



Carolyn M. Small Honors Program

Spring 2015
April 10th
9am-5pm

Carolyn M. Small Honors Program Spring 2015 Symposium

Thank you to all judges, advisors and students for all of the hard work that you have put into this year's Honors Symposium. Without you, this event would not have been possible.

All posters will be displayed from 9:00 AM-4:00 PM in Hubbard Banquet Room in Serrick. Presenters will be available for questions during the 60 minute time slots shown within. Also, the number that appears in brackets is the poster location number.

The oral presentations will be held in the Buchman Board Room every half hour beginning at 9:00 AM and ending at 5:00 PM.

**denotes a member of the Carolyn M. Small HONORS Program.*

Congratulations to all presenters at the Spring Honors Symposium!

Oral Presentations:

Location: Buchman Board Room

9:00 Kelsey Bowling

1:00 Keira Grandey

9:30 Brittany Pease

1:30 Katelyn Haydett

10:00 Kenneth Miller

2:00 Toni- Ann Ledgister

10:30 Susanna Stoepfel

2:30 Jade Spangler

11:00 Philip Balla

3:00 Devan Piehl

11:30 Break

3:30 Ian Fasnacht

12:00 Lindsay Kasmer

4:00 Ceresa Page

12:30 Catlyn Pavel

4:30 Rachel Davis

Poster Presentations:

Location: Hubbard Banquet Room

9:00am

Zach Roush
Megan Davis
Abby Taylor

Caroline Hesterman
Chelsea Bell
Emily Kauble

10:00am

Braden Perry
Susan Korecki
Chelsea Bell and Zach Roush

Courtney Alexander
Ashley Tompkins
Debra Mastroni-Kenyon

11:00am

Melina Alexander
Tom Woehnker
Alyson Siebert
Braden Perry

Melissa Waskeiwicz
Taylor Haydinger
Jade Spangler

12:00pm

Mark Goebel
Damian Koester
Kayleigh Vicknair

Elias Jimenez
Meredith Shank
Claire Turner

Poster Presentations Continued:

Location: Hubbard Banquet Room

1:00pm

Ashley Williams
Bradly Matson
Alexis Walker

Denique Dennis
Tramel Chandler
Amoy Russell

2:00pm

Elizabeth Pienoski
Tabitha Del Carmen
Joseph Niehaus
Michelle Bulriss

Samantha Russell
Catherine Tilman
Spencer Saunders

3:00pm

Remick Pearson
Joseph Carpenter & Kayla Bierley
Kristian Woolace
Tory Savage

Cheryl-Ann Francis
Lindsay Kasmer
Sydney Unger

Oral Presentations

9:00 am

Kelsey Bowling- Impact of academic self-efficacy on help-seeking behavior in an academic learning community among college students

Presentation Advisor: Professor Deborah Dalke

The present study explored the impact that students' confidence in their ability to complete academic tasks (academic self-efficacy) has on their use of the campus academic support services. College students (N = 80) were asked to report how often they voluntarily sought help with writing, reading, or with one of the tutors at the resource center. Participants also completed a standard assessment of academic self-efficacy. The hypothesis that academic self-efficacy would be positively correlated with frequency of help seeking was not supported, $r(80) = -.006$, $p = .960$. Additional statistical analyses suggested that student GPA was correlated with both level of academic self-efficacy $r(80) = .357$, $p = .001$ and help seeking behavior $r(80) = -.225$, $p = .044$. The study was limited by its small sample size. Future researchers may want to increase the sample size to potentially impact marginally significant results.

9:30 am

Brittany Pease*- Elderly Fall Prevention Protocol

Presentation Advisor: Professor Ryan Crandall

Falls by senior citizens is one of the most common injuries. A fall for an elderly person can be very traumatic, and complications from a fall can result in death. This protocol will go into detail about how to best prevent falls in the elderly population.

10:00 am

Kenneth Miller*- Colitis, Exercise, and Diet

Presentation Advisor: Professor Timothy Rickabaugh

I am going to discuss the different forms and symptoms of colitis, along with the different effects that colitis has on a person's body in regard to exercise and diet suggestions and restrictions. Along with that I will present on information gathered through talking with a 17 year old female colitis patient.

10:30 am

Susanna Stoepfel*-A Nicaragua Canal: A Blessing or a Curse?

Presentation Advisor: Professor Alesia Yakos-Brown

This presentation will cover the topic of the potential of a Nicaragua Canal. This is currently a hot topic in Nicaragua with valid points coming from both sides. Benefits and detriments of the construction of a canal will be discussed especially in relation to economy, trade, ecology and public opinion.

11:00 am

Philip Balla*- Learning and Teaching about Theravada Buddhism

Presentation Advisor: Professor Marian Plant

This presentation will cover the results of a senior ministry studies capstone that has involved presenting and analyzing the results of ethnographic research conducted to understand Theravada Buddhism in Cambodia. It will also discuss the ways in which these results affect the goals of the McMaster School and inform conversations about comparative theology and inter-sectarian religious structures.

11:30 am

Break

12:00 pm

Lindsay Kasmer*- Motivation and productivity within the work environment

Presentation Advisor: Professor Kristin Sorensen

This presentation will identify effective ways to motivate employees in a work environment, as well as the common stumbling blocks that hinder worker productivity.

