice and Societies	This poster presentation highlights a recent experiential learning trip abroad to Ireland attended by 14 students and 2 faculty as part of the course: Comparative Criminal Justice and Societies. The presentation will illustrate the various geographic and cultural experiences of the students while abroad, emphasizing the various aspects of Irish culture, criminal justice and social work systems as they compare to the United States.	Criminal Justice	Dr. Carrie Maloney
25	John D. Snyder	Evaluation of NCAA Division II Female Collegiate Swimmers and the Two Load Force, Velocity and Power Profile	In order to better understand and evaluate the needs analysis of the competitive swimmer this study will aim to measure the force-velocity and power-velocity profiles gathered from a series of four exercises in order to determine their relationship to the best times recorded during the 2016-2017 competitive swimming season. Sixteen experienced NCAA Division II collegiate female swimmers have volunteered to participate in this study. Subjects were assigned in an analytical observation study evaluating the force production and power displayed among four exercises; the power clean-high pull, lat pulldown, single arm med ball throw and squat.	Exercise Science	Dr. Emily Sauers
26	Destany LaBar, Shannon Condello, Abigail Kaspszyk, Raquel Sosa, Adannia Ufodu	Validating a Measure: Financial Literacy	We proposed students with a negative attitudes or insufficient information about financial aid are less likely to stay in college until the completion of their degrees. To test this, we must create and validate a measure assessing financial aid attitudes and literacy. Following a revision of a previously administered measure, college students were given a measure that evaluated their knowledge seeking behavior, financial emotionality, and future about financial aid. Findings will be discussed.	Psychology	Dr. Bonnie Green
27	Samantha Reilly, Toni-Ann McElean, Ariel Tucci, Keith Young-Smith	Implicit Attitudes Regarding The 2016 Presidential Election	Implicit attitudes have been determined to predict intentions of decided and undecided voters (Roccoato & Zogmaister, 2010). Challenges arise in measuring such attitudes. In creating a new measure, we hypothesize that implicit attitudes can be gleaned from word count, statement complexity, and response latency. Using the 2016 Presidential Election, we provided students with questions on the two main presidential candidates. Results from this study and implications regarding measuring implicit attitudes will be determined.	Psychology	Dr. Bonnie Green

POSTER SESSION C (CONTINUED)

Location	Presenter(s)	Title	Abstract	Department	Adviser
28	Eric Cahill, Zachary Kager, Ashley McCauley, Courtney Moatz, Alyssa Saggio	How does alcohol affect exercise habits in college students	Alcohol's detrimental effects on the body are widely known and universally accepted. In a study done at California State University, they conducted a survey regarding dietary and exercise habits. They concluded from this survey that 84% of participants stated they currently exercised but 42% stated they exercised less since attending college. The object of this study is to measure alcohol usage at East Stroudsburg University in total consumption, frequency of drinking bouts, and type of alcohol consumed in conjunction with recreational exercise habits.	Exercise Science	Dr. Emily Sauers

SPECIAL PRESENTATION, 11 A.M.–12:30 P.M.

Location	Presenter(s)	Title	Abstract	Department	Adviser
1st Floor Lounge Area	Joshua Brewster, Brandon Hildago, Arie Miller, Alexander White, Matthew Szczeblewski, Joseph Ross	Student Computer Game Demonstration	Students will demonstrate 2D and 3D games that were submitted as projects for the Computer Game Development course (CPSC 442). All games presented were developed with using Unity game engine.	Computer Science	Dr. Robert Marmelstein

SIGMA XI FORUM, 1-4 P.M., ROOM 117

Sequence	Presenter(s)	Title	Abstract	Department	Adviser
1	Bose Omo-Ekpad	A Two-Phase Symmetric Key Cryptographic Algorithm	Cryptography derives from the Greek word kryptos, meaning "hidden". It is the science of encrypting and decrypting data. In Symmetric Key Cryptography, a single key is utilized for encryption and decryption. We propose a Two-Phase Symmetric Key Cryptographic Algorithm. Phase one comprises of a block cipher that encompasses a large character set, encrypts the entire plaintext once and produces a ciphertext that contains a quotient and a remainder. Phase Two is a Permutation cipher that employs the Double Transposition Algorithm to transform the quotient and remainder to form the Ciphertext. The decryption process is the reverse of the encryption process.	Computer Science	Dr. Eun-Joo Lee
2	Joshua Soberg	Military Scouting Methods Applied to Real Time Strategy Game Simulations	Real-time strategy (RTS) games provide a means of simulating conflict, particularly the interactions between multiple entities (both real and artificial) within a complex environment. The combination of large parameter sets to define entity behavior and random variables ensures a very large search space of possible interactions and outcomes. I will present a reporting method that analyses fairly gathered lethality information for both friendly and enemy game units, providing a real-time model to conduct realistic and effective military maneuvers. Culminating from this work is an adaptive Artificial Intelligence which applies these reporting concepts, developed within the OpenRA RTS game environment.	Computer Science	Dr. Robert Marmelstein
3	Eric Januszkiewicz	Development of an Extensive Genetic Database for Canids	Genetic databases are useful tools for population studies, sample identification, and forensics. A canid multiplex containing seventeen microsatellites was used to genotype sixty-six wolves from the Michigan Upper Peninsula. A mean of 9.4 alleles per locus was observed and the PIC value of 0.73 indicates the multiplex is useful for population studies. Using this approach, a broader database will be created using samples from purebred dogs which will then be used to assign different dog breeds to population clusters. The database will also serve as a useful forensic tool involving canines where evidence is matched to an individual or breed.	Biological Sciences	Ms. Nicole Chinnici

