2013 Indiana University South Bend
Undergraduate Research Conference

Friday, April 19, 2013

Conference Program and Abstracts
(Updated April 17, 2013)

SCHEDULE

8:30 – 9:00 am  Registration and Continental Breakfast  Wiekamp Hall (DW) main hallway

9:00 – 10:00 am  Panel Session I  DW classrooms 1150–1190

10:00 – 11:00 am  Poster Presentations and Coffee Break  DW main hallway and north hallway

11:00 – 12:00 pm  Panel Session II  DW classrooms 1150–1190

12:15 – 1:05 pm  Lunch  SAC Meeting Rooms 2nd Floor

1:15 – 2:15 pm  Panel Session III  DW classrooms 1150–1190
**WELCOME MESSAGE**
Welcome to the 2013 IU South Bend Undergraduate Research Conference! Whether you are student, staff, faculty, friend, visitor, or family, you have a wonderful day of intellectual and creative engagement ahead of you. Our call for submissions received an incredible response this year, and the conference features the research and creative activity of more than 75 students, organized into 19 panels and 15 poster presentations.

The research represents the depth of the educational experience at IU South Bend. Work to be shared includes (but of course is not limited to) explorations of the psychological and cultural roots of intolerance, the problems of urban decay and child poverty, culture and history from the medieval to the present, cognition and perception, the microscopic and the astronomical in biology, chemistry, and physics, and local government and corporate choices. It also includes compelling creative work via non-fiction memoirs and demonstrations of the imaginative and intellectual challenges of literary translation.

As you attend the panels and view the posters, please remember that a conference is a scene of engagement: knowledge is never a static product that is simply passed around like a football. Instead, the construction of knowledge is an ongoing, ever-changing, and exciting process that depends upon the hard and difficult work of individuals plus the participation of a larger community sharing perspectives, asking questions, and testing ideas in the spirit of collegiality and collective endeavor.

**ACKNOWLEDGMENTS**
The organizers of this conference (Jake Mattox, Dana Costea, Anne Magnan-Park, Jamie Smith, Alison Stankrauff, and David Wilkes) would like to congratulate and thank all of the students participating this year. We also commend their faculty mentors (named in parentheses in this program) for their dedication to their students.

We deeply appreciate the continuing and enthusiastic support provided by Executive Vice Chancellor for Academic Affairs Alfred Guillaume and the efforts of committed IU South Bend instructors and staff, including the members of the Undergraduate Research Advisory Council.

No conference is possible without the behind-the-scenes work that often goes unacknowledged in the areas of purchasing, facilities scheduling and setup, food preparation and catering, maintenance, information technology, and many more. Our gratitude to all who have provided, and continue to provide, important assistance that makes our scholarly work possible. Finally, we would like to thank Sarah E. Perschbacher for designing the conference poster and program cover.

**PROFESSIONAL COURTESY**
Please be considerate by silencing your cell phone and refraining from entering and leaving session rooms during presentations.
CONCURRENT PANELS: SESSION I (9:00–10:00)
Location: Wiekamp classrooms, south hallway

Literary Translation: Studies in French Poetry (Presentation in French with English handout) (DW 1150)
Moderator: Anne Magnan-Park

Traduire Baudelaire : Un voyage “dandy” (Translating Baudelaire: A “Dandy” Voyage)
JUSTIN M. BRYANT (Magnan-Park)

The Mirthful Wreck of the Poetic Translator: The Difficulties and Rewards of Translating “Allégeance” by René Char
MACKENZIE JARVIS (Magnan-Park)

The Translation of Humor in Boris Vian’s “La Java Des Bombes Atomiques”
ALLISON LEDEE (Magnan-Park)

Women and Morality in Moll Flanders (DW 1160)
Moderator: Andrew Schnabel

Sin to Win: Interpreting Questions of Economy and Morality in Moll Flanders
BRIAN MILLER (Kahan)

Moll Flanders: Slipped Through the Cracks of the Labor Force or Squeezed Her Way Through?
DOMINIC SOBIERALSKI (Kahan)