12:30 pm

Catlyn Pavel*- American Eugenics movement

Presentation Advisor: Professor JoAnn Burkhardt

The presentation will discuss the American Eugenics movement and the impact that it has had on the American society. The presentation will also examine what the Eugenics movement is as well as the individuals who helped to spark and encourage its progression. Many people may not have heard of the American Eugenics movement and this presentation hopes to inform and enlighten people about some of the aspects of the American Eugenics

movement. Included in this presentation will be an examination of the societal context and the decline of the Eugenics movement

1:00 pm

Keira Grandey*- Elvis Presley and Gender Stereotypes
Presentation Advisor: Professor Todd Comer

Many times in Rock and Roll humans, especially women, ended up being objectified and categorized. I will focus specifically on Elvis Presley's contribution to Rock and Roll and how his music contributed to this objectifying.

1:30 pm

Katelyn Haydett*- Worry Free Water
Presentation Advisor: Professor Jeremy Taylor

As the Tanzania McMaster team prepares for their return this year, they have only one thing on their mind... WATER! While a variety of projects going over will address different aspects such as quality of life, water education, women's empowerment, and microscope instruction, the projects all relate around attaining clean, accessible and safe drinking water for the community partners in Katungulu. This presentation will explain the water testing that will be completed, as well as previous water testing results and how this information will help the McMaster team establish a water purification system. In addition, a comparative analysis of fundraising techniques will be addressed as the team works to fundraise for the "DC Shave the Stache" campaign that will go towards the purchase of a permanent water purification system. Stop by to hear how the McMaster team is working to make Worry Free Water possible in Tanzania!

2:00 pm

Toni-Ann Ledgister*- The development of Domestic violence laws and changes being made today
Presentation Advisor: Professor Steven Sondergaard

During the past 30 years, the criminalization of domestic violence has developed. The development is credited mainly to the movement of feminists and feminism. The movements led to the implementation of mandatory arrest laws and hard no-drop policies. Over the years many police departments and states have adopted the theses laws and policies. There are however some persons who advocate against the use of these laws as some believe they do the same thing domestic violence does to the victims; that is, take away their power and their

autonomy to make their own decisions of wanting to press charges or not. Due to the ever changing time there is also ever changing policies and as a result, today people have adopted the policy or policies they deem more fitting to combat the issue of domestic violence. The solutions that have been proposed are also being adopted and their efficiencies are being tested. The proposed solutions include the three pronged method of using preferential arrest, educating officers and treating batterers. Things in the realm of law will always be changing but with the cooperation of the law enforcement and the other members of the criminal justice system there will be less cases of the complex issue of domestic violence in the future.

2:30 pm

Jade Spangler- Knowledge of Schizophrenia
Presentation Advisor: Professor Deborah Dalke

My study was conducted to explore knowledge and beliefs about schizophrenia. The participants were 56 business and 20 education majors at a small private college. In the first part of the survey, participants read two vignettes that described a person experiencing the symptoms of an unnamed mental disorder. One vignette described the symptoms of schizophrenia and the other described the symptoms of dissociative identify disorder. Participants were asked to identify which set of symptoms were those of schizophrenia. The participants then answered questions about common stereotypical beliefs about schizophrenia. My key hypothesis was that more education majors than business majors would correctly identify the vignette with schizophrenia was not supported, $X^2 (N = 86) = .2.08$, $p = .150$. I also found that participant's self-reported level of knowledge was not correlated to their rating of the dangerousness of people with schizophrenia, $r (86) = .095$, $p = .384$.

3:00 pm

Devan Piehl-The History of Fort Defiance
Presentation Advisor: Professor Jeremy Taylor

My oral presentation will include a history of Fort Defiance, the creation, the battles, etc. There may also be a small part of my presentation that will include the history of other parts of the Defiance area, however, it will still be of the same time period as Fort Defiance.

3:30 pm

Ian Fasnacht*-Understanding Celebrities Role in the ALS Ice Bucket Challenge
Presentation Advisor: Professor Chris Medjesky

By using a qualitative content analysis, I reviewed the videos of 50 celebrities who took the Ice Bucket Challenge and analyzed their level of focus on individual celebrity branding versus

charity activism. The level of charitable focus was analyzed on both Facebook and YouTube through a coding process reflecting multiple components of media interactivity including social media posts, comments, and the interactive video itself

4:00 pm

Ceresa Page*-Electrocardiogram and the use of miniature pacemakers
Presentation Advisor: Professor Paul Schumm

The topic of this project is electrocardiogram and the use of miniature pacemakers. The researcher will be investigating how the electrocardiograph (ECG) machine works. This research will provide an understanding of the heart's electrical activity. It will also provide information on how the ECG machine is able to identify a number of things such as: finding the cause of unexplained chest pain, the cause of symptoms of heart disease, such as shortness of breath, dizziness, fainting, or rapid, irregular heartbeats (palpitations), finding out if the walls of the heart chambers are too thick (hypertrophied), checking how well medicines are working and whether they are causing side effects that affect the heart, checking how well mechanical devices that are implanted in the heart, such as pacemakers, are working to control a normal heartbeat and finally checking the health of the heart when other diseases or conditions are present, such as high blood pressure, high cholesterol, cigarette smoking, and diabetes. Additionally this research will provide information on the use and effectiveness of miniature pacemakers which are one-tenth the size of a conventional pacemaker.