SIGMA XI FORUM (CONTINUED)

Sequence	Presenter(s)	Title	Abstract	Department	Adviser
4	Andrew Bischer	The effects of artificial sweeteners and probiotics on the gut microbiome and immune system of mice	The important role the microbiome plays in mammals is something that has been a key area of research in recent years. The microbiome plays an important role in both immune system development and health. Alterations to the composition of the microbiome have been found to be associated with diseases such as type 2 diabetes, obesity, Parkinson's, and irritable bowel syndrome. The effects of artificial sweeteners such as saccharin, sucralose, and aspartame on the microbiome have been an increasing area of research recently as their popularity continues to increase. As probiotics have become more popular as well, how they interact with the normal flora of the microbiome is also a focus of recent research. In this experiment, the three artificial sweeteners as well as a probiotic were fed to groups of mice. The large intestine contents were swabbed and cultured anaerobically to determine the effects on the gut microbiome diversity. Using ELISA on blood samples and tissue samples, cytokine and IgA levels were also studied and compared. The cytokines tested include tumor necrosis factor alpha, interleukin-2, and interferon gamma. The results indicate both sucralose and probiotics cause significant decreases in IgA levels in blood serum. Probiotics also caused a significant decrease in secretory IgA in the lumen of the small intestine. Sucralose was found to cause a significant increase in IFN- γ in the Peyer's patches.	Biological Sciences	Dr. Abdalla Aldras
5	Vanessa Gomez*, Kristine Bentkowski, and Nicole Chinnici	High Prevalence of Bartonella Spp. Found in Pennsylvania Black Bears	Over the last decade tick-borne diseases have been increasing in the United States among human and wildlife populations. Confirmed cases of other tick-borne diseases have been noted along the northeast coast of the United States. Tick-borne diseases such as Babesia spp., Bartonella spp., and Anaplasma phagocytophilum are becoming more prevalent. In this study American black bears (<i>Ursus americanus</i>) were tested for tickborne pathogens transmitted by black legged ticks (<i>Ixodes scapularis</i>). Black bear samples were tested for the prevalence of Babesia spp., Bartonella spp., and A. phagocytophilum through PCR analysis. Results indicated that 69.3% (n=70/101) of bears tested were positive for Bartonella spp., and 1.99% (n=2/101) were positive for A. phagocytophilum, and 0.00% were positive for Babesia spp. No co-infections were detected amongst the black bear samples. This study is the first to document a high prevalence of Bartonella spp. in Pennsylvania black bear populations.	Biological Sciences	Ms. Nicole Chinnici

SIGMA XI FORUM (CONTINUED)