The History of Whoring
SAMANTHA BAKER (Kahan)

Female Commodity: Utilizing Female Agency in Moll Flanders
HEATHER GIBSON (Kahan)

Feminism and Relationships in Maria Edgeworth’s Belinda (DW 1170)
Moderator: Lee Kahan

Woman Defined and Revised: Maria Edgeworth’s Belinda and the Politics of Feminism, Gender, and Maternity in Eighteenth-Century Britain
ALYCIA GONDOCS (Kahan)

The Dangerous Minds of Women: Maria Edgeworth’s Belinda and the Problem with a Lady’s Education in the Eighteenth Century
TRACY SHELTON (Kahan)
A Friendless Society: The Origins of Contrived Relationships
LACEY VAN HULLE (Kahan)

Either Perfectly Indolent, or Exalted by Romantic Views: Romance Reading in Belinda as an Instigator for Woman’s Choice in Marriage
MARIA HUBBARD (Kahan)

**Going Medieval on You (DW 1175)**
**Moderator:** Jay VanderVeen

- Perspective on The Wounding of Abelard
  JOE EGGLESTON (Devaney)

- Anti-Semitism in Medieval Europe: A Look at How the Social and Cultural Practices of Medieval Europe Affected Jewish Lives
  AMBER PATRICE HARDCASTLE (Tetzlaff)

- A Whore in Lady’s Clothing: Venice, Courtesans, and Social Stature
  MORGAN LEE (Devaney)

**Discovering Many Worlds (DW 1180)**
**Moderator:** Gretchen Anderson

- Effects of increased CO2 on growth, survival, and reproduction of the invasive snail, Pomacea canaliculata
  NICOLE THORNTON (Marr)

- Why Study Black Hole Entropy?
  MARK KLEHFOTH (Schimmrigk)

- St. George Recoil Mass Separator Time of Flight and Position Sensitive Detector
  LUIS MORALES (Hinnefeld)

**Memory and Perception (DW 1185)**
**Moderator:** Igor Juricevic

- Pictorial vs. Live Representations of Eye Contact Between Opposite-Sex Pairs
  KRISTY PATTERSON (Juricevic)

- Do You See What I See? Personality and Color Perception
  REBECCA BARNES (Juricevic)
Do You Remember?
KATIE SEBASTIAN (Juricevic)

Effects of Aesthetics and Clutter on Learning
PATRICIA E. ANDERSON (Juricevic)

**Power, Ethics, and Influence** (DW 1190)
Moderator: Alicia McGill

The Link of Religiosity and Peers
JUSTIN SAMSON (Ritchie)

Powers of Decision with Persistent Vegetative State Patients
BRENDAN BECK (Bucksbarg)

Sexual Ethics: Sexual Consent is Irrelevant
BRANDON J. AITKEN (Collins)

**POSTER PRESENTATIONS AND BREAK (10:00–11:00)**
Location: Wiekamp east and north hallways

10:00 am: View the following posters and speak with presenters while enjoying continental breakfast.

Parent Strategies When Helping Their Bullied Child
PATRICIA CHESHER (Borshuk)

Nested PCR Detection of X-Disease in Michigan Fruit Orchards
ASHLEY COMPTON (Anderson)

Intrasite Debitage Patterns and Trajectories at the Collier Lodge Site (12 PR 36), Porter County, Indiana
BRYAN M. DULL (Wells)

Cell Phone Use and Predicting Addictive Behaviors
KELLY HIERTQUIST (Ritchie)

The Maximum Product Over Integer Compositions of n
ANDREW KENNEY (Shapcott)

Interviews: Family Caregivers and Mild Cognitive Impairment
CRISTINA LYNN (Ritchie)
Perspectives of PTSD
TAYLOR MICINSKI (Ritchie)

Spatial Analysis of Artifact Distribution at Bailly Homestead, Porter County, Indiana
SARAH E. MYERS (Wells)

Becoming a More Bicycle-Friendly City: Collecting and Projecting Bicycle-Usage Data in South Bend, IN
JULIO NAVARRO (Scott)