4:30 pm

Rachel Davis*-Teaching: Beyond the Academics
Presentation Advisor: Professor Rachel Eicher

When the topic of teaching comes up, academics are often the first thing that comes to mind. Teaching, however, is far more than just making sure students pass academically. For experienced teachers this may not be an issue. However, for a first year teacher, it is important to know and understand that teaching goes beyond the academics and into a realm of personal, emotional and life lessons.

Poster Presentations

9:00 am

Zach Roush*- Emergency care in Rural Belize [1]
Presentation Advisor: Professor Mary Ann Studer

In the rural community of San Carlos, Belize, I worked with the librarian on computer troubleshooting for computers that were sent down with previous scholars. Along with working beside the librarian, I also provided two copies of a troubleshooting manual to the library in the village. The rural community of San Carlos, Belize is located around three hours away from the nearest hospital. The importance of teaching the people of the rural community how to care for wounds and injuries is imperative especially since the village is located far way from a hospital. The village of San Carlos also lies on a lagoon so teaching water safety to the villagers is also important. The country of Belize also has eight know venomous snakes and knowing how to manage a snake bite that has the potential to be fatal, could potentially save the person's life.

Caroline Hesterman-Teaching Self-Esteem and Improving Health in Rural Belize [8]
Presentation Advisor: Professor Mary Ann Studer

Increased information on health and building self-esteem and confidence all play an important role on enhancing the human well-being of those living in Belize. Previously, in December of 2013, I traveled to Belize and implemented self-esteem building activities in the village of San Carlos. These activities provided me with an immense amount of positive feedback. Being on the ground and interacting with the children helped to support some of my research that health as well plays an important role on ones self-esteem (Hutkin, 2014). I believe I gained a better understanding of the attitudes that people in San Carlos have about health. In addition with that I also educated women in San Carlos about breast cancer, emphasizing early detection through self-breast examinations as well as supplying them with information to resources available to them. I believe through my implementation of health education, self-esteem activities and cancer awareness I aided in advancing the well-being of the women in San Carlos, Belize.

Megan Davis-Applicable Skill Development and Promotion of Parental Involvement in Rural Belize [15]
Presentation Advisor: Professor Mary Ann Studer

The purpose of my project was to educate primary school students on the science of soil. This partnership with the teachers, students, and community of San Carlos helped to develop a connection between the school and the families while teaching the students applicable skills in this predominately agriculturally based village. Parental involvement can lead to numerous educational, emotional, and social benefits. In addition, the lessons I taught corresponded to applicable skills the students could use in the real world.

Chelsea Bell-Defiance College Crisis Management [22]

Presentation Advisor: Professor Steve Sondergaard

The purpose of this research is to determine the reaction and understanding in crisis management events. The study focused on various type of crisis'. Communication during those events is supposed to inform those affected. Evaluating the current communication methods and how the faculty and students would react to the message can help to determine if the communication is effective. Overall, the results from the survey taken by DC faculty and staff will be presented.

Abby Taylor*- Corporate Influence on Plastic [29]

Presentation Advisor: Professor Patricia Galdeen

As demonstrated in the documentary "Plastic Paradise: The Great Pacific Garbage Patch," the consumption of plastic is causing significant environmental problems such as destroying ocean reefs and killing wildlife. With the plastic manufacturing industry booming, human impact on the environment continues to rapidly progress with no foreseeable decline. Consumerism is the force behind plastic production, which puts the blame on solely buyers. But, shouldn't the corporations that are manufacturing plastic be held responsible as well? Corporations continue to make plastic products because consumers are buying them, even though they are aware of the effects of their products. Is it ethical for plastic manufacturing corporations to continue their production even though they are aware of the consequences? As consumers, what types of actions should we take to change this growing plastic trend?

Emily Kauble*- Importance of Water Quality Analysis [36]

Presentation Advisor: Professor Doug Kane

How important water quality analysis is. Here we are lucky we don't have to worry about the water we are drinking. We do have to worry about environmental impacts though. My poster will be about the importance of water quality analysis.

10:00 am

Braden Perry- Education in San Carlos, Belize [2]

Presentation Advisor: Professor Mary Ann Studer

Parents play an important role in preparing their child for education, but it is important that these parents are trained properly to do so effectively. This project focused on preparing the

mothers and librarian of San Carlos, Belize to effectively plan and carry out preschool lessons. Preparing the mothers of San Carlos to carry out preschool lessons will help them better prepare their children to enter Infant I, the first level of schooling offered in San Carlos, with knowledge and skills that will help them be more successful in their schooling.

Courtney Alexander*-Sex Trafficking in the United States [9]
Presentation Advisor: Professor Andrew Black

This research looks at which states within the United States have the highest amount of human trafficking for sexual purposes, as well as why it is easier for those states to have higher numbers of trafficking than other states. It also looks at what kind of people are targeted for this trade and why they are targeted for it. However, this research also analyzes what some states are doing in order to cut down the number of victims trafficked and the people that traffic them, such as passing new laws and offering training to spot trafficked people. The methodology involves using police data to find which states have the biggest problems with this trade, and see how many pimp run brothels they have discovered, how many sex traffickers they have arrested, and how many victims were found and reported. These numbers will go into charts for comparison, and that will help to conclude which states really do have the highest amount of human sex trafficking problems.