Sequence	Presenter(s)	Title	Abstract	Department	Adviser
6	Toni-Ann McElean, Ariel Tucci, Keith Young-Smith, Samantha Reilly, Peyton Robicheau	Implicit Attitudes Regarding the 2016 Presidential Election	<p>Galdi, Arcuri, and Gawronski (2008) proposed the key to predicting undecided voter's behavior lies within the distinction between explicit attitudes and implicit attitudes. One study by Arcuri et al. examined the implicit attitudes of Italians during the 2001 Italian general election. Arcuri and colleagues found that by studying implicit attitudes they were able to predict the intentions of both decided and undecided voters. The findings of this study suggest that measuring implicit attitudes among voters should be useful in predicting the behavior of undecided voters even though they are unaware of who they will be casting their vote for. One challenge facing pollsters as they attempt to predict the intention of votes is social desirability. Social desirability is a term that describes response bias, it occurs when those who are surveyed answer in a manner that would ultimately be more favorable to others. "Paulhus" split socially desirable responding into a dimension of self-deception, leading the respondent to see themselves in a favorable light or resort to impression management distorting their self-presentation. Impression management refers to the change in a candidate's personality trait in situations where it is strongly motivated to give a socially desirable answer" (Dodaj, 2012). Thus, the purpose of Study 1 is to detect if there was a socially desirable response between Hillary Clinton and Donald Trump.</p> <p>Methods Study 1</p> <p>Participants: Recruited from college classes, 49 students participated for extra credit.</p> <p>Procedure: Participants were given a survey with the following items.</p> <ol style="list-style-type: none"> 1. If the election was to be held today, who would you vote for? Donald Trump, Hillary Clinton, or Neither. 2. (following a definition of socially desirable) Is there a more socially desirable person to vote for? Why? 3. Who is the more socially acceptable presidential candidate? Donald Trump, Hillary Clinton, I do not plan to vote. <p>Discussion Study 1</p> <p>We were able to demonstrate that there was a significant socially desirable response between Hillary and Donald. As such, this could provide an indication as to why the pollsters were so wrong. Moreover, it provides justification as to why we should attempt to create a different way of measuring people's attitudes for use in situations similar to this.</p> <p>Methods Study 2</p> <p>Participants: Seventeen college students recruited to participate in this pilot study, completed the testing. The participants were male and female; ages ranged from eighteen to roughly twenty-eight. Four participants were excluded for stating they were voting for neither Clinton nor Trump. Six individuals were excluded for either speaking softly so the microphone didn't pick up their comments or for saying little to nothing. This left seven participants (one voting for Trump and six voting for Clinton).</p> <p>Procedure: Students were asked four questions through software created for this study. The software recorded the participant's verbal responses, transcribing it into text.</p> <p>The participants were told to answer the following questions as if it were a sales pitch. "If you had to convince someone to vote for Donald Trump, what would you say?" "If you had to convince someone to vote for Hillary Clinton, what would you say?" "If you had to convince someone to not vote for Donald Trump, what would you say?" "If you had to convince someone to not vote for Hillary Clinton, what would say?" Data were collected for how many words they spoke, how complex their utterances were (using a readability analysis of their encoded spoken words), and the amount of time it took for them to start speaking once they heard the question (response latency).</p> <p>Results</p> <p>t response (7) = -2.07, $p < 0.05$</p> <p>t word count (7) = 2.01, $p < 0.05$</p> <p>t readability (7) = 2.00, $p < 0.05$</p> <p>Discussion</p> <p>The data for this study was collected a few days prior to the 2016 Presidential Election in a state where the polls consistently, and inaccurately predicted a different candidate would win. Our data supported our hypotheses, that there was a socially desirable candidate, possibly increasing the likelihood of someone lying to pollsters. As such, standard survey-type measures may not be the most accurate in predicting how people will vote in Election Day. However, measuring implicit attitudes is still fraught with challenges. Our data support (albeit tenuously) our hypotheses that when people are asked to speak about something that aligns with their thinking and attitudes, they have a tendency to respond quicker to questions, speak more words and in greater detail.</p> <p>However, there was a great deal of variability in this data, and the software and the protocol is not quite ready to be used as a way of measuring implicit attitudes. As a result, we will be making targeting improvements in the near future including rewording directions, questions, and improving software capability. Currently, we are focusing changes on reducing the variability that occurred this study by increasing practice time and easing participants in to the sensitive questions. Additionally, we are planning to not be present when the study is taking place, due to the possibility of social desirability shaping students' responses as they speak out loud. Furthermore, we plan to increase our sample size. Nonetheless, when there is a socially desirable way to respond to a pollster's question, finding more effective ways of capturing implicit attitudes may yield more predictive results of how a person will behave in the voting booth.</p>	Psychology	Dr. Bonnie A Green

SIGMA XI FORUM (CONTINUED)