Electrochemical Analysis of Steroid Hormones in Water
MICHAEL PARTRIDGE and HOLLY CAPARELL (Muna)

Current Attitudes on Body Modification
NAOMI SHELBY (Ritchie)

Development of a Biosensor for Diagnosis of Normal Pressure Hydrocephalus
LAMA ROXANNE SIRHAN (Muna)

NIS Oxidation of Alcohols to Carbonyls
RACHEL WARRELL (McMillen)

The Oral Chemical Environment and the Survival Strategies of the Oral Bacterium Bifidobacterium Dentium
RICQUEA WILKINSON (Qian)

Effects of Garlic Mustard on Plant Species Diversity and Soil Fungi
AIMEE YARDE (Marr)

CONCURRENT PANELS: SESSION II (11:00–12:00)

Literary Translation II: Studies in French Poetry (Presentation in English)
(DW 1150)
Moderator: Anne Magnan-Park

Translation of “Barbara” by Jacques Prévert: A Commentary on World War II
SHARON V. BRINKER (Magnan-Park)

Repetition in Literary Translation
AMANDA MALONE (Magnan-Park)

Translation of “La Promenade de Picasso” by Jacques Prévert
QUEST PICKENS (Magnan-Park)
Power and Powerlessness in the 18th Century British Novel (DW 1160)
Moderator: Lee Kahan

Defoe and the Prison Landscape: Prison Reform in Early 18th Century Literature
KEL LUKEN (Kahan)

The Body and Genius: The Morals of a Prostitute
AYDA IFFRAIJ (Kahan)

Sentiments of Racism: Maria Edgeworth’s Belinda and the Distinctions of Race in the Eighteenth Century England
JOSÉ MAGALLON (Kahan)

The Cock and Bull Story: A Poststructuralist Examination of Circumcision, Coitus, and the Construction of Self in Tristram Shandy
ERIN MARIE HALL (Kahan)

Identity, Performance, and Post-Colonial Cultures (DW 1170)
Moderator: Chu He

Mindfulness, Flow State, and Interpersonal Belongingness in Ritualized Poi Performance
JUSTIN MCCAMMON and BRYAN DULL (VanderVeen)

Who Am I? The Role of Obeah and Christianity in Jamaica Kincaid’s Lucy
ERIN BRITT (He)

A Martyr by Any Other Name: Discrepant Claims Upon Altruistic Suicide in Wole Soyinka’s Death and the King’s Horseman
JOE EGGLESTON (He)

Creative Non-Fiction Reading (DW 1175)
Moderator: Joy Bye

“I Never Wanted Anyone to Feel Sorry for Me”
BRANDY BOHM (Parker)

“Shiftless Math”
BRIAN MILLER (Parker)

“The Cycle of Coupons, Ink, House Cleaning, and School”
MARISSA TOTH-BOWERMAN (Parker)
This is Not Your Mother’s Feminism: New Views on Gender, Feminism, and Motherhood (DW 1180)
Moderator: Christina Gerken

New Views on Gender
WENDY E DAVIS (Gerken)

“Carrots”
LORI HICKS (Borshuk/Lidinsky)

The Role of Race and Class in the Criminalization of Motherhood
PATRICIA LINNER (Gerken)

Sex-i-festo: Let’s Get Wicked
BRENNAN LENNOX (Gerken)

Media, Politics, and the Obama Presidency (DW 1185)
Moderator: Jamie Smith

Effect of Media on Vote Choice
LOWELL B. RITTER (Smith)

Re-Constructing Transformational Leadership: Political Time and the Obama Presidency
AMANDA HEIDEMAN (Smith)

Foreign Policy Success and Public Opinion: The Affects of the Obama Administration’s Foreign Policy Achievements
KAWEME NG’ANDWE (Smith)

LUNCH (12:15–1:05)
Location: Student Activities Center (SAC) meeting rooms, 2nd floor
CONCURRENT PANELS: SESSION III (1:15–2:15)

The Psychology and Culture of Intolerance (DW 1150)
Moderator: Cathy Borshuk

Progress and Violent Backlash for Egyptian Women
ROBYN BLACK (Gerken)

