

SCHOLAR Day

Student Celebration Honoring
Our Latest Academic Research

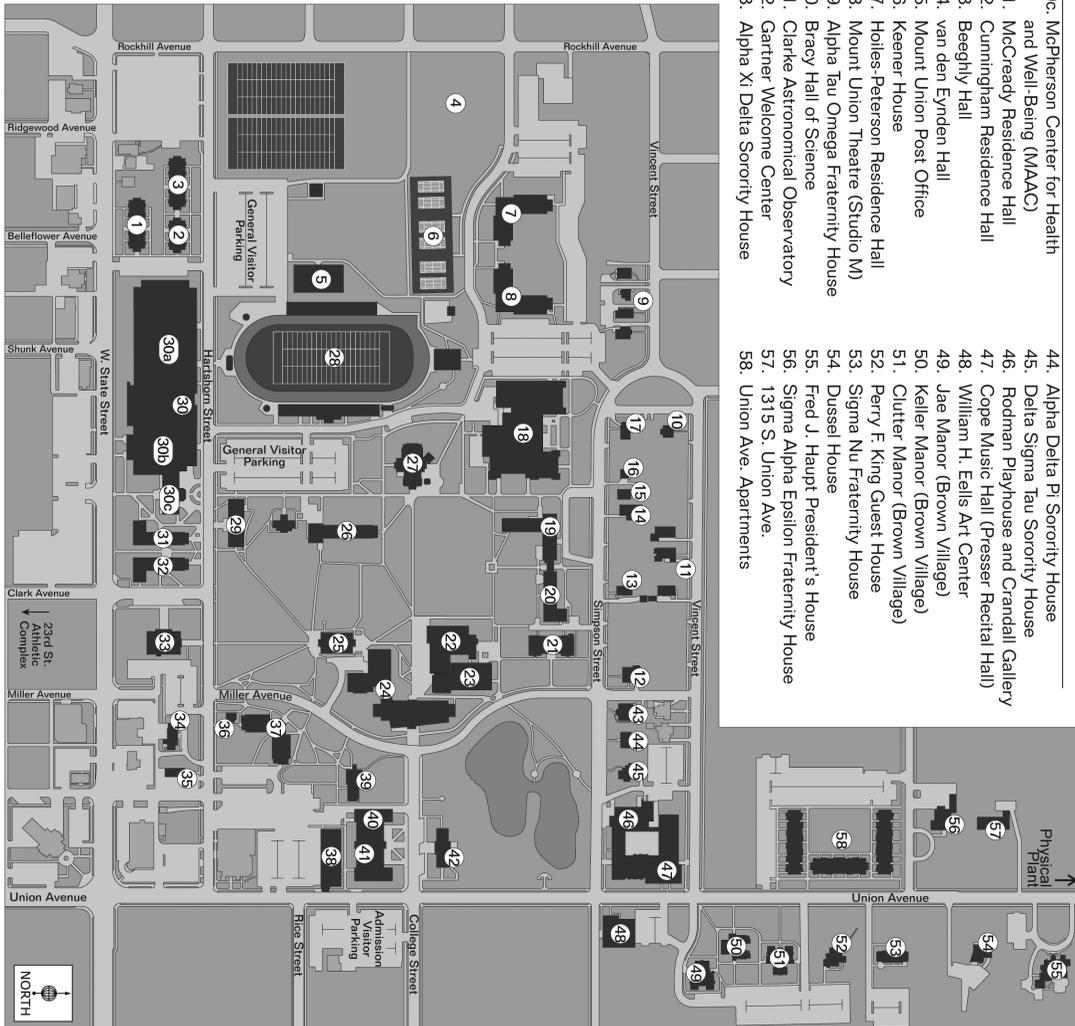
Tuesday, April 22, 2014

Schedule At A Glance

9 – 9:45 a.m.	Poster Session I and Continental Breakfast Bracy Hall
10 – 11 a.m.	Presentation Session I Bracy Hall, Engineering and Business Building, Kolenbrander-Harter Information Center and Tolerton and Hood Hall
11:30 a.m. – 12:30 p.m.	Senior Recognition and Honors Convocation Timken Gymnasium, McPherson Academic and Athletic Complex
12:30 – 1:30 p.m.	Participant Lunch Tented area in the Academic Mall (<i>rain or shine</i>)
1:30 – 2:30 p.m.	Presentation Session II Bracy Hall, Engineering and Business Building, Kolenbrander-Harter Information Center and Tolerton and Hood Hall
2:30 – 3:15 p.m.	Break and Refreshments Bracy Hall
2:30 – 3:15 p.m.	Poster Session II Bracy Hall
3:30 – 4:30 p.m.	Presentation Session III Bracy Hall, Engineering and Business Building, Kolenbrander-Harter Information Center and Tolerton and Hood Hall

Building Key

1. Orwick Court
2. Adams Court
3. Grove Court
4. Montgomery Field
5. Gullwing Training Center
6. Whitehill Tennis Courts
7. Shields Residence Hall
8. Bica-Ross Residence Hall
9. 532 - 564 Vincent St.
10. Weber House
11. 330 - 254 Vincent St.
12. 205 Simpson St.
13. Black Cultural Center
14. Alpha Chi Omega Sorority House
15. 355 Simpson St.
16. Campus Security
17. 431 Simpson St.
18. Hoover-Price Campus Center
19. McMaster Residence Hall
20. Ketcham Residence Hall
21. Elliott Residence Hall
22. Engineering and Business Building
23. Tolerton and Hood Hall
24. Kolenbrander-Harter Information Center (Library)
25. Chapman Hall
26. King Residence Hall
27. Deward Chapel
28. Mount Union Stadium
29. Miller Residence Hall
30. McPherson Academic and Athletic Complex (MAAC)
- 30a. Peterson Field House (MAAC)
- 30b. Timken Physical Education Building (MAAC)
- 30c. McPherson Center for Health and Well-Being (MAAC)
31. McCready Residence Hall
32. Cunningham Residence Hall
33. Beeghly Hall
34. van den Eynden Hall
35. Mount Union Post Office
36. Kaerner House
37. Holles-Peterson Residence Hall
38. Mount Union Theatre (Studio M)
39. Alpha Tau Omega Fraternity House
40. Bracy Hall of Science
41. Clarke Astronomical Observatory
42. Gartner Welcome Center
43. Alpha Xi Delta Sorority House
44. Alpha Delta Pi Sorority House
45. Delta Sigma Tau Sorority House
46. Rodman Playhouse and Crandall Gallery
47. Cope Music Hall (Presser Recital Hall)
48. William H. Ellis Art Center
49. Jae Manor (Brown Village)
50. Keller Manor (Brown Village)
51. Clutter Manor (Brown Village)
52. Perry F. King Guest House
53. Sigma Nu Fraternity House
54. Dussell House
55. Fred J. Haupt, President's House
56. Sigma Alpha Epsilon Fraternity House
57. 1315 S. Union Ave.
58. Union Ave. Apartments



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Poster Presentations

Poster Session II | 2:30-3:15 p.m. | Bracy Hall

Brittany Coy
(Middle Childhood Education)

Faculty Sponsor: Fang Du, Academic Affairs, Institutional Research Office
E-Portfolios: Giving students a step-up in the employment world while promoting an attitude of lifelong learning.