Sequence	Presenter(s)	Title	Abstract	Department	Adviser
7	Kacie Chern	Local prevalence and strain type diversity of <i>Borrelia burgdorferi</i> in <i>Peromyscus leucopus</i> and <i>Ixodes scapularis</i>	Lyme disease is now the most common vector-borne disease in the United States. Lyme disease victims experience extremely varied severity of symptoms, ranging from barely any symptoms at all to lifelong suffering and neurological damage. The first aim of this investigation is to compare 3 years of prevalence of <i>Borrelia burgdorferi</i> , the etiologic agent of Lyme disease, in <i>Ixodes scapularis</i> (blacklegged ticks), the vector of <i>B. burgdorferi</i> , and <i>Peromyscus leucopus</i> (white-footed mice), the predominant reservoir host of the bacterium in the northeast. The polymerase chain reaction (PCR) was used to compare urinary bladder, spleen, heart, and ear biopsy samples from <i>P. leucopus</i> for the presence of <i>B. burgdorferi</i> . Additionally, it has been established that certain clinical strains in broader genotypic categories are associated with differing symptomatology in humans and in mice. The present study is further investigating these strains seeking to determine whether certain strain types have proclivities for one tissue or another in mice in the environment.	Biological Sciences	Dr. Abdalla Aldras
8	Gianeli Ortiz	Functional Anatomy of the Manus in Rodents	Locomotor habits in mammals are often reflected in bony anatomy. Carpals and metacarpals vary among mammals that practice behaviors such as swimming, digging, climbing, jumping, or gliding. We observed articulations, relative sizes, and shapes of carpals and metacarpals of 64 skeletons of rodents including <i>Microtus</i> , <i>Peromyscus</i> , <i>Rattus</i> , <i>Ondatra</i> , and <i>Myodes</i> . Diggers have short and robust metacarpals, well-developed pisiforms, and extensive contacts between elements, associated with stability. Semi-aquatic rodents have wide carpal regions, but greater articular curvatures, and smaller contacts, associated with flexibility. We also associate many specific features of individual carpals with functional demands on the manus.	Biological Sciences	Dr. Jennifer White
9	Andrew Bischer	The discovery and identification of a novel antibiotic producing bacterium	Actinomycetes are Gram positive filamentous bacteria that are commonly found in soil. They are one of the most prominent antibiotic-producing bacteria in the world and include the genus <i>Streptomyces</i> . As the antibiotic resistance crisis grows and fewer companies are developing new antibiotics, universities must play a more important role in discovering and developing new antibiotics. The CDC estimates that 23,000 Americans die every year due to antibiotic resistant bacterial infections such as MRSA and multi-drug-resistant tuberculosis. In an attempt to identify a novel antibiotic-producing bacterium, soil samples were taken from different ecosystems throughout the eastern United States and screened for antibiotic-producing actinomycetes. One antibiotic-producer was isolated from an underwater sand sample off the coast of Key Largo, Florida. This species was found to inhibit the growth of all Gram positive bacteria that it was tested against, including a clinical strain of MRSA. It also inhibited the growth of <i>Mycobacterium smegmatis</i> . After sequencing the 16S rRNA gene, it was found to be of the genus <i>Microbacterium</i> . This is the only documented instance of a species of <i>Microbacterium</i> secreting an antimicrobial product. Due to the uniqueness of the colony and its antibiotic-secreting ability, we believe that we have a new species of <i>Microbacterium</i> that we have called <i>Microbacterium largo</i> .	Biological Sciences	Dr. Joshua Loomis
10	Myla Keiling	Gross and Histological Study of Stomachs in Small Mammals	Mammals' diets are correlated with gross and microscopic anatomy of their stomachs. Stomachs differ in subdivisions, location and composition of gastric glands. Rodents eat mainly plant material, whereas insectivorans eat mainly animal protein. This study examines fourteen stomachs of rodents (<i>Microtus pennsylvanicus</i> , <i>Myodes gapperi</i> , <i>Synaptomys cooperi</i> , <i>Peromyscus leucopus</i>) and insectivorans (<i>Neurotrichus gibbsii</i> , <i>Blarina brevicauda</i> , <i>Sorex cinereus</i>). In gross dissection, rodents show prominent subdivisions, greater fundic expansion, and glandular pyloric regions while insectivorans exhibit fundic rugae and less obvious subdivisions. Stomachs are also being examined histologically to determine if diet is associated with gastric gland composition in these taxa.	Biological Sciences	Dr. Jennifer White

ORAL PRESENTATIONS, 2–3 P.M.

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
136	2 p.m.	Ryan Clauser	Women in the Air: The WASPs Contribution to Military Aviation in World War Two	In World War Two over 1,000 women served with the Women's Air Force Service Pilots or WASPs. From 1942 to 1944 these women were relied upon to ferry aircraft across the United States for the Army Air Corps but were not officially recognized by the military. Although they lacked recognition the WASPs served with the same dedication, skill, and efficiency as their male counter parts all while facing challenges based on their gender. This work argues that the WASPs were a critical part of the American war effort and chronicles their fight for recognition.	History	Dr. Martin Wilson
138	2 p.m.	Nicholas Spause	The Effects Marijuana has on Athlete's Recovery Time	Drugs in sport, now more than ever, is a topic of conversation almost daily. In that same category, injuries in sport are attracting more attention as well. The thought of any correlation between drugs and injury often goes unnoticed. In this research, a specific drug, marijuana, is being looked at in comparison to athlete's injury. Through many peer review articles and conducting research on record that has not been previously done, the goal is to determine if athletes use marijuana as a recovery agent.	Sport Management	Dr. Minjung Kim
144	2 p.m.	Anthony Caprario	Reforming the Fossil Fuel Industry into a Partner in Addressing Climate Change	This research seeks to explore what steps the fossil fuel industry can take to not only side-step the contemporary debate on climate change, but to take a leading role in addressing it. Using comparative analysis, this paper will explain how global energy markets are imposing a burden on the oil and coal industries regardless of their environmental impact. Based on my preliminary findings, the advancements being made in climate science offer the fossil fuel industry opportunities to resolve the issues facing renewable energy to its own benefit, but only if it is willing to look at the science.	Political Science	Dr. Kimberly S. Adams
145	2 p.m.	Jared Nicholas Putt	Player and coach perceptions of injury rates on artificial turf vs grass playing fields	This research study looks at people's perceptions of grass and artificial turf fields and the risk of injury associated with each surface. The two topics of interest in the study will be, what surface do people believe causes a higher risk of injury? And are there any types of injuries that people think are more prominent on artificial turf? The study will be conducted with the use of surveys where participants will be asked to answer a total of seven questions. The data obtained in this study will add to the limited amount of research done on artificial turf fields.	Sport Management	Dr. Minjung Kim
148	2 p.m.	Klaryssa Kolbeck, Andrew Schumacher, Alyssa Ziner, Alexis Merkle, Shannon Gargan, Lauren Greenfield	The Impact of Emotions on Well-Being	What defines a good day? It could be spending time with loved ones, or just taking time to relax. Now, look at the opposite, what defines a bad day? Receiving bad news, getting into arguments with friends, or just having a bad hair day. No matter what kind of day, we feel different emotions. Going through teenage and college years, self-acceptance can be tough. As we grow, we come across multiple situations involving anger and grief that challenge us to become better people. In the presentation, we will examine research from psychology, philosophy, and sociology on emotions and wellbeing.	Philosophy & Religious Studies	Dr. Tim Connolly
136	2:15 p.m.	Joseph Schell	Building Surveys for Bats in The Delaware Water Gap National Recreation Area	The Delaware Water Gap National Recreation Area includes 70,000 acres along the middle section of the Delaware River in Pennsylvania and New Jersey. Park land includes many historic buildings. Big brown (<i>Eptesicus fuscus</i>) and little brown (<i>Myotis lucifugus</i>) bats commonly roost in buildings over the summer. We conducted both exterior & interior surveys at 26 park buildings for bat use and found evidence of maternity roost use in 6. Additionally, we conducted acoustic emergence counts at 3 roosts. We developed management recommendations for bat roosts in buildings that includes alternative bat roost placement and guidelines for bat exclusion.	Biological Sciences	Dr. Howard Whidden