Susan D. Korecki- Religious Literacy: Crossing the Bridge to Understanding [16]
Presentation Advisor: Professor Marian R. Plant

Religions around the world are an integral part of thoughts and decisions made in politics, economics, foreign policy, social interactions, and even the arts. With this knowledge the question addressed is, "If religious literacy bridges understanding why do many Christians choose to remain religiously illiterate?" Research was collected from data results published from the U.S. Religious Knowledge Survey of 2010. Added to this is information acquired from literature based on society's knowledge of world religions and information about issues with possible connections to a lack of understanding of world religions. The results show a definite disconnect in understanding the importance of this knowledge to relations within the U.S. and worldwide. There are also several insights into why these practices are present. As we acknowledge and better understand how the lack of "religious literacy" affects understanding and communications we can move forward in fixing the problem. By integrating practices of teaching, learning, and dialogue we can bridge connections and understanding with other world religions.

Ashley Tompkins*- Meningitis: The What and How of the Disease [23]
Presentation Advisor: Professor Alyson Laframboise

The disease Meningitis is explored in depth, discussing the types, causes, symptoms, treatment, and prevention.

Chelsea Bell and Zach Roush- FAGIN (Facial Analysis to Gain Information Now) [30]
Presentation Advisor: Professor Tim Wedge

In the late 19th century, abolitionist E. D. Moore undertook the ambitious project of tearing apart King Leopold II's slave industry in the Congo Free State. In what should have been a hopelessly lopsided battle, Moore pitted himself against a monarch's powerful propaganda machinery, and a highly profitable rubber producing industry. To level the playing field, he employed a new technology, the magic lantern, or what we would call a slide projector, to visually display the atrocities of slavery to large audiences, and turning the tide of public opinion against a powerful monopoly. In the United States, more than 800,000 children are reported missing every year, nearly half end up living on the streets, 70% of those will become sex trafficking victims, most within their first 72 hours of living on the street. We propose the implementation of 21st century "magic lantern" that will identify and locate children being sold for sex online and bring them to safety. The FAGIN (Facial Analysis to Gain Information Now) will use existing facial analysis technology to recursively extract and compare images from online sex ads to images of missing children providing probable cause and admissible evidence sufficient to trigger intervention and investigation by law enforcement.

Debra Mastroni-Kenyon- Oneness [37]
Presentation Advisor: Professor Marian Plant

This presentation will show how the world religions of Christianity, Judaism, Islam, Buddhism, Confucianism, Hinduism, Sikhism, Jainism, Taoism, Baha'i, Shintoism, and Pawnee Native American are similar in their beliefs about "The Golden Rule", "Love Thy Neighbor", "More Blessed to Give Than to Receive", "Judge Not", "Love Your Enemies", and "There Are Many Paths to God" to foster not only acceptance of other faiths, but understanding.

11:00 am

Melina Alexander*- Water Quality Analysis in Rural Belize [3]
Presentation Advisor: Professor Mary Ann Studer

The United Nations state that there are 377 million people in Latin America without access to clean water ("Latin America and the Caribbean."). According to the CIA World Factbook the country of Belize's urban population has 98% improved access to drinking water and their rural population has 100% improved access ("World Factbook"). Improved access is defined

as “piped water into a dwelling, yard, or plot; public tap or standpipe; tubewell or borehole; protected dug well; protected spring; or rainwater collection” (“World Factbook”). Improved access is a broad term to be using for such a large amount of people and villages. Data has been collected from years 2004-2014 over the past ten years by McMaster Scholars on baseline water quality in San Carlos and surrounding areas. According to the data many of the previously stated water sources such as the wells and cisterns provide water that is not safe for consumption. From my own experiences in Belize I can attest to the fact that families are drinking out of chemically and biologically contaminated potable and environmental water sources. The villages may have ‘access’ to clean water such as bottled water, but that is a luxury not every person is capable of obtaining. The purpose of my project was to continue the ongoing water quality analysis of the New River Lagoon, its tributaries, as well as surrounding potable water sources with the end goal the hope of providing sustainable clean water to the village. The testing consisted of both chemical and biological tests, with the focus of assessing total water quality. I performed tests to collect data on nitrate nitrogen levels, orthophosphates, free chlorine, dissolved oxygen, pH levels, ammonia level and for bacteria harmful to the human body. The tests were done using the Hach Water Testing Kits. These tests have been conducted by previous McMaster scholars and I tested all the sites I tested in the 2012-13 and 2013-12 trips, as well as any newly requested sites. The information was collected and compiled and then conveyed to the community partners within San Carlos as well as Programme for Belize. Programme for Belize then transfers this information to the government entities that are responsible for public health.

Melissa Waskiewicz-Need for Interfaith Organizations [10]

Presentation Advisor: Professor Marian Plant

The people in the United States have a wide range of faiths and beliefs. Unfortunately, we, those people, generally lack real knowledge about these various faiths and beliefs. We also have limited exposure to people who practice them. Some organizations have been created and some programs have been developed, but they are very localized. It would be great if a national organization would exist to support people who want to actively learn about other faiths and beliefs. A main location could be established that would support local “branches.” All would exist to give people easy access to interfaith educational information and classes, activities they could participate in, and events they could attend without having to be on a college campus or live in one of the areas that offers an independent local version. My presentation shows the model of this organization as I see it.