Eric Genshock
(Environmental Science)

Faculty Sponsor: Charles McClougherty, Department of Biology, Huston-Brumbaugh Nature Center
CARBON DIOXIDE EFFLUX FROM SOILS: THE EFFECT OF N FERTILIZATION ON FIELD AND WOODLAND ALFISOLS

Lauren Gosser
(Chemistry)

Faculty Sponsor: Robert Woodward, Department of Chemistry and Biochemistry
Preventing LPS Biosynthesis: The Development of a Chemoenzymatic Synthesis of the LpxC Substrate

Sarah Kirk
Mary Catherine Powers
Caitlin Goggin
(Exercise Science)

Faculty Sponsor: Lonnie Lowery, Department of Human Performance and Sport Business
Caffeine Content and Exercise-Psychostimulant Effects of VIA® Instant Coffee

Eva Laino
Christine Culver
Noah Kainrad
(Biochemistry)

Faculty Sponsor: Debra Boyd-Kimball, Department of Chemistry and Biochemistry
The Effect of the Antioxidants N-Acetyl Cysteine and Resveratrol on Ethanol-Induced Oxidative Stress in Mouse Liver

Giang Le
(CM-Media)

Faculty Sponsor: Govind Shanadi, Department of Communication Studies
U.S. Media Representation: Human Trafficking on Documentary and Film

Lauren Leister
(Physician Assistant Studies)

Faculty Sponsor: Vanessa Worley, Physician Assistant Studies Program
Comparing Cystic Fibrosis Treatments; How Gene Therapy Drugs Will Drastically Change the Management of This Devastating Disease.

Jeffrey Polen
(CM- Public Relations)

Faculty Sponsor: Govind Shanadi, Department of Communications Studies
Enticing New Demographics with YouTube

Logan M. Rock
(Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies
The Effects of Two Newly FDA Approved Weight-loss Medications on Metabolic Syndrome

Cameron Rudibaugh
(Biology)

Faculty Sponsor: Lin Wu, Department of Biology
Recovery and health assessment of Little Beaver Creek, Ohio forty years following closure of the Nease Chemical Company.

Ryan Smith
(CM-Media)

Faculty Sponsor: Govind Shanadi, Department of Communication Studies
Seeing Eye-to-Eye: how Current Media is Shaping Societal Interaction

Calley Taylor
(Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies
Very Low Birth Weight Infants in the Breech Position: Cesarean vs. Vaginal Delivery?

David Zimcosky
(Physician Assistant Studies)

Faculty Sponsor: Vanessa Worley, Department of Physician Assistant Studies
Systematic Review of Substance Abuse Screening Tools: Determining Which Tool is Best for Identification of Substance Abusers Prior to Opiate Prescription

Formal Presentation Abstracts

Logan Cook (Psychology)

Carly Mihalic (Psychology and English: Writing)

Levi Simmons (Psychology)

Faculty Sponsor: Michael Knepp, Department of Psychology

10:00 a.m., Kolenbrander-Harter Information Center, Room 013

Placebo Effect on Physiological and Cognitive Reactions

The purpose of this study is to analyze how prior information received can affect a person's expectations, thus affecting their reactions. 40 participants took either 200mg of caffeine or what they believed to be 400mg of caffeine. Cognitive reactions were measured by performance on the game Bop-It and two self-report surveys, while physiological reactions were measured via electrocardiograph machine. Researchers hypothesized that the placebo and caffeine groups would show similar cognitive reactions based on responses to the Caffeine Expectancy Scale and self-report survey as well as Bop-It scores. It is expected that the groups' physiological reactions will be different, with the caffeine group showing a greater increase in heart rate. If these hypotheses are supported, this study will contribute to current research that validates the effect of placebos, ultimately enlightening consumers and professionals in this field on treatment options other than medication.



Angie Cox (Exercise Science)

Dakotah Young (Exercise Science)

Faculty Sponsor: Kelsey Scanlon, Department of Human

Performance and Sport Business

1:50.m., Tolerton and Hood Hall, Room 100

The Effect of Barefoot Running on the Speed of Recreational Runners Compared to Shod Running

Barefoot running has become a popular trend among endurance runners. There is a lot of research showing that running barefoot improves oxygen consumption of long distance runners and that running barefoot could reduce the risk of injury. However, very little research has been done studying the effects that footwear (or lack of footwear) has on sprinters. We examined running barefoot compared to running shod and the effect on sprinting times. Subjects ran 6 sprints of each of the following: 60m, 200m, and 400m. Half of the trials were completed barefoot and the other half wearing shoes (shod). Data collection had not been finalized at the time of this writing, but final results will be presented during the formal presentation. This knowledge could be vital to athletes or runners who want to improve their sprinting speed.



Caitlin DiCresce (History)

Faculty Sponsor: Theresa Davis, Department of History

3:30 p.m., Kolenbrander-Harter Information Center, Room 013

Reconstruction: America's Attempt to Protect African American Freedom

We learn as children that the Civil War brought about the end of slavery in the United States, but was it able to actually guarantee real freedom to the African Americans of the South? Historians have often debated the effects of Reconstruction policy on American politics, economics, and society, and have come to conflicting conclusions. The standards that began during Reconstruction have had a



Music Performance

Students from Dr. Ekey's Sound and Music (PHY 145) class will be performing on homemade instruments.

Music Performances | 9:40 a.m. and 3:10 p.m. | Bracy Hall

Mark Allen Amabeli

Taylor Morgan Bishop

Zachary Kegan Crowell

Jarrold Thomas Dawson

Hogan Benjamin Harris

Johnathan Philip Hartong

Glenn Wayne Hatala

James Andrew Kent

Nathan Frederick Levensgood

Bradley Emerson Linerode

Daniel L Luzar

Andrew Michael Milhoan

Alexandra Scala

Matthew D Zalaiskalns

Formal Presentation Abstracts

significant impact on the history and development of the United States, even up to today. My research centers on determining whether or not Reconstruction successfully incorporated African Americans into a truly free society. Through the analysis of firsthand accounts, historical research, and policies of the period, I have reached the conclusion that Reconstruction ultimately failed to protect the freedoms that had supposedly been granted to the African American community.

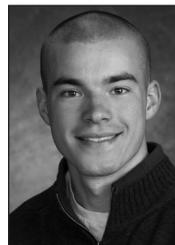
Kyle Dreger (Writing and Computer Science)

Faculty Sponsor: Frank Tascone, Department of English

4:10 p.m., Engineering and Business Building, Room 206

Publishing My Own Webcolumn and Podcast

For the past 30 weeks, I have been experimenting with publishing my own online webcolumn and podcast at kyledreger.com. This venture of writing and speaking online has led me to a readership of over 1,500 people, spanning 30 different countries. Taking on the role of writer, marketer, publisher, and editor, I have had the opportunity to experience many of the responsibilities that are involved with running an online publication. Reading over 800 news articles a day; curating media from over 50 different websites; and recording podcast episodes featuring inorganic chemists, writers, and professors; I have learned what it takes to publish a substantial amount of work online and how I can make a living in the future by doing so.