ORAL PRESENTATIONS, 2–3 P.M. (CONTINUED)

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
138	2:15 p.m.	Macie Blair Hauck	The Psychological Rehabilitation from Sports Injuries	The goal of this research is to explore the process athletic trainers take as first responders and throughout the rehabilitation process to help athletes recover quickly, to expand the knowledge of athletic trainers to incorporate sport psychology techniques, and to understand the perception an athlete has on using sport psychology to enhance their mental state while in the recovery process. There are many emotional responses when a collegiate athlete sustains an injury and is out for a duration that inhibits them to participate in practice and game day events. There are also internal and external factors that will be discussed.	Sport Management	Dr. Minjung Kim
144	2:15 p.m.	Christian Colon	The Presidential Inauguration, Washington D.C., and Experiential Learning	This presentation explores David Kolb's Experiential Learning Theory (ELT) which has been a widely accepted and practiced theory among educators, in supplementing and providing support for classical, and traditional learning styles. The research uses post-survey methods of data collected from students who participated in a Washington D.C. experiential learning program. The expectations for the research and preliminary findings indicate support for David Kolb's theory of Experiential Learning Theory. Such experiences when coupled with classroom learning, seems to provide greater motivation for learning and campus engagement	Political Science	Dr. Kimberly S. Adams
145	2:15 p.m.	Janice Tieperman	The Malleable Magical Girl	"The Malleable Magical Girl" explores the personality traits, cultural and societal expectations, and lasting gender role implications surrounding the five female leads in the original Sailor Moon anime series. Sailor Moon, created by Japanese manga artist Naoko Takeuchi in the early 1990s, has remained a staple in the anime industry over the past two decades for a viewership that continues to expand. Championing a variety of different personality tropes and contrasting ideals of femininity, Sailor Moon functions as a valuable case study of female representation in anime, and the implications of this representation that remain relevant today.	English	Dr. Erica Dymond
148	2:15 p.m.	Kyle Zingales, Nicholas LaTorre, Andrew Morgan	Becoming a great coach: in sports, management, and life	What makes a good coach a great coach? A great coach will help you for the next level, either college or life. In soccer a great coach must be able to evaluate players on the basis of fundamentals in order to get the most out of them. Management skills come from the same roots as coaching, you need to know how to coach a team to smoothly complete a task. In this presentation, we will examine coaching in different domains using the latest research from sports psychology and management theory.	Philosophy & Religious Studies	Dr. Tim Connolly
136	2:30 p.m.	Elaine Letki	Captive of the French and Indian Wars 1676-1763: English Slavery in Canada	This paper explores the controversial subject of the accepted definition of slavery through the lens of the French and Indian wars. A strong argument can be made that as English were captured and taken to Canada, their status transferred to something which in modern terms we deem as "human bondage." With research conducted predominately through primary sources such as journals, letters and museum exhibits, their experiences can be easily compared to documented slavery patterns throughout history. The analysis of the facts confirmed that not only were many sold as slaves; their experience contained almost every known slavery criterion.	History	Dr. Michael P. Gray

ORAL PRESENTATIONS, 2–3 P.M. (CONTINUED)