Tom Woehner- Heroism's Toll on the Iwo Jima Flag Raiser [17]

Presentation Advisor: Professor Jeremy Taylor

After being seen as heroes for raising the flag on Iwo Jima the three surviving flag raisers (Ira Hayes, Rene Gagnon and John Bradley). I analyzed the toll the Seventh War Loan had on them. How did they deal with being known as a hero? Did the United States go to far with putting these men in the spotlight? Or was the United States right to do so, since they could

make a fortune off these men selling war bonds to the American People? Was the war bond tour and the American peoples perspective of these six men, especially for the three survivors, worth the emotional toll that was put on them by the American people and media. Also will provide a reaction from a surviving flag raiser about the event and offer analysis on whether it was worth the emotional risk or if the United States went too far putting these men in the spotlight.

Taylor Haydinger*-Poe's Obsession with the Death of Beautiful Women [24]
Presentation Advisor: Professor Lisa Crumit-Hancock

Edgar Allan Poe has written many short stories, essays, and poems with the theme of death. When researching further, one can see a number of poems and stories that involve specifically the death of a beautiful woman. Based on biographical research as well as textual analysis, it is apparent Poe did not have a good life; he lived in poverty and was an alcoholic. Through a further examination of Poe's life, one realizes that Poe was surrounded by death, especially the death of women. His mother and his wife both died of Tuberculosis. Though his mother died when he was rather young, this still affected him. Later in life, Poe watched as his wife experienced a slow and agonizing death over many years. This tortured Poe, which one could conclude, is why a widespread thematic use of death is so common in his stories. The aim of this project is to delve into Poe's life and works and reveal the women in his life that had an impact on his writing (or claims to). Through this analysis of the connections, explanations, and examples will be revealed as to why Poe wrote stories involving the death of a beautiful woman.

Alyson Seibert*- What are the long term effects of concussions? [31]
Presentation Advisor: Professor Kathleen Westfall

Concussions are a common injury that result from sports. The most common sports that have reported concussions have been football, hockey, and cheerleading. Many people experience similar symptoms, and some symptoms can even recur throughout someone's life. Concussions have often been overlooked, but they can heavily impact a person's daily living activities.

Jade Spangler-Taoism and Christianity [38]
Presentation Advisor: Professor Marian Plant

Taoism and Christianity are strangely similar for having different forms of disciplines and different beliefs. On one hand, Taoism is an ancient religion based upon philosophy and religious beliefs based on Chinese customs; this is faith that requires devotion from its followers. Taoism is about unity and opposites, things that are opposites complimenting one another, self-development and spiritually immortality. On the other hand, Christianity is one of the most popular religions in the world, based on a core concept that Jesus gave his life for

the sins of humanity and rose from the dead. Both focus heavily on scripture and meditation as spiritual practice. However, Taoism praise and worship is polytheistic and Christianity is monotheistic.

Braden Perry-The Impact of Religion in Public Schools [42]
Presentation Advisor: Professor Marian Plant

The role of religion in public school has changed over time. This presentation will focus on the role religion has played in schools in the past, and in the 21st Century, and the impact this has on society

12:00 pm

Mark Goebel- History of the civil rights movement [4]
Presentation Advisor: Professor Jeremy Taylor

My poster will cover the time frame from the Emancipation proclamation to modern day events associated with the civil rights movement.

Elias Jimenez- The Influence Defiance Had On Our Nation [11]
Presentation Advisor: Professor Jeremy Taylor

Although many know that Defiance has a history there are those that do not know the influence the small town had on our nation's history. From Fort Defiance, the canal system, Aviation, the world wars and the Manhattan Project, Defiance has helped shape our nation.

Damian Koester- Long Lasting Effects of Shays' Rebellion [18]
Presentation Advisor: Professor Jeremy Taylor

Shays' Rebellion was an armed revolution that took place in Springfield, Massachusetts in 1786 and 1787. Daniel Shays and his Shaysites were upset with unfair taxes directed at farmers. These taxes led to land seizures and bankruptcy for farmers. In anger, these individuals raided a Massachusetts court house and attempted to take over a federal army. They were met with defeat militarily in the attempt. Although the revolution had failed, it

showed the need for a stronger national government. Thus the constitution was created and the Articles of Confederation were disposed of. Researching, I asked the question how are the effects of Shays' Rebellion still affecting our country today? In my research I came across Ronald Reagan's Proclamation 5598: Shays' Rebellion Week and Day, 1987. Curiously I continued my research further wondering if there was a reason for it's creation. I came to a conclusion that this was created by Reagan to unite the country in a time of turmoil, which was the Cold War. Also I have found multiple other examples of how Shays' rebellion has played a substantial role in today's world.

Meredith Shank*- Social Media: How is it affecting teenagers? [25]
Presentation Advisor: Professor Shirley Sigg

Social Media is forms of electronic communication through which users create online communities to share information, ideas, personal messages and other content. The first form of social media was Facebook in 2004. Considering this, social media is fairly new to scientists and citizens. No one truly knows the long-term affects of social media because it has not been around that long, but numerous studies have been done about the short-term affects social media has on people. Teenagers are the main focus in the majority of the studies because teenagers are the main users of social media. There have been numerous studies done and the results are interesting.