Shane Duda (Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies

4:10 p.m., Bracy Hall, Room 06

Marijuana Without the High: an Exploration of its Potential in Medical Use

The legalization of marijuana has been a huge topic in recent media. Twenty states currently permit the use of marijuana for medical purposes, four of which have been legalized within the last two years. The use of medical marijuana has the potential to impact not only those who use it, but also anyone who is around them. While multiple studies have shown that medical marijuana has numerous side effects that many patients find bothersome, it continues to be used in the treatment of several neurologic disorders. This research is a systematic literature review that evaluates the therapeutic benefit of marijuana that lacks THC, the chemical responsible for its troublesome side effects. The results suggest treatments that do not exhibit the psychoactive effects of traditional marijuana may offer promising alternatives for patients suffering from neurological disorders compared to treatments that are currently being offered.



Sara Fountain (Biology)

Faculty Sponsor: David Thiele, Department of English

3:30 p.m., Tolerton and Hood Hall, Room 100

Don't Go Stakin' My Heart: Justifying the Mutilation of the Undead in Dracula

Vampires and other undead beings have flooded myths and folklore of the Victorian era. They have influenced many works of art, including Bram Stoker's novel, *Dracula*. In my research I studied the folklore, superstitions, scientific advancements, medical research, disease contagion, and general views of death at the time in order to justify the characters' actions and decisions for when and how bodies of the dead and undead could be mutilated for the benefit of mankind. Have you ever wondered where all of the fascination with vampires and inspiration for novels like *Dracula* came from? Come and see my presentation to see how the superstitions of the undead have influenced authors and the general public surrounding the Victorian era.



Poster Presentations

Poster Session I | 9-9:45 a.m. | Bracy Hall

Arsalan Ahsan

(Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies
Home Based Testing for Obstructive Sleep Apnea

Emily Baumgardner

(Chemistry)

Faculty Sponsor: Debra Boyd-Kimball, Department of Chemistry and Biochemistry
Impact of Short-Term Exercise and Age on Oxidative Stress in the Brain of Mice

Nicole M. Englert

(Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies
Do Water Births Provide Any Benefits Over Conventional Birthing Styles in Regards to Fetal Complications?

Caitlin Goggin

Mary Catherine Powers

(Exercise Science)

Faculty Sponsor: Lonnie Lowery, Department of Human Performance and Sport Business
The difference in the effects of caffeine on the upper body versus lower body muscles.

Alyssa Greenwell

(Biochemistry)

Faculty Sponsor: Robert Woodward, Department of Chemistry and Biochemistry
Synthesis of the LpxC Substrate as a Tool for Antibiotic Development

Heather Lee

(Biology)

Faculty Sponsor: Lin Wu, Department of Biology
Effects of Alcohol and Caffeine Consumption on the Behavior of Mice

Emily Love

Johnathan Zahn

Derek Frye

Derick Schwedt

Kevin Stacey

Jenny Gamertsfelder

(Physical Education, Health and Special Intervention)

Faculty Sponsor: Bruce Pietz, Department of Human Performance and Sport Business
What does P.E. actually stand for in today's schools?

Kaylah Nieschwitz

(Athletic Training)

Faculty Sponsor: Morgan Bagley Cooper, Department of Athletic Training
Treatment of bipartite/tripartite patella in a female collegiate athlete.

Angela Paridon

(Biology)

Faculty Sponsor: Kim Risley, Department of Biology
*Soil Microbial Metagenomic Analysis and Phage Hunting of Huston-Brumbaugh Nature Center Native *Lindera benzoin* (Spicebush)*

Kalyn Peck

Hogan Harris

Mitch Weaver

(Physics)

Matt Jones

(Mechanical Engineering)

Faculty Sponsor: Robert Ekey, Department of Physics and Astronomy
Physics of Loops and Jumps with Hot Wheels

Dylan Puckett

(Exercise Science)

Faculty Sponsor: Lonnie Lowery, Department of Exercise Science
HIIT Cardio vs Steady State Cardio: Effects of Aerobic Exercise on Body Composition

Jason R. Ridgley

Christina R. Harris

(Psychology)

Faculty Sponsor: Kristine Turko, Department of Psychology
College Students and Stereotypes of Gender-Traditional Career Paths

Gina Serluco

(MAEL)

Faculty Sponsor: Jennifer Martin, Department of Education
Education for Community is a Community for Education

Morgan Shivers

Joyanna Hoffman

(Biochemistry)

Faculty Sponsor: Debra Boyd-Kimball, Department of Chemistry and Biochemistry
The effect of social isolation and environmental enrichment on oxidative stress in the brains of mice.

Mary Katherine Wills

(Sociology & Criminal Justice)

Faculty Sponsor: Kathleen Piker-King, Department of Sociology and Criminal Justice
Alliance for Children & Families, Inc.

Formal Presentation Abstracts

explain this concept in depth, as well as provide a forum for talking about the issue without judgment.

Emily Woodall (Riesenberg) (Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies

1:30 p.m., Engineering and Business Building, Room 203

Male birth control: What are the options?

The options for women's birth control seem to be endless, but what about for men? This study focuses on various birth control methods just for men, and how this will affect future planning with both men and women. A literature review was conducted comparing the hormonal and non-hormonal options of male contraceptives, as well as the effectiveness of each. Injections of various hormones was effective in decreasing sperm count, but had some side effects. Results showed that the most effective method with the least amount of side effects was a non-hormonal implant, which lasts for up to ten years. Increasing the options for male birth control will not only allow men to have a more active role in future planning, but will in turn allow women more options if they are unhappy with their current birth control method.



Jeffrey Yoza (Psychology)

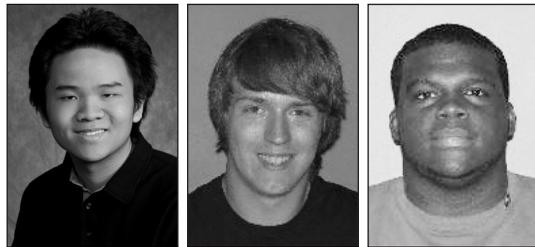
Brett Stoll (Psychology)

Diony Jasmin (Psychology)

Faculty Sponsor: Kristine Turko, Department of Psychology

So You Think You Can Math?

Math Tests. Like them or hate them, you've had to do them time and time again in your education. But did you know that some people might have a natural inclination to do poorly on them? Likewise, some people might be better equipped to handle math—all before education or grades even come into play! This study investigated how students at the University report their intrinsic confidence in handling mathematics as well as their perceived anxiety levels in everyday situations that necessitate mathematics and what effects it had when they were asked to complete an elementary level math exam. The research completed is beneficial to future teachers, those entering any field that involves mathematics, and those that want to know how a few simple words can change a student's test score.



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Rebecca Gibson (Biochemistry)

Faculty Sponsor: Debra Boyd-Kimball, Department of Chemistry and Biochemistry

1:30 p.m., Kolenbrander-Harter Information Center, Room 013

The Effect of High Fat Diet on Oxidative Stress in the Mouse Kidney

Chronic kidney diseases are associated with oxidative stress which is an imbalance between pro-oxidants and antioxidants. When oxidative stress is increased it limits an organism's natural antioxidant protection mechanism. Due to an increase in pro-oxidants and a decrease in the antioxidant defense mechanisms over time, high fat diet induced obesity in turn leads to oxidative stress which has been found to be a major culprit of kidney damage. Previous studies have primarily focused on long-term high fat diet exposure that induces obesity and oxidative stress in the kidneys of mice; however, studies of short-term high fat diet exposure are limited. The purpose of this study was to examine the effect of a short-term high fat diet, which did not induce obesity, on oxidative stress levels in mouse kidney. The results of biochemical tests completed to determine the level of oxidative stress in the kidney will be presented.