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
138	2:30 p.m.	Elizabeth R. Malantonio, Ian T. Allen, Allison B. Chatburn, Daniel Jay Germanton Jr, Corinne M. Glassman, Robert T. Matson, Jamie R. Reese, Blake C. Smith, Jennifer Spause, Ryan T. Strekel, Trudy Vandever, Hope Wicks, Amanda Wnorowski	The Socioeconomic Value of Preserving Land in PA	This study compares the socioeconomic value of preserving land and the market price. The model variables include: acreage, land and forest coverage percentages, water recreation, and crop percentages. To determine the value of the land, the user inputs: 1) the percents of forest, crops and pasture, or water; 2) Whether they intend to harvest any timber, if so, how frequently; 3) whether they intend to use water for recreation, if so, what types of recreation; and 4) the types of crops. Using the model, the value of the land, the future value, and the net present value is provided.	Mathematics	Dr. Olivia Carducci
144	2:30 p.m.	Alyson Procopio	Do People in High-risk Occupations Seek High-risk Sports? An Ethnographic Approach to Explaining Participation in Skydiving	High risk in an extreme sport could lead to severe injury or death. High risk in the workplace is job stress occurring with a person's social, psychological, or physical well-being. The three core purposes for relationships in this study. 1. Occupational stress and participation in skydiving. 2. Explore the motivations, behaviors, and experiences of skydivers who work in high-risk occupations. 3. The human's physical responses during high risk occupations and high risk activities. The author, a participant observer, is an active member of the skydiving community. The researcher conducted interviews and observed skydivers' behaviors in a natural environment.	Sport Management	Dr. Minjung Kim
145	2:30 p.m.	Ariel Mickey	The Metaphorical Maiden	The Metaphorical Maiden explores Yana Toboso's use of female characters within the series Black Butler as a way to break modern day stereotypes within the Anime and Manga industry. This paper follows the development of Toboso's character, Elizabeth Midford as she grows throughout the course of the storyline from her use as a metaphor for the main character's past trauma and into her own usefulness as a character that pushes the plot forward.	English	Dr. Erica Dymond
148	2:30 p.m.	Tristan Tedford	Perceptions of Female Coaches in Female Athletics	Gender has been a major issue in athletics since the beginning of modern sports. Title IX has been pivotal in the role of equality among women and men in athletics. Men have assumed a majority in NCAA athletics when it comes to coaching female athletes. The purpose is to comprehend the athletes, parents of the athletes, and athletic administrators' perceptions being either negative or positive in regards to having a female coach. Through in depth interviews and focus groups, the study is determined to find adequate data on the perceptions of female coaches coaching female athletics.	Sport Management	Dr. Minjung Kim
136	2:45 p.m.	Thomas Stocker	Silk, Silver, and Slaves: The Evolution of Trade from Asia to a Global Economy from the 13th-17th century	Trade has always been a significant part of global history and has been valued by many civilizations. In order to operate trading systems, one required a form of currency or system of exchange- this was silver, a highly valued metal by China and Europe. The desire for silver began in China during the Silk Roads, a regional trade system. With the advent of maritime trade and European desires for luxury, Oriental goods came the silver trade, the first truly global network of trade and exchange. In order to acquire this silver in the Americas, Spain needed slaves.	History	Dr. Michael P. Gray
138	2:45 p.m.	Destany LaBar	Math Statistics vs. Applied Statistics: Thinking of the Audience When Presenting Data	Math statistics and applied statistics vary from each other in terms of goals and outcomes. When presenting data to an audience it is important to know the different ways to do so and which version of statistics to use. Using my experience as an intern for GEAR-UP I will discuss the benefits, and differences between each type of statistics, and show a case example.	Mathematics	Dr. Kristin Noblet

ORAL PRESENTATIONS, 2–3 P.M. (CONTINUED)

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
144	2:45 p.m.	Furlow King	The Analysis of Hiring Practices and The Lack of Minority coaches in Division I College Football	This study is to see who and if anybody notices the disparity of minority coaches in major division I college sports, and also to analyze the fluctuations of minority coaches over years past to see if any progress has been made in hiring and retaining minority coaches. This study will look to understand some reasons as to why the racial gap exist. A survey that will test the knowledge of average fans of college sports to determine if fans notice the racial gaps and of minority coaches success, also through analyzation of the fluctuations of minority college coaches.	Sport Management	Dr. Minjung Kim
145	2:45 p.m.	Lydia Hess	Exploring Assessment for Multiple Intelligences: Multigenre Research Projects	Multigenre research papers are a valuable tool for high school teachers to utilize in their classrooms because they allow room for self-expression and for the students to truly interact with the material. The students complete their research, and through a variety of different formats, they are asked to interpret and reimagine how it might be presented. This allows them the opportunity to utilize higher order thinking skills to truly engage with the material. It gives students the chance to morph the structure in which they present their research in a way that best suits their interpretation of it.	English	Dr. Erica Dymond
148	2:45 p.m.	Nicholas Wilder	Concussions in the Sport of Football	The purpose of this research is to develop an understanding on the perception of concussions in football. Research included interviewing seven individuals, all of who are aware of the dangers in football. The various answers displayed that players look out for their teammates more than themselves. The data was recorded in the program, Nvivo, using keywords from the interviewee responses. The results demonstrate that the interviewees agree on very few questions regarding symptoms and teammate camaraderie. Seeing as the seven individuals responded differently, the data reflects that the football industry lacks a universal understanding on the effects of concussions.	Sport Management	Dr. Minjung Kim

ORAL PRESENTATIONS, 3–4 P.M.