Kayleigh Vicknair*-The Effects of NSAIDs on Breast Cancer: Positive or Negative? [32]
Presentation Advisor: Professor Andrew Black

Thousands of women are diagnosed with breast cancer each year. This presentation will research the effects of Non-steroidal anti-inflammatory drugs (NSAIDs) on the growth rate of breast cancer in women. After observing previously diagnosed breast cancer patients and recording their ordinary usage of NSAIDs, the data collected will be analyzed to find any commonalities between the growth rate of the breast cancer and the usage of NSAIDs and see if any link between the two exists. By determining the effects of NSAIDs on cancer, we could potentially affect the amount they are used day to day whether it be an increase or decrease.

Claire Turner*-Group Social Work with the Domestic Violence Offender Population [39]
Presentation Advisor: Professor Tess Homier

In working with offenders of domestic violence, social workers may utilize treatment groups. There has been a small amount of research been conducted on group practice involving this population. Groups studied during this research varied based on size, structure, and format. Collectively, research shows that moderate-sized, homogenous groups would most likely be the most effective in working with the DV offender population.

1:00 pm

Ashley Williams*- Advertising Appeals [5]

Presentation Advisor: Professor Jeffrey St. Onge

Advertising is used all over the world, and ads are present in almost every situation we come in contact with. Advertising is important because it helps to maintain a strong business and economy. Advertising uses techniques to appeal to consumers to make them want to buy a product. Though there are many different strategies that are used by advertisers, I am going to be describing and focusing on three main “appeals,” which are discussed by Stuart Ewen in the book *Captains of Consciousness*. These appeals are desire, masculinity, and femininity. This poster will analyze these advertising techniques, which are still used today.

Denique Dennis*- Porn and Power [12]

Presentation Advisor: Professor Andrew Black

Everything in the world is about sex except sex. Sex is about power. –Oscar Wilde
Historically, American society has rested heavily on masculinist and patriarchal ideologies which conventionally label women based on their sexual value and pay very little attention to their sexuality (capacity for sexual feelings) (Attwod, 2007). With the rise of feminism, activists and academics have argued assiduously as to whether or not pornography serves as a mere representation and perpetuation of patriarchal ideals. What are the implications that the representation has on women’s sexuality and sexual agency? This research offers a new dynamic to this already-polarized debate; that of mutual power and satisfaction between both genders.

Bradly Matson*- The Development of the Prison System Over Time [19]

Presentation Advisor: Professor Sheldon Goodrum

This presentation's purpose is to analyze how and why the prison system has changed over the course of history. It is hypothesized that the system has become more focused on the rights of the inmates over time. The research will detail general trends for criminal punishments and prison (or like systems) over different periods of history.

Tramel Chandler*- George Junius Stinney, Jr. [26]

Presentation Advisor: Professor Jeremy Taylor

This presentation will be about an individual named George Junius Stinney, Jr. George Stinney Jr. was the youngest person to be executed in the U.S. in the 20th Century. This presentation will be about who Stinney was and why he was executed. It will also include details that played key parts in his trial which resulted in his execution.

Alexis Walker*- Pharmacological Pain Management for Multiple Sclerosis [33]
Presentation Advisor: Professor Matthew Lundin

Multiple sclerosis is a chronic disease in which the immune system damages the myelin sheath of nerve cells in the brain and spinal cord. Although it varies, common symptoms of multiple sclerosis include fatigue, numbness or tingling, dizziness, and others as well as pain. My project will consist of information about multiple sclerosis and its symptoms, pharmacological alternatives for managing pain, their routes of administration, and the advantages and disadvantages of the routes including adverse effects.

Amoy Russell*-The Effect of Media on Children and Young Adults [43]
Presentation Advisor: Professor Andrew Black

According to researchers such as Ostrov, Parkes and Neely (2013), they have outlined that media exposure may have a negative effect on the behaviors of children. For this literature review, the following databases were examined to identify research pertinent to answer this problem: Education Complete and PsycINFO. Three articles were identified that met the criteria of being peer-reviewed, reports of primary research, published within the past 5 years, and available as full-text. Ostrov, Gentile, and Crick (2006) conducted a quantitative longitudinal causal-comparative design to investigate “the relation between various media habits and exposure to media and their effects on concurrent and prospective aggressive and prosocial behavior.” The participants included a total of 76 students (38 boys and 38 girls), their parents, and their head teachers who were from a large mid-western city. Surveys were sent home to parents of the children and returned via mail. The measures included the following: parental survey of media exposure, Media Quotient questionnaires, 10 minutes of observation, and a teacher report form. To analyze the data, the researchers used descriptive statistics, Pearson correlations, and Analysis of Variance. The researchers found that the amount of television viewing was correlated with prosocial behavior, and hours of watching television was associated with prior and concurrent relational aggression in girls and associated with prior and concurrent physical aggression in boys. The authors concluded that “both violent and educational media may have important effects on young children. These effects appear to be significant and to have both concurrent and future consequences (i.e. both positive and negative, depending on the nature of the media content).” Parkes, Wight, Hunt, Henderson, and Sargent (2013).