Unconscious Intolerance: Automatic Evaluations of Race-Related Stimuli
SARAH A. RATKIEWICZ (Urschel)

Off the Radar, On the Margins: The Exclusion of Trans*Female Bodies, Identities, and Lives in Western Subcultures
LEXI MILLARD (Lidinsky)

Knowledge and Language in the 18th Century British Novel (DW 1160)
Moderator: Jeff Luppes

The Incomplete Complete: The Importance of What Was Left Unsaid in Tristram Shandy
CHRISTOPHER WILLIAMS (Kahan)

Tristram Shandy and the Error of Human Reason
KYLE MUNTZ (Kahan)

“Alterations and Omissions”: Moll Flanders and Information Anxieties of the Eighteenth Century
RACHEL BARRETT (Kahan)

T******* S*****: The Significance of Symbols and Reliability of Language
ALEXANDRIA MILLAR (Kahan)

Modern Americana (DW 1170)
Moderator: Oscar Barrau

Major League Baseball team salaries and team performance
JASON MATTHEWS (Zhuang)

Lonely in America
ERICA OVERTON (Mattox)
Girls, Gore, and Gears: Gender and Genre in *Death Proof*
MICHAEL A. MORENO (Roth)

Selective Attention to Aesthetic Responses in Reading and Film
JEAN ELIZABETH JOHNSON (Juricevic)

**A Journey of Self-Discovery from Chaos to Structure: Constructing and Producing Feasible Solutions for Non-Academic Audiences** (DW 1175)
**Moderator:** Smiljka Cubelic

Stepping Forward in Mishawaka
DEBORAH BURY, SANDRA LEAMON, BRYAN PALMER, and BENJAMIN FUTA (Cubelic)

If Only the Choice Could be...Gluten-Free
LORRIE HOPPER, SONYA GRAHAM, LISA HOLT, and GEO HONNON METODE (Cubelic)

Stop the INsanity: Amending Indiana’s Current Gun Control Laws
NICOLE LUDLOW, JON MEIER, CAITLYN SCHROCK, and RUTH TORRES (Cubelic)

**Exploring Disorders** (DW 1180)
**Moderator:** Dennis Rodriguez

The Effects of Cognition on Emotion Detection
STEPHANIE BURKUS (Juricevic)

Locus of Control Across Settings
JACKIE MCDOWELL (Juricevic)

Effects of Mindfulness on Depression
HANSONG ZHANG (Juricevic)

DRI to Self-Monitoring to Reduce Self-Stimulatory Behavior in Teenager With Moderate-to-High-Functioning Autism Disorder
JUSTIN MCCAMMON (Stein)

**Urgent American Problems: Identifying and Solving** (DW 1185)
**Moderator:** Kristen Budd

Solving the Problem of Childhood Poverty in Washington, D.C.
ANNA HUTCHESON (Smith)
BRANDON J.AITKEN
Sexual Ethics: Sexual Consent Is Irrelevant
By updating Immanuel Kant’s views on women, we can begin to ignore the sexual ethics of Christian philosophers, Augustine and Aquinas. We update by claiming both men and women as rational equals, this, then, allows for an improved Kantian view on perfect friendship. With this idealized moral context, sexual consent is irrelevant, thus rape could not occur. This ideal sheds new light on practical remedies for date rape.

PATRICIA E. ANDERSON
Effects of Aesthetics and Clutter on Learning
Research has shown that a neat, non-cluttered working environment increases productivity (Kastner, 2007; McMains & Kastner, 2011). But what about aesthetics, that is, the artistic look or feel of a space? In this study we investigated if the aesthetics of a working environment can also affect productivity, specifically as it relates to a person’s ability to learn new material. Subjects were asked to memorize words that were presented superimposed onto pictures of 4 different working environments: (1) aesthetically pleasing and non-cluttered, (2) aesthetically pleasing and cluttered, (3) non-aesthetically pleasing and non-cluttered, and (4) non-aesthetically pleasing and cluttered. Learning was then measured using a recognition test. Results suggest that both aesthetics and clutter affect memory performance. Implications for college students and the design of study rooms are discussed.