Kristin Gromes (Mechanical Engineering)

Alina Selby (Mechanical Engineering)

Shannon Guersney (Mechanical Engineering)

Faculty Sponsor: Osama Jadaan, Department of Engineering

10:20 a.m., Engineering and Business Building, Rm 203

Design and Analysis of Aerodynamic Fairings for Improving the Performance of Flatbed Trailers

Transportation by tractor trailers plays a major role in national economy. Studies show that up to fifty percent of the tractor's power is consumed to overcome the air resistance to motion known as drag force. One of the techniques implemented in the recent past to overcome this drawback is the usage of fairings. Fairings are attachments to trailers that reduce drag force and improve the trailer's fuel efficiency and stability on the road. This Senior Capstone Design project is sponsored by MAC Trailer and is executed by three mechanical engineering students. The work includes researching the existing fairing designs, analyzing the designs through computer simulations, 3D printing and experimental testing of trailer models in a wind tunnel, and designing new fairings that fulfill the industry requirements.



Cy Guertal (Mechanical Engineering)

Neal Seaman (Mechanical Engineering)

Daniel Luzar (Mechanical Engineering)

Bryan Pike (Mechanical Engineering)

Faculty Sponsor: Osama Jadaan, Department of Engineering

10:40 a.m., Engineering and Business Building, Room 206

UMU Baja Races toward Competition

Have you heard of the smartphone app that claims to clear up acne by emitting colored flashing lights? What about



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the “chat online now with a live doctor” websites? More than 80% of people use the internet for health-related information, often without taking into consideration reliability, accuracy, relevance, and credibility of the sources being used. The abundance of inaccurate information readily available to consumers has the potential to be detrimental to one’s health. This study addresses positive and negative consequences of internet use for health information, as well as suggestions for how to utilize the internet for reliable health-related advice. The research was conducted through a literature review with the ultimate goal of creating an evidence based practice guideline. Findings suggest that internet use for health-related information can be beneficial when practiced responsibly and in conjunction with healthcare provider consultation.

Jamie Hodess (Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies

10:40 a.m., Engineering and Business Building, Room 203

Effect of low to moderate alcohol consumption during early pregnancy on fetal development and childhood cognitive functioning.

Have you ever wondered if one or two alcoholic drinks during pregnancy will really harm the baby? What if small amounts actually had no negative consequences? Most women are aware of the damaging risks of alcohol consumption during pregnancy, yet approximately 50% still drink despite doctor recommendations! Perhaps the establishment of a safe alcohol level during pregnancy could decrease chances of negative fetal outcomes. This study examines the consequences of low to moderate alcohol consumption in early pregnancy with the ultimate goal of determining how much (if any) alcohol is actually considered safe during pregnancy. The research was conducted through a systematic review of medical literature. Findings suggest that small quantities consumed occasionally do not appear to pose serious threats to the baby’s development or childhood mental functioning. However, a safe level of alcohol consumption has not yet been established. Current medical literature still recommends abstinence from alcohol during pregnancy.



Christian Klinec (Exercise Science)

Josh Winn (Exercise Science)

2:10 p.m., Kolenbrander-Harter Information Center, Room 013

Faculty Sponsor: Katherine Clark, Department of Human Performance & Sport Business

The Effects of Grip Training on Bench Press, Hang Clean, and Overall Grip Strength during an Eight Week Offseason Strength and Conditioning Program for Division III Collegiate Football Players

Strength and conditioning has become one of the most critical aspects of a successful collegiate football program. Core lifts such as the bench press and hang clean are well known; but grip exercises are not viewed as important. The purpose of this study is to understand the effects of grip training on bench press, hang clean, and overall grip strength during an eight week offseason strength and conditioning program for Division III collegiate football players. An experimental group of 10 offensive linemen went through a grip strength program twice a week, along with their normal strength program; at the end of the 8 weeks the group will be compared to a control group of 10 Linemen who only followed the normal football strength program. It is inferred that the experimental group will have a higher percent change in their grip strength at the end of the study.



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Stefanie Toppel (English)

Madeline McClellan (Literature and French)

Ashley Chittenden (Early Childhood Education)

Jimmy Winkelman (Intervention Specialist and Physical Education)

Samantha Furr (Early Childhood Education and Intervention Specialist)

Sara Fountain (Biology)

Miranda Huebner (Early Childhood Education & Intervention Specialist)

Annie Bova (English: Literature)

Abby Wemhoff (Health and Physical Education)

Faculty Sponsor: Jennifer Martin, Department of Education

3:50 p.m., Engineering and Business Building, Room 206

Where is the Love?

Service-learning is used to enrich a student’s education by allowing the student to contribute to the community in positive and enduring ways, all the while learning from the project itself. Because service-learning was a requirement in our multicultural education course, the students of Dr. Jennifer Martin’s class decided to contribute to the community by creating and hosting a conference for 100 Alliance Middle School students with the intention of making the middle school students aware of the consequences of bullying based on gender, race, media, etc. We chose Alliance Middle School to conduct our conference after we were made aware of the various amounts of bullying taking place in the school and the effect that bullying had on the school’s environment and culture. We ultimately learned the rewarding feeling that service-learning allows and that making a difference is possible.

Amber Veverka (Writing)

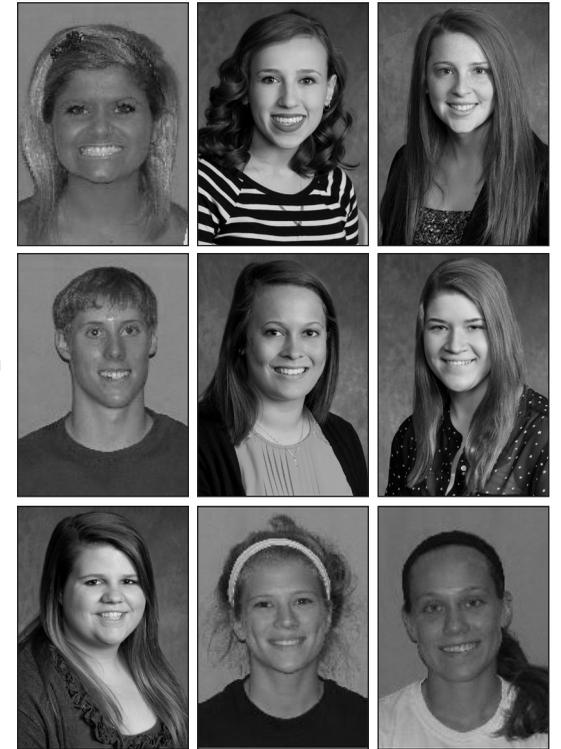
Alex Williamson (Middle Childhood Education)

Faculty Sponsor: Ernest Pratt, Department of Education

1:30 p.m., Bracy Hall, Room 06

White Privilege: Does it Exist in America?