2:00 pm

Elizabeth Pienoski*- Analysis of Tool Marks and Ballistics for Criminal Investigations [6]
Presentation Advisor: Professor Steve Sondergaard

In forensic science, there are many different applications and analysis techniques that can be used for tool marks and ballistics. When a criminal investigation is taking place, in some cases, the types of tool marks as well as the locations of the tool marks at a scene can disclose important information to the investigators about the sequence of events that occurred. The marks of ballistics can also be useful to investigators to aid in the identification of the weapon that was used to commit a crime as well as if any outside forces acted upon the bullets. The different techniques and analysis strategies can be applied within the forensic science realm in order to help uncover important information and to help build better ways of analyzing evidence for investigations in the future.

Samantha Russell- "Survival of the Palate: Caribbean cuisine on an American college campus" [13]
Presentation Advisor: Professor Arif Sultan

There is not an availability of food that is representative of the Caribbean culture in this immediate sphere of Northwest Ohio. The Caribbean cuisine is a blend of different spices, seasonings and bursting with flavor. This gives an authentic flavor that is not easily mimicked. Food is used as a means to offset homesickness and lethargy that so easily beset us. Individuals consume food for energy, recreation and mainly to satisfy appetite. This research will show that the consumption of cultural food not only satisfies appetite but creates an atmosphere of bonding a sense communion. Preparing authentic meals creates a sense of community; it also creates the opportunity for our culture to be shared with others who are curious of the strange but scrumptious concoctions. The research will also extend our understanding of the role that food plays in the aiding in the success of Caribbean students on an American campus.

Tabitha Del Carmen*- The Fight Isn't Over [20]
Presentation Advisor: Professor Alesia Yakos-Brown

This presentation will demonstrate the struggles endured by those with physical or mental disabilities in the United States. Fortunately, some strides have been made in addressing the problem in the form of laws and policies, often times as a result of those with disabilities fighter for their own civil rights. Despite such advancements further advocacy is still needed to assist those with disabilities in achieving greater interdependence and quality of life.

Catherine Tilman- Living with HIV/AIDs in Prison [27]
Presentation Advisor: Professor Sheldon Goodrum

What is it like to live with HIV/AIDs in prison? Do inmates living with HIV/AIDs get enough medical attention? Should inmates living with HIV/AIDs be separated from other inmates?

Joseph Niehaus- The Importance of Stonewall Jackson [34]
Presentation Advisor: Professor Jeremy Taylor

My poster will contain information about the importance of Stonewall Jackson during the Civil War. Not only was he important as a leader of the war but he was also important because he was General Robert E. Lee's right hand man. His death was a crucial blow to the Confederate moral.

Spencer Saunders- Electric Telegraph during the American Civil War [40]
Presentation Advisor: Professor Jeremy Taylor

My Project is about the electric telegraph and how it changed during the American Civil War. Capitalist improvement contains technological changes. Wars and other interferences may put a break in the ongoing technological advances. The Civil War is considered to be the first modern war with all the technological advances. The greatest technological advancement might have been the electric telegraph. During the course of combat the Union put down 15,000 miles of line for the telegraph. This war was about to revolutionize information gathering from the front and create a general demand for up to date battle reports.

Michelle Bulriss*- Understanding Religion in Elizabethan England [44]
Presentation Advisor: Professor Marian Plant

Elizabethan England was a time of enviable preeminence in trade, might, and art: giving birth to an influx of writing formed by many epistemic religious influences. According to Pressley, "At this time, London was the heart of England, reflecting all the vibrant qualities of the Elizabethan Age. This atmosphere made London a leading center of culture as well as commerce. Its dramatists and poets were among the leading literary artists of the day." The role of creed in this era helped to form the writing style of this young Catholic boy by the name of William Shakespeare. Shakespeare created an entirely new form of religious literacy. Affected by Martin Luther's Protestant reformation, his father, John Shakespeare was faced with persecution for his Catholic faith, leading to the beginning of economic strife for the Shakespeare family; and the origins of William Shakespeare's experience with the role of creed in culture. Shakespeare is simply one agent of religious literacy that will be addressed through this research. Both immediate and long-term implications on religious literacy will be addressed, along with suggestions of the topic's place within the larger religious literacy framework.

3:00 pm

Remick Pearson*- Vermeer's Paintings [7]
Presentation Advisor: Professor Don Buerk

The paintings by Johannes Vermeer provide a deep and interesting perspective on the world in the late 1600's. The small nuances of his paintings depict images that he saw every day, many of which cannot be learned about other than from his paintings. The way that the book "Vermeer's Hat" describes the style and flow of the paintings clarifies what the point of these paintings were and how they represented the world that was developing around Vermeer. Some of the changes occurring in the world at this point in time was the establishment of colonies by European states and also the wars that happened within Europe. Also included in this poster will be the social changes that were happening in this period, such as the importance of military rank in society and the development of a market economy by many European nations. To sum up, this poster will be about the late 1600's and how the world was developing into the industrialized age. It will also be about how the paintings mentioned in the book "Vermeer's Hat" helped to depict these changes.