SAMANTHA BAKER
The History of Whoring
My presentation is going to investigate how whoring was viewed in the eighteenth century. First I would like to discuss the two different branches of whoring. One was called public whoring which was when the woman would sleep with men for a sum of money while the second branch of whoring, and more serious branch, was called private whoring. Private whoring involved a married woman and her husband “debauching” her or a married man and a mistress. In private whoring the man was blamed for the act while in public whoring, the woman was the one at fault. After I discuss the two branches of whoring, I am going to give examples of how critics viewed the act of whoring during the eighteenth century. Some critics viewed whoring as a profitable thing while others viewed it as vile and repulsive. I will then argue that Daniel Defoe was one of the individuals that viewed whoring as profitable by using his novel Moll Flanders as a way to highlight this act. However, even
though Defoe uses this novel as a way to praise this act, he does write about some of the consequences that this act can procure. This novel brings to light this newfound act by using Moll to show both branches of whoring and the results of what type of life this act will result in.

REBECCA BARNES
Do You See What I See? Personality and Color Perception
Research has shown that color perception depends upon both the characteristics of the environment and the characteristics of a person’s visual system (Rozelle, 2010; Webster, 1996). But what about personal characteristics beyond the visual system, such as personality differences? Personality differences can affect a person’s behaviors and emotions (Keirsey, 1996). In this study we investigated if personality difference can also affect more basic mental processes like color perception. Subjects completed the Keirsey Temperament Sorter and were classified according to their personality type: (1) guardians, (2) idealists, (3) artisans, or (4) rationals. Their color perception was then measured using the World Color Survey color chart. Specifically, each subjects indicated which color they considered to be the “best” example of red, blue, yellow, green, purple, orange, and pink. Results suggest that personality does affect color perception. Implications for color perception and personality effects are discussed.

RACHEL BARRETT
“Alterations and Omissions”: Moll Flanders and Information Anxieties of the Eighteenth Century
I will present a paper that examines the ways in which the main character of Daniel Defoe’s novel Moll Flanders, Moll, manipulates language and the flow of information to her benefit. I will make the argument that the novel can be read as representing the anxieties of people in eighteenth century England about the accuracy and spread of information. To do this, I will outline the historical context the book was written in, addressing such questions as: who controlled the information and in what ways was it disseminated? What role, if any, did women play in this process? Were they, like Moll, responsible for the creation of information, or was their role limited to being the mere subject? I will then perform close readings on Moll Flanders that feature gossip and other forms of information dissemination to determine the ways in which information functions in the novel.

BRENDAN BECK
Powers of Decision with Persistent Vegetative State Patients
A Persistent Vegetative State is a state in which the person has generally suffered severe brain damage and has remained in a state of partial arousal, but is not fully aware, for at least four weeks. There is sometimes a disturbing decision to be made, whether or not to discontinue treatment of the afflicted patient. The idea of being put in a position to end the life of a loved one is incredibly momentous and requires the utmost support and informational disbursement from the physician responsible for the care of the individual in question. This places a lot of power in the hands of the physician responsible, a subject that Howard Brody discusses heavily in his essay
“The Social Power of Expert Healers.” Brody discusses the ideas of the power that physicians have and discusses the importance of maintaining the balance of power between the doctor and the patient. However, in a delicate situation such as this, there are other factors and people with “expert authority” in other areas in play as well. The public, the media, politicians, and the legal system all use their own form of power in ways that can be described as untoward. But the power these people exert is rarely based on medical knowledge, making their decisions based on things that do not always matter, so the power they wield is based on imaginary constructs, creating an idea of imaginary power, a power that exists, but is based can be based on irrelevant information.