White Privilege is a concept that is commonly overlooked, or even unheard of. Originally used by the colonial ruling class seeking to divide the oppressed from their oppressors, it is the idea that people who are white have undeserved and unseen benefits not had by people of color. Because we live in a society where the majority of citizens embrace meritocracy, the idea that anyone can achieve their goals in life as long as they work hard and persevere, that same society has trouble accepting that not everyone starts on a level playing field. Recognizing White Privilege is the first step to reaching equality, and it starts with education of true equality from a young age. This presentation seeks to



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Anne Sommerfeld (Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies

10:20 a.m., Engineering and Business Building, Room 206

New Medical Treatment for Allergy Sufferers

Do you suffer from severe allergies? Do you currently receive allergy shots? If you fall into one of these categories, then you may benefit from this new allergy treatment. Most people that suffer from allergies usually take medications to lessen their symptoms; however, this does not completely get rid of the allergy. Currently, allergy shots are the only method that actually eliminates allergies, but there has been new research into the idea of using oral treatment for allergy sufferers. A systematic review of various research articles was carried out in order to determine how safe and effective the oral allergy treatment options are compared to allergy shots. Most of the findings supported the fact that oral treatment options are just as safe and effective as allergy shots for adult and children patients. This research may improve overall convenience and eliminate the use of needles.



Julie Spehar (Physician Assistant Studies)

Faculty Sponsor: Vanessa Worley, Department of Physician Assistant Studies

2:10 p.m., Engineering and Business Building, Room 206

Electronic Cigarette: Just Harmless Water Vapor?

Have you ever sat across an individual at a restraint smoking an electronic cigarette and wondered if you were in danger? Electronic cigarettes have gained considerable attention since their American market introduction in 2007. E-cigarettes are devices intended to mimic the conventional cigarette, containing a cartridge filled with a nicotine-laced liquid that is vaporized by a battery-powered heating element. Manufacturers claim it to be a safer alternative to the conventional cigarette, however, they are not required to disclose the ingredients present in the vapor inhaled and exhaled by the user. This information is critical to evaluate the health risks for the both the users and those around them. Therefore, in order to provide more information to the individual smoker, as well as the general public, I've conducted a systemic review of recent research, focusing on acute exposure, nicotine delivery and health effects. Is it just harmless vapor? Come find out!



Katie Stewart (Accounting/Finance and Economics)

Asti Evans (Accounting and Finance)

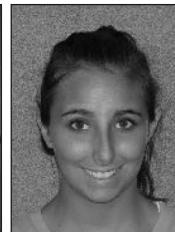
Ella Boothby (Finance and Human Resources)

Faculty Sponsor: Patricia Matthews, Department of Economics, Accounting and Business Administration

10:00 a.m., Bracy Hall, Room 06

Top Down Exploration of Investment Opportunities

A top down research approach to the current economic state can reveal hints to timing and investment potential. This project applies economic and technical analysis of past and current trends in the United States' economy with a concentration on the computer hardware manufacturing industry; specifically Apple, Hewlett-Packard, and Diebold. This exploration resulted in conclusions on investment options for a unique industry.



Formal Presentation Abstracts

Julia Kurek (Psychology)

Jessica Jamison (Psychology)

Hannah Rothgery (Psychology)

Peter Lannan (Psychology)

2:10 p.m., Engineering and Business Building, Room 203

Faculty Sponsor: Kristine Turko, Department of Psychology

The Effects of Social Stories on Performance in the Typical Population as a Means of Preparation

A social story is a visual aid using descriptive, direction, perspective, and affirmative statements that present a step-by-step analysis of the outcome of a particular situation or event. They are used to help individuals with disabilities prepare for a task and they are used to reduce the anxiety level of the individual. Social Stories, as a means of preparation, have never been utilized on the typical population. Therefore, the purpose of this study is to see if Social Stories, as a form of preparation, can be used on the typical college population to reduce anxiety and positively affect their performance on a given task. Our experiment investigated the effect preparation has on the outcome of a given performance. Specifically, a Social Story was used as the particular form of preparation and was tested on the typical college population. Participants were asked to play a computer game that measured accuracy, as well as fill out a short questionnaire regarding their general level of anxiety.



John Laux (Civil Engineering)

Jeremy Walker (Civil Engineering)

Mitchell Phillips (Civil Engineering)

Amanda Turner (Civil Engineering)

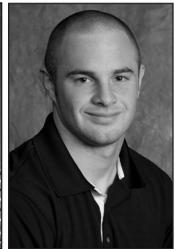
Matthew Zalaskalns (Civil Engineering)

10:00 a.m., Tolerton and Hood Hall, Room 100

Faculty Sponsor: Osama Jadaan, Department of Engineering

The Hull Well Pad Design Project

One of the biggest booming topics related to Civil Engineering recently is the natural gas and oil drilling in the North East. This new discovery of oil and natural gas in Ohio has enormous economic benefits and has the potential to push our country to be more self-sufficient in obtaining our own forms of energy. As a senior Civil Engineering class, Utica Oil and Gas Co. has asked our class to determine the feasibility of drilling at a site located in Carroll County, Ohio. The project consists of five parts of design which include a Sediment and Erosion Control, Haul Route, Well Pad access drive, Well Pad, and an Alternative Haul Route. All of these aspects have been designed to engineering standards using the computer program AutoCAD Civil 3D. To determine the best design of our project, a cost estimate was performed as to which design will be the most cost effective, which is a major concern of our client.



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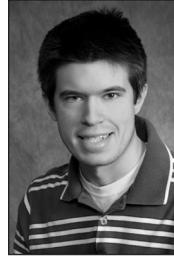
Jeffrey Looker (Integrated Media)

Faculty Sponsor: Mark Bergmann, Department of Communication

4:10 p.m., Engineering and Business Building, Room 203

Is the Future of Radio Doomed to Dead Air?

This video documentary explores the evolution of local radio and how its very existence is being threatened by technology and corporate greed. Local radio personalities Jeff Kinzbach, Joe Cronauer, Kayleigh Kriss and others share their thoughts and insights on the future of terrestrial radio and how it can be saved from extinction. Whether you are a fan of classic rock, country, today's hits, or talk radio, your favorite station may be in jeopardy. Learn how your local station can be saved and what can be done to help preserve this crucial form of broadcast media.



Emily Loosli (Biochemistry)

Faculty Sponsor: Robert Woodward, Department of Chemistry and Biochemistry

3:50 p.m., Tolerton and Hood Hall, Room 100

Designing More Effective Antibiotic Screening

It is estimated by the Centers for Disease Control and Prevention, that 70% of bacteria that cause infections are resistant to at least one antibiotic. With antibiotic-resistance on the rise, new potential targets are being investigated. One such target, known as LpxC, helps to construct the protective outer layer of Gram-negative bacteria known as lipopolysaccharide, or LPS. This enzyme is responsible for catalyzing the second step of the biosynthesis of lipid A, a key component of LPS. The natural substrate of this enzyme is needed to screen for antibiotics. Unfortunately the LpxC natural substrate is very expensive and purchasing the natural substrate for use in the laboratory is not an option. Therefore, the synthesis of the natural substrate is currently being performed. This presentation will include a brief discussion about antibiotics, antibiotic resistance, purpose of this research, and progress that has been made towards the synthesis of the natural substrate.