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
136	3 p.m.	Judaha Amoroso	A tale of two Hip Hop radio station cultures: The impacts of Breakfast Club and Hot 97 on communication styles	The study reported here examines the theory of cultural approach to organizations by focusing on communication interaction in the cultural context of two different hip hop radio programs: Hot 97 and Breakfast Club. The study took a comparative look at rapper Dave East's conversational styles on the two programs. The organization culture of Breakfast Club led to a conversational style of communication. In comparison, the culture of Hot 97 led to a display of his talents.	Communication	Dr. Patricia Kennedy
144	3 p.m.	Brian Russell, Christian Colon, Mauria M. Febbraro, Tania Moore, Johayls Marte, Francina Phillips, Nicholas Jauch, Eli Downie	2017 Inauguration Seminar: Experiential Learning: Objectives, Outcomes and Engagement	During this presentation, students who participated in the 2017 Presidential Inauguration Seminar sponsored by the Osgood Center for International Studies will share their personal goals and learning objectives for their participation in the seminar. Further, students will explore how those goals and objectives were met, and how such experiential learning opportunities informs classroom learning and leads to greater civic engagement.	Political Science	Dr. Kimberly S. Adams
145	3 p.m.	Jake Beitler	The Effects of Weight Loss in High School Wrestling	This study aimed to explore the future intentions of rapid weight loss in high school wrestling in order to continue the efforts of eliminating it from the sport. A total of 100 male high school varsity wrestlers from Southeastern Pennsylvania participated in the study. Each participant completed a fifteen question closed-ended survey containing basic weight loss questions. It was determined there was no significance found between the effects wrestlers have experienced and their future intentions. The results suggest further research needs to be done to explore rapid weight loss and how it affects the future of wrestling.	Sport Management	Dr. Minjung Kim

ORAL PRESENTATIONS, 3–4 P.M. (CONTINUED)

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
148	3 p.m.	Richard Oliver, Elizabeth Hogate, Kyla Zimmerman, Ashli Sampson, Deborah Roberts, Laniah Fields	Religion, Identity, and Public Life	In today's society religious tolerance is important because it is a necessity for individuals within a society to get along and allows for individual freedom.. By understanding religious tolerance, one can learn how to identify themselves spiritually and emotionally to better society in efforts to become a contributing activist. One can use social media to start influencing others to stand up for their beliefs, as many athletes have done, relying on their faith to overcome negative effects they experience in the process. In this presentation we will share our research about the function of religion in society.	Philosophy & Religious Studies	Dr. Tim Connolly
136	3:15 p.m.	Henry Schecker	Media Bias during the 2016 Democratic Primary Election: A Quantitative Analysis of the New York Times' coverage of Senator Bernie Sanders and Secretary Hillary Clinton	My project was a quantitative analysis of the New York Times' coverage of the 2016 Democratic Primary Elections between Sen. Bernie Sanders of Vermont and Sec. Hillary Clinton of New York. I wanted to see whether or not there was a bias favoring one candidate over the other. During my analysis I discovered that while there was an identical amount of positive statements in my sample group for both Hillary and Bernie, the number of negative statements was lopsided with Sen. Sanders receiving many more negative statements than Sec. Clinton. Confirming that the New York Times presented Clinton more favorably	Communication	Dr. Patricia Kennedy
144	3:15 p.m.	Brian Russell, Christian Colon, Mauria M. Febbraro, Tania Moore, Johayls Marte, Francina Phillips, Nicholas Jauch, Eli Downie	Witnessing History: the 2017 Presidential Inauguration Seminar	During this presentation, students will discuss interactions with prominent Washington Insiders while participating in the 2017 Presidential Inauguration Seminar sponsored by the Osgood Center for International Studies. Students will highlight some of the expert presenter's political commentary, major themes and analyze the speaker's expectations with regard to the Trump Administration.	Political Science	Dr. Kimberly S. Adams
145	3:15 p.m.	Christopher P. Ott	Motivational, Coaching, Parental and Peer Factors That Lead to Withdrawal of Youth Athletes	The purpose of the study was to discover how, why, and to what extreme, youth athletes were withdrawing from youth sport with an emphasis on motivation, parent influence, peer influence, and coaching style. Through the use of a survey questionnaire, this study was able to find how each individual athlete rated those factors that lead to withdrawal during their tenure of participation. It was found that athletes were more highly affected by motivational and coaching style factors when withdrawing from sports. In conclusion, youth athletes felt more affected by motivation and coaching style as it pertains to withdrawal.	Sport Management	Dr. Minjung Kim
148	3:15 p.m.	Gracey Eden, Gregory Cooper, Emily McDermott, Kristin Trusa	The Psychology of Conspiracy Theories that Shaped America	Why do so many people believe that the government is lying to us? It is a strong possibility that secrecy and lies shaped the United States to become the greatest country in the world. Conspiracy theories in a psychological aspect have captivated the minds of many American citizens. What has caused this and why do conspiracies overpower the truth?	Philosophy & Religious Studies	Dr. Tim Connolly
136	3:30 p.m.	Danielle Prestifilippo	The antimicrobial properties of Copper on Salmonella enteritidis, E. coli and Staphylococcus aureus	Understanding how to prevent the spread of bacteria from contact surfaces is important in any hospital/laboratory setting. In order to prevent spread, there needs to be an understanding for how rapidly bacteria will grow on different, commonly-found surfaces. In this project, the anti-microbial properties of copper and bacterial growth on common surfaces are investigated. Salmonella, E. coli and Staphylococcus aureus suspensions are added to contact surfaces and exposed to copper. After various amounts of time, the surfaces are swabbed and plated on TSA plates and incubated for one week. The plates are then examined for their bacterial growth present.	Biotechnology	Dr. Abdalla Aldras