Cheryl-Ann Francis*-The effect of miRNA 99b and miRNA 365
on osteoclast differentiation [14]

Presentation Advisor: Professor Nathan Griggs

MicroRNAs (miRNAs) are short (~22 nucleotide) non-coding RNAs that regulate gene expression by decreasing the stability and/or translation of specific target mRNAs (Marco, 2011). There is a growing body of evidence suggesting that miRNAs play a critical role in the differentiation and function of osteoclasts, which are the cells responsible for bone resorption. Previously, we identified two miRNAs, miR-99b and miR-365, that were increased during osteoclast differentiation in vitro. In the present study, we evaluated the role of miR-99b and miR-365 in osteoclast differentiation by transfecting osteoclast precursors with inhibitors for these miRNAs. The effect of the inhibitors on RANKL-mediated osteoclast differentiation was evaluated by staining for Tartrate-Resistant Acid Phosphatase (TRAP), and quantifying TRAP-positive multinucleated cells (osteoclasts). There was an increase in the number of osteoclasts in cells transfected with miR-365 inhibitor, but decreased osteoclasts in cells transfected with miR-99b inhibitor. Our results indicate that miR-365 is a negative regulator of osteoclastogenesis, whereas miR-99b is a positive regulator. microRNAs are key regulators of osteoclast differentiation.

Joseph Carpenter* and Kayla Bierley*- Using DNA Testing to Determine Race [21]

Presentation Advisor: Professor Paul Passalacqua

In most cases, scientists only have one DNA sample to try and determine a person's identity and later use that sample to match it up with other samples. But if they could take a single DNA sample and determine the physical features, it would be easier to identify the type of person that the sample came from. There is a lot of hype about using DNA testing to determine race, but is there enough information about genes to accurately identify the race of the person.

Lindsay Kasmer*- Entitlement and Power in a Religious Context 28]
Presentation Advisor: Professor Marian Plant

This presentation will examine the affects a religious context has on entitlement and power, and how these two concepts are manifested and made into a reality in the 21st century.

Kristian Woolace-Did Queen Mary Tudor Have Pseudocyesis? [35]
Presentation Advisor: Professor Jeremy Taylor

Queen Mary Tudor was the queen of England from July of 1553 until she died on November 17, 1558. During this time she was known for her religious persecution against Protestants and non-Catholics. She was also the sister to Queen Elizabeth I, one of England's greatest queens. What is not very known about her is that she was unable to have children. Being interested in Tudor history I decided to look into reasons why she was not able to conceive the child she wanted above all things. It was online that I discovered the condition pseudocyesis. Pseudocyesis is a condition where some, if not all, symptoms of pregnancy occur, but at the end of the nine months there is no baby. This can come about by a woman feeling intense desire to get pregnant. After researching Mary Tudor I have come to a conclusion that she had the condition pseudocyesis. She experienced a loss of her menstrual cycle, swelling of the belly, and tenderness of the breasts. I believe that she developed pseudocyesis because of her strong desire for an heir to her throne. Without an heir her Protestant sister, Elizabeth I, would inherit and overthrow her established Catholic monarchy.

Sydney Unger*-Injuries in Volleyball [41]
Presentation Advisor: Professor Andrew Black

There are many injuries in volleyball. Volleyball injuries have not been researched as much as other sports injuries. This is why we need to look into it. In three articles that I have read they each talk about a collegiate athlete with a severe concussion, reports from hospitals with children 18 and under that came in with reported injuries, and collegiate injuries reported by the NCAA. These all helped look at what injuries are common and what needs more to look at, and find out what to research and how to do it.

Tory Savage*-Merging Technology with Education [45]
Presentation Advisor: Professor Mary Ann Studer

Technology has become a major part of the education system (Dag, 2012). In order for the students in remote villages to be on par with their peers in the urban centers in Belize they need access to technology. I intend to get additional computers to Belize for the school and library in San Carlos, and connect how the computers are being utilized by students and teachers to the national curriculum standards. Based on the progress that has already been made by former McMaster scholar Chelsea Bell, I was motivated to further improve and

expand the computer resources already in place at San Carlos. My work with the students and librarian in San Carlos was pivotal for them to develop a working understanding of technology and its role in education. This knowledge will allow them to further their knowledge in many fields associated with their community development. While in Belize I planned to help students learn basic computer programs and fundamentals that helped them get on track to prepare for high school where computer courses are part of the general curriculum for all students. Once on site I inventoried the computers that were stored in the library, and recorded which ones needed to be fixed or needed maintenance. Through interviews with educational officers, like the District Educational Officer Miss Alvarez. I wanted to figure out what was essential to help students prepare for technology courses. I also wanted to find ways for principals and teachers to improve communication between them, through Gmail and Google Drive for example. Once I get a hold of Miss Alvarez, I would be able to develop lessons to be used in the school and library that would aid students in their preparation to take the required technology courses in high school. This did not solve the problem right away, nor did I see results right away, but over time this would potentially turn into a huge increase in the potential for the children of San Carlos

to be successful as they pursue education beyond the primary grades offered in the village. The results will be a collaborative effort between the teachers, the librarian in San Carlos, and other school officials I will be further working with in Belize. Only then will I be able to distinguish for myself what progress exactly needs to be made from start to finish. Hopefully I will see a transition to more familiarity with software programs in each of the students, that will ultimately end up benefitting their education in high school. I anticipated that the librarian would understand the basics of computer hardware troubleshooting and be able to pass down that knowledge to the students when appropriate. These results can only benefit not just the students or the librarian, but to the whole community as a whole.