Mel Mason (Religious Studies and Communications)

Joy Raub (Religious Studies and Sociology)

Wilma Levengood (Religious Studies and Art)

Jamie Laubacher (English)

Anthony Walsh (Religious Studies)

Faculty Sponsor: Nicole Johnson, Department of Philosophy and Religious Studies

3:50 p.m., Kolenbrander-Harter Information Center, Room 013

"Exploring Connections: Religious Commitments and Perspectives on Nonviolence"

Are religious people more committed to nonviolence than non-religious people? If peace is a desirable value, how do peace-able attitudes and perspectives develop in individuals? This project begins by investigating whether commitments to nonviolent belief, practice, and lifestyle are stronger in Mount Union juniors and seniors who identify as non-religious versus those for whom Christianity is central to self-identity. Findings from a survey comparison generate questions about the capacity of Christianity to educate



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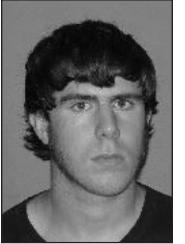
John Alex Simpson (Psychology and Communications)

Faculty Sponsor: Sarah Torok Gerard, Department of Psychology

1:50 p.m., Kolenbrander-Harter Information Center, Room 013

The Legacy of Dr Philip Zimbardo

Have you ever wondered why so many people appear so eager to engage in acts of violence? Are you curious as to why and how situations such as the Holocaust and the My Lai massacre occur? Inquiries about how ordinary citizens act in such sociopathic ways are discussed in this study about Dr. Philip Zimbardo and the Stanford Prison Experiment. In this study, acts of brutality that you would only accuse sadists of committing are examined and explained using situational behavioral theories. Furthermore, this study provides techniques to recognize and resist blind obedience and the resulting behaviors.



Amber Slotta (Exercise Science)

Sarah Gliatta (Exercise Science)

Faculty Sponsor: Lonnie Lowery, Department of Human Performance and Sport Business

10:20 a.m., Bracy Hall, Room 04

The effects of a resistance training protocol versus an endurance training protocol on body composition in college aged students.

The quickest way to losing weight and becoming healthier is now an everyday interest. Weight control through exercise has become a popular tool in controlling diseases, both physical and mental. Therefore, the purpose of this study is to determine the effects of two types of training individually on body composition and weight. Subjects include 16 women, who are relatively inactive. Subjects will be assigned randomly to one of three groups following different exercise protocols for a seven week period: A resistance training group, an endurance training group, or a control group. Both the resistance training and endurance groups will exercise four times per week for one hour. Body composition results will be measured using ultrasound, waist to hip ratio, and the BodPod. To maintain equitable effort, subjects will also report Rate of Perceived Exertion scale ratings during each workout. It is expected that both groups will significantly improve body composition compared to the control group, in whole body percent fat or in local, millimeter fat reduction. Further, the resistance training group will significantly improve body composition compared to the endurance training group. In conclusion, the results will help determine the best type of training to do for improving body composition.



Sabrina Smith (English)

Faculty Sponsor: Michelle Collins-Sibley, Department of English

2:10 p.m., Tolerton and Hood Hall, Room 100

Two Equal Halves of a Whole

Have you ever been told that one gender is better than the other? Comments like "Girls can't throw" and "It is not manly for a boy to sew" are examples of stereotypes and some of the mild gender problems that still plague America. Conditions for women have gotten better since the days of Margaret Fuller and early feminism in America, but there is still so much we can learn from her ideas in "Woman in the Nineteenth Century." We can take these ideas and apply them to our own culture and cultures around the world. I analyzed Margaret's work and other scholarly thinkers such as Ralph Waldo Emerson in my research to find the true place for women in society.



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practice a vegan-lifestyle or eat a more traditional diet, everyone consumes food, therefore it is important to be knowledgeable in order to make better decisions based on research rather than assumptions at the market.

Kayla Santana (Exercise Science)

Jackie Profera (Exercise Science)

Rachael O'Hara (Exercise Science)

Faculty Sponsor: Kelsey Scanlon, Department of Human Performance and Sport Business

3:30 p.m., Engineering and Business Building, Room 206

The Dehydration effects of Caffeine in College aged Females.

Caffeine is a stimulant that increases alertness and decreases fatigue. These effects coupled with the diuretic effect have made caffeine a drug used in research as an ergogenic aid in exercise performance. However, the lack of research utilizing female participants inspired us to focus on how caffeine specifically affects dehydration in college-aged recreationally active females. Subjects ingested 16oz of coffee (~300mg caffeine) during one trial, and 16 oz of water in the second trial an hour before after they ran on a treadmill at their individual predicted speed based on their one mile run pre-test for 30 minutes. Subjects had their urine specific gravity via a urine refractometer taken as well as their fat free mass measured via the Bod Pod in order to measure the dehydration effects of the stimulant. Data collection was not completed at the time of writing, but final results will be displayed during the presentation.



Brittany Schossler (Psychology)

Christina Sickinger (Psychology)

Scott Manusakis (Psychology)

Austin Mercer (Psychology)

Faculty Sponsor: Kristine Turko, Department of Psychology

10:20 a.m., Tolerton and Hood Hall, Room 100

The Effects of Visual Stimuli on Reaction Time and Accuracy in Athletes and Non-Athletes

Abstract: Are you aware of how efficient you are at responding to different visual signals? In this study, we examine two different forms of visual stimuli and the ability of participants to react quickly and accurately to these stimuli. We are looking for differences between athletes and non-athletes. This study is conducted using the E-Prime program to present a visual simulation. In this study, we hope to find that athletes will perform more quickly and more accurately at the simulation than non-athletes. The results of this study may be helpful for both coaches and athletes, as responses to visual stimuli are a large component of athletic training.



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adherents toward nonviolent commitment and practice. The project also explores the foundations and motivations, religiously-based and otherwise, for students' commitments to nonviolence and related social issues. The findings from qualitative interviews with individuals who identify highly as "nonviolent" are important to the work of peace education generally and to the intersection of peace education and religious studies in particular.

Madeline McClellan (Literature and French)

Faculty Sponsor: Michelle Collins-Sibley, Department of English

10:20 a.m., Kolenbrander-Harter Information Center, Room 013

Connecting Chains: Communal Narrative Aspects in Twelve Years a Slave

Solomon Northup's narrative *Twelve Years a Slave* tells the story of a free black man who was kidnapped, sold and endured twelve years of slavery before finally regaining his freedom. The narrative, however, goes beyond Northup's story and by using the elements of self-defined by community and an oral history that are typical of African culture, Northup creates a collective narrative that encompasses and shares the stories and lives of many slaves. In this presentation I will discuss the use of orality, oral elements and traditions, and communal narratives as they pertain to creating a more complete and comprehensive look at the institution of American slavery to fully convey the true horrors of slavery while portraying the sense of community and interdependent lives that were so prevalent amongst slaves.



Kaylin McCue (MAEL)

Faculty Sponsor: Jennifer Martin, Department of Education

10:40 a.m., Kolenbrander-Harter Information Center, Room 013

Isn't Math Hard Enough?: Adopting the Common Core State Standards

According to the latest trends in education, our current mathematics curriculum it is not adding up to international competition. As a result, the state of Ohio is joining a large portion of our country in adopting the Common Core State Standards for the 2014-2015 school year. The concern for students, parents, and teachers alike is: how will the transition to the Common Core State Standards affect the face of high school math classrooms in Ohio? Data were collected from scholarly articles, interviews with members of the Ohio Department of Education, and current high school teachers and students. I have found that the transition will not be an easy one, requiring new materials, redesigning units, an increase in technology and a level of thinking with which most of Ohio's students have yet to have been challenged.



Megan McMinn (Biology)

Faculty Sponsor: Bertrand Landry, Department of Foreign Language and Cultures

Alienation and Immigration: The Question of Preservation of National Identity.