ORAL PRESENTATIONS, 3–4 P.M. (CONTINUED)

Location	Time	Presenter(s)	Title	Abstract	Department	Adviser
144	3:30 p.m.	Connor Saker, Chad Witmer, Shala Davis, Gavin Moir	The Effects of an Acute Bout of Resistance Training on College-Aged Male 24 Hr Resting Metabolic Rate (RMR)	Consistent resistance training (RT) has been demonstrated to increase lean mass and is usually accompanied by an increase in RMR which may help combat obesity. PURPOSE: To determine the effects of an acute bout of resistance training on college-aged males' 24hr RMR. METHODS: Ten healthy men performed 8 exercises recommended by the ACSM. Subjects completed both an experimental and control day separated by 1 week. Seven metabolic tests were performed over 24hrs. RESULTS: RMR was not significantly increased following exercise compared to control. It was concluded that an acute bout of RT does not significantly impact male RMR 24hrs post-exercise	Exercise Science	Dr. Chad Witmer
145	3:30 p.m.	Kylee Nicholas, Amanda Laforest, Julianne Fitzsimmons, Tatyana Petteway, Justin Haynes	Psychology in Athletics: Connection Between Athletes and the Appeal to the Human Mind	Have you ever experienced a bond so strong that you placed all of your trust in your teammates? Whether it's on the court playing tennis, or on the field making tackles in a football game, teammate bonds are essential to the overall success of the team. However, teammates come in all shapes, sizes, and species. Have you ever placed all of your trust in an animal that can't even speak your language? Equestrians face this challenge each time they work with their teammates. Our research examines the crucial and delicate bond between athletes that takes time and patience to achieve.	Philosophy & Religious Studies	Dr. Tim Connolly
148	3:30 p.m.	Shawn Dean	Perceptions of the NFL's Implementation of Concussion Policies and Procedures by College Football Players	This study highlights the importance of properly reporting concussions, the need for protective equipment, and ending the conflict of interests that exist in occupational health. It will explore what the NFL has done in an effort to protect its players from concussions and how the league is viewed in the eyes of current and/or inactive college football players. The surveys completed by the respondents reveal their perceptions regarding player safety and the NFL's new methods of protecting players. Lastly, the data will determine if the respondents feel the NFL has handled concussions to the best of its ability.	Sport Management	Dr. Minjung Kim
144	3:45 p.m.	Kerry Adams	Perceptions of AAVE speakers among SAE speakers	Sociolinguistic research suggests that distinctions in dialect impact how individuals perceive each other. Evidence is limited regarding how differences in incidence and type of linguistic variation impact perception. The current study seeks to determine how different amounts and features of African American Vernacular English (AAVE) signal character distinctions. This study will present speakers of Standard American English (SAE) with audio recordings consisting of varying amounts of AAV. Listeners will rate speakers across scenarios related to perception.	Communication Sciences & Disorders	Dr. Rachel Wolf
145	3:45 p.m.	Amanda Gaba, Sabrina DeOrdaz, Me'Saj Closs, Christian Cedeno	Mental Health and Decision-Making in College	Students in college need to develop proper mental health in order to have agency. The mind is an important element of a person being aware of the world and their experiences. Mental health in college helps with receiving information about a career that a student is interested in before making a choice, and is vital to help them to grow. Students are able to freely express themselves with help from Adlerian-Based positive group counseling. In this presentation, we will present current research about maintaining mental health in a college environment.	Philosophy & Religious Studies	Dr. Tim Connolly
148	3:45 p.m.	Antoine Ray	The Role of College Coaches Helping Prevent Male Student-Athlete Violence Towards Women: Are they Part of the Problem or the Solution	It's shameful that male student-athletes violence towards women is on the rise, sexual violence and domestic violence is something that should not be taken likely. Female students should not feel vulnerable and unsafe while they are trying to enjoy their college education. My research looks at the connection between male student-athletes and the amount of awareness, education and training that their school, coaches and athletic staff provide. To find this information I interviewed 2 student-athletes, 2 athletic staff, and 2 coaches with one male and one female in each group asking questions about sexual and domestic violence.	Sport Management	Dr. Minjung Kim



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