There is one paramount truth that surrounds all nations: The modern scope of national identity has been molded through the historical lens of immigration. Although each country experiences immigration differently, it has shaped entire populations, and has created friction in the realm of maintenance of a national identity. Today, there is a call for reform. This change takes on many cultural and political issues that the majority of nations and individuals face currently. Maintaining a balance between the national identity and diversity of a country is imperative. A cross cultural examination of reform progression was conducted in order to show that any nation can learn from the triumphs and failures of another. The nations explored—France, Quebec, and the United States—need to take initiative to look at the historical, political and sociocultural issues that each face in relation to immigration reform and maintenance of national identity.



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Shelbey Mitchell (Psychology)

Andrew David Budendorf (Psychology)

Krista Leighty (Psychology)

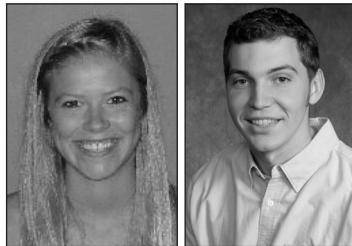
Jessica DeWater (Psychology)

Faculty Sponsor: Michael Knepp, Department of Psychology

1:30 p.m., Engineering and Business Building, Room 206

The influence of comedy, deep breathing, and classical music on test anxiety and test improvement

Test taking has become important when measuring the knowledge and determining the future success of a student. It is rarely acknowledged that testing may not be an accurate measurement of ability, particularly when a student possesses test anxiety. 60 participants were placed into one of three groups to take two math exams with a relaxation techniques administered in between. The researchers investigated which technique between deep breathing, humor, and soothing music is the most effective in reducing anxiety levels and improving math test scores. The expected findings were that students in the humor condition would have the highest reduction in anxiety and largest increase in test scores. Results from this study will provide information on the best relaxation technique to reduce anxiety, improve test scores and ultimately benefit the field of psychology and academic world. This study will assist students in achieving their full potential on exams without test anxiety.



Morgan Meyers (Neuroscience)

Stephanie Hillensbeck (Psychology and French)

Britanny Lyons (Psychology)

Victoria Machan (Psychology)

Annaleise Lessick (Psychology)

Faculty Sponsor: Michael Knepp, Department of Psychology

3:50 p.m., Bracy Hall, Room 06

The effects of inducing stress and motivation on physical performance and heart rate.

Induced mental states, such as stress or motivation, can affect physical performance both negatively and positively. The same mental states can have an impact on physiological outputs, such as heart rate (Mullen, Faull, Jones, & Kingston 2012). This study used time restraints, task goals, negative feedback, and reward to look at the effects of mental states on physical performance and physiological outcomes. Fifty-nine participants were placed into four groups: stress, motivation, a combined group, and a control group. The effects of stress and motivation were looked at by shooting basketballs and collecting ECG data. Inducing stress or motivation did not have an effect on performance, ($p > .01$). The physical task caused a significant change in mean heart rate ($F(3,55) = 70.172, p = .000$). The hypotheses were not supported, and showed that the number one factor in heart rate was physical activity, not induced mental states.



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Caitlin Reash (MAEL)

Faculty Sponsor: Jennifer Martin, Department of Education

1:50 p.m., Engineering and Business Building, Room 206

TEACHnology: Changing How We Communicate and Collaborate

TEACHnology: Changing How We Communicate and Collaborate Would you consider yourself digitally literate? As technology shapes societal changes, schools and businesses are implementing numerous technology-based programs to keep up with the trend. How can organizations utilize up to date communication techniques to offer training and support necessary to lead to sustainable change? During my practitioner action research, I collected data through surveys and interviews and determined support and training was needed for new technology-based programs being introduced at my school. As a response, I created online support through screencasts, presentations, and a voicethread to increase communication and collaboration. While this is an ongoing program, attitudes and understanding of the new technology have already improved, and participants were introduced to a number of innovative communication techniques that peaked their interest. This project took place in a school, but has implications in any organization that provides training and wants to expand communication and collaboration.



Abigail Reigle (Economics, Writing and Applied Criminal Justice)

Faculty Sponsor: Xiaoshu Han, Department of Economics, Accounting and Business Administration

2:10 p.m., Bracy Hall, Room 06

Medical Malpractice Litigation's Contribution to Healthcare Costs: An Economic Analysis

Most Americans would agree that healthcare spending has spiraled out of control and reached unsustainable levels, but what's causing it? One potential factor is that physicians may be facing an increasing number of medical malpractice claims and, theoretically, their malpractice insurance companies raise premiums due to increased litigation costs. Physicians may pass on these increased costs to consumers by raising their own prices. Or physicians may move to a location with more lenient laws or even stop practicing altogether. Many types of reform have been proposed, and some have even been enacted, but are they successful? To help answer these questions, I reviewed scholarly journal articles from several fields, including economics, law, and healthcare. While there was some disagreement among scholars about the most effective reforms, it is clear that the malpractice system, and the economy, could benefit from increased transparency and communication between physicians and their patients.



Michael T. Ruhlin (Physician Assistant Studies)

Faculty Sponsor: Brook Gram, Department of Physician Assistant Studies

3:50 p.m., Engineering and Business Building, Room 203

An Analysis of Health Benefits In Organic Foods

A non-organic apple costs \$1.99/ pound as opposed to an organic apple that cost \$2.99/ pound. What difference justifies this staggering 50% increase in price? Consumers often perceive that an organic diet is superior than a diet consisting of traditionally raised food; but is there fact behind their reasoning? Benefits such as reduced allergenicity, cancer prevalence and other advantages are thought to be gained from an organic diet. A systematic review of scholarly literature was conducted on Medline Complete and while a potentially meaningful difference exists between organic and conventionally raised food, the clinical relevance in health at this time in research is inconclusive. Whether you



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Gabriella Pishotti (Writing)

Faculty Sponsor: David Thiele, Department of English

10:40 a.m., Bracy Hall, Room 06

Sex Sells... Even the Supernatural Kind: Connecting Bram Stoker's Dracula to Victorian Prostitution

Recently, vampires have been resurrected as a pop culture phenomenon. As a supernatural creature that often oozes seduction, it's no wonder that today's sex-obsessed society has become enthralled by these creatures of the night. The vampires in Bram Stoker's Dracula are no exception to this sexualized role. In fact, after analyzing Dracula and researching its original context, I argue that Dracula serves as Stoker's commentary on Victorian prostitution. Through his work, Stoker supports the punishment of prostitutes while suggesting that men are just as guilty for prostitution as the women. My presentation will give insight into the implications of Stoker's work as well as compel members of the audience to analyze their own views (or the views of their society) on prostitution, a societal taboo which has fallen from notice in today's modern world.



Gabriella Pishotti (Writing)

Faculty Sponsor: Michelle Collins-Sibley, Department of English

3:30 p.m., Engineering and Business Building, Room 203

Girls Just Wanna Have Some – Presence in History, That Is

Ever wonder why American textbooks only seem to talk about dead, white guys? Where is everyone else while they are off riding their white steeds and rescuing America from her fire-breathing British invaders? The truth is there were plenty of damsels not in distress who also played a part in establishing our country today. However, these women are often left out of history. For my research, I compared earlier histories of women during the American Revolution with more modern histories of women from this era. After analyzing several books and articles, I have found a large shift in perspectives about women, and that their lack of presence in history directly correlates with their past oppression. By realizing women's absence in history during the Revolutionary War, greater efforts can be made to pay attention to women's history, helping to give them a stronger voice in the past, today.



Kevin Princic (Japanese and International Studies)

Faculty Sponsor: Hamako Furuhashi-Turner, Department of Foreign Language and Cultures

3:50 p.m., Bracy Hall, Room 04

"Japan vs China: A Historical Explanation of Japan's Perspective"

Recently, Japan and China have been feuding over a set of islands that lie between the two nations. They are called the Senkaku Islands in Japanese. Japan and China have a very long history full of violence and bloodshed that further complicates their relationship. Currently, both countries are claiming ownership of the islands without any sign of giving them up. What truly spurred the dispute was the Japanese government purchasing the islands from a private owner in 2012. This led to claims of ownership by China and increased military presence from both countries around the islands. Explaining Japan's view point on this issue is important because as outsiders watching this situation transpire, it is difficult for us to understand the context of the relationship between Japan and China. Through interviews, surveys and academic journals I will explain a Japanese perspective on this dispute and their opinions on China.



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Rachel O'Connor (Early Childhood Education and Japanese)

Faculty Sponsor: Hamako Furuhashi-Turner, Department of Foreign Language and Cultures Department

1:50 p.m., Bracy Hall, Room 06

Untying the Knot: Reactions to Increasing Divorce Rates in Japan

In recent years, divorce has become more prominent in America, but what about in other countries? The focus of this study will take you halfway around the world to Japan where both divorce culture and family values appear very different from our own. I will be presenting my research based on my translation of a Japanese graphic novel and movie as well as on recent texts and interviews with Japanese students to provide an authentic explanation of how divorce culture in Japan is changing in relation to Japanese family values.



Kalyn Peck (Physics and Computer Science)

Secilia Dunkerton (Computer Science, German and Japanese)

Emily Stafford (Information Systems)

Faculty Sponsor: Steve Cederbloom, Department of Physics and Astronomy

1:30 p.m., Bracy Hall, Room 04

A Telescope Named JARVIS

Since ancient times, the study of the nighttime sky has been a consuming passion of scientists, philosophers and humanity. However, the weather has constantly been a limiting factor in studying the cosmos, especially in Ohio. Hours of preparation can be wasted by the appearance of a single cloud. Enter JARVIS, an automated far-field telescope built using a lens, CCD camera and PVC pipe. JARVIS will allow users to remotely check the weather, track key stars of interest to an individual, and use precise measurements to photograph the heavens. The main intelligence that drives JARVIS is the Raspbian operating system running off a Raspberry Pi that monitors circuits measuring cloud cover and rain while also running servo-motors to position the telescope. JARVIS can save students and professors hours of time, while letting them focus on what's truly important: the celestial sky.



Jesse Phillips (Writing and Religious Studies)

Faculty Sponsor: Frank Tascone, Department of English

10:00 a.m., Bracy Hall, Room 04

Don't Be Good for Nothing

Your career isn't necessarily your vocation. Being good for something doesn't mean you have to land the big-money job or find the dream career. Many college graduates feel the despair of their impending graduation and experience the pressure of finding THE job instead of feeling encouraged to do many things that are fulfilling, meaningful, good. My experience at a local non-profit ministry called Men's Challenge helped me to articulate the fear that many people my age face: "What am I going to do with my life?" Join me, a simple writer, as we discuss blue-collar poetry, Shaker music, memories of dad, the etymology of certain words, and a very special nun. Don't fret over doing well. Don't be good for no good reason. Don't Be Good for Nothing.



SCHOLAR Day Activities

April 22, 2014

9-9:45 a.m.	Poster Session I, Bracy Hall (Breakfast foods will be served.)						
10-11 a.m. Presentation Session I	Start	Bracy 04	Bracy 06	T&H 100	KHIC 013	EBB 203	EBB 206
	10 a.m.	Writing Jesse Phillips	Business Katie Stewart Asti Evans Ella Boothby	Engineering John Laux, Jeremy Walker, Mitchell Phillips, Amanda Turner, Matthew Zalaikalns	Psychology Logan Cook, Carly Mihalic, Levi Simmons	MAEL Renee Beeker	Foreign Language Megan McMinn
	10:20 a.m.	Exercise Science Amber Slotta, Sarah Gliatta		Psychology Brittany Schlosser Christina Sickenger A. Mercer S. Manusakis	English Madeline McClellan	Engingeering Kristin Gromes, Shannon Guernsey, Alina Selby	Physician Assistant Anne Sommerfeld
	10:40 a.m.	Faculty/Staff Alumni Panel	English (Thiele) Gabriella Pishotti	History Abigale Benninghoff	MAEL Kaylin McCue	Physician Assistant Jamie Hodes	Engineering Cy Guertal, Neal Seaman, D. Luzar, B. Pike
11:30 a.m.-12:30 p.m.	Senior Recognition and Honors Convocation,						
12:30-1:30 p.m.	Picnic Lunch for Participants and Guests, Tented Area in the Quad						
1:30-2:30 p.m. Presentation Session II	Start	Bracy 04	Bracy 06	T&H 100	KHIC 013	EBB 203	EBB 206
	1:30 p.m.	Physics/ Astronomy Kalyn Peck, Secilia Dunkerton, Emily Stafford	Education Amber Veverka, Alex Williamson	Writing Amanda Cameron	Chemistry Rebecca Gibson	Physician Assistant Emily Riesenber - Woodall	Psychology Shelby Mitchell, Andrew Budendorf, Krista Leighty, Jessica DeWater
	1:50 p.m.	Physician Assistant Alexander Bittner	Foreign Language Rachel O'Connor	Exercise Science Angela Cox, Dakotah Young	Psychology John Simpson	Writing Marc Cibella	MAEL Caitlin Reash
	2:10 p.m.	H.P.S.B. Jenna Balazs, G. Zilker, M. Trissel, K. Vellente, K. Fields	Business Abigail Reigle	English Sabrina Smith	Exercise Science Christian Klinec, Josh Winn	Psychology Julia Kurek, Jessica Jamison, Hannah Rothgery, Pete Lannan	Physician Assistant Julie Spehar
2:30-3:15 p.m.	Poster Session II, Bracy Hall First Lobby and Second Floor Lobby						
3:30-4:30 p.m. Presentation Session III	Start	Bracy 04	Bracy 06	T-H 100	KHIC 013	EBB 203	EBB 206
	3:30 p.m.	Physician Assistant Alyse Bryson	Business Carisa Bohnak	Honors - English Sara Fountain	History Caitlin DiCresce	English (Collins - Sibley) Gabriella Pishotti	Exercise Science Kayla Santana
	3:50 p.m.	Foreign Language Kevin Princic	Psychology Morgan Myers, Stephanie Hillensbeck, B. Lyons, A. Lessick, V. Machan,	Chemistry Emily Loosli	Religion Melinda Mason, Joy Raub, Wilma Levensgood, Anthony Walsh, Jamie Laubacher	Physician Assistant Michael Ruhlin	Education Stephanie Toppel, Madeline McClellan, Ashley Chittenden, J. Winkelman, S. Furr
	4:10 p.m.	Biology Brooke Benner	Physician Assistant Shane Duda	Psychology Jeffrey Yoza, Brett Stoll, Diony Jasmin		Communication Jeff Looker	Writing Kyle Dreger