ROBYN BLACK
Progress and Violent Backlash for Egyptian Women
In urban areas of Cairo, women are finding places in the public sphere as upper-middle class English-speaking employees of transnational corporations and as protesters in the 2011 revolution in Tahrir Square. Despite the fact that seeing women in public is becoming commonplace, these women must constantly manage their sexuality to minimize the chance of sexual assault. Upper-middle class women can use taxis to reduce the amount of time spent on the street; in contrast, poor and working class women protesters joined the upper classes for weeks in protest in the streets and Tahrir. While upper class women face being misidentified as prostitutes, female protesters in Tahrir were raped by government sympathizers, police officers, and fellow protestors alike. Sexual assaults on the streets of Cairo are not only routinized, but are not punishable under Sharia Law. The increasing Muslim presence in Egypt has installed Sharia Courts in most areas which should be the provinces of secular law. Since the introduction of neoliberal government policies of the 1990’s, women have won the right to enter the paid labor force but lost important social services like the widow’s pension; these changes have mainly affected urban women as little has changed in most rural areas of Egypt. Looking at different groups of Egyptian women shows the current tension between the modernization forces of capitalism and conservative interpretations of the Qur’an and how they clashed for the entire world to see, through social media, in 2011 in Tahrir Square.

BRANDY BOHM
“I Never Wanted Anyone to Feel Sorry for Me”
This memoir essay is about the life of a young woman over ten years after the death of her mother. The essay discusses drug and alcohol abuse and the bad relationships that shaped those ten years.

SHARON V. BRINKER
Translation of “Barbara” by Jacques Prévert: A Commentary on World War II
I chose the poem “Barbara” by Jacques Prévert to translate from French into English. It is a hauntingly beautiful poem about how love, innocence, and joy can be ravaged by the wages of war, in this case, World War II in Brest, France. Its author, Jacques Prévert, was a popular 20th century poet and screenwriter, often known for his commentary on the war. Cultural references can be especially confusing in translating
an historical poem such as this, if English-speaking natives are not aware of the geographical references of the “bateau d’Ouessant,” or the impact of the war on Brest, for example. In addition, the manner in which the French language is used regarding the formal versus the informal must also be communicated as poetically as possibly, as in “And I hope you don’t mind if I call you by name”, to explain the literally translated line, “And I hope you aren’t bothered if I use the informal ‘tu’ form to address you.” Dilemmas such as these prove that one is not only translating a language, but a culture as well.

ERIN BRITT
Who Am I? The Role of Obeah and Christianity in Jamaica Kincaid’s Lucy
This paper examines the roles of Christianity and Obeah in negotiating the post-colonial Caribbean identity of Lucy, an au pair from the West Indies. The tug-of-war between the two religions informs Lucy’s sense of self, from her familial and sexual relationships to the way she views herself. The roles of religion in post-colonial studies have only become a focus since approximately 2000. In addition to the novel by Jamaica Kincaid, the paper draws on the process of negotiating a Caribbean Identity presented by Stuart Hall as well as information about Obeah’s role during the Caribbean colonization and the ways in which Christianity was used as a way of controlling the Caribbean slave populations. This process is illustrated throughout the novel by the ways in which Lucy interacts with both the Christian and Obeah influences in her life.

JUSTIN M. BRYANT
Traduire Baudelaire : Un voyage “dandy” (Translating Baudelaire: A “Dandy” Voyage)
Literary translation is no small task. Preserving an author's tone, style, and intent is an art form unto itself. A self-proclaimed dandy, Baudelaire sought to find beauty in the mundane, even in the morbid. Part of his collection Les Fleurs du mal (Flowers of Evil), “L’Invitation au voyage” is an invitation to travel into the realm of the ideal. This English translation of the poem is one of collage. While borrowing bits from professional translators, the core of the translated text remains that of the presenter. The process of translation will be discussed, particularly the thought process involved behind specific vocabulary choices. Presented in French with corresponding English handout.

STEPHANIE BURKUS
The Effects of Cognition on Emotion Detection
Those with difficulty identifying and describing emotions often suffer from posttraumatic stress disorder and depression. These individuals, called “alexithymic,” seem to have the most trouble with detecting negative emotions (Parker et al 2005). People who show difficulties identifying and describing emotions may be lacking a sense of meaning in their lives, as it is shown that those who rate their lives as having more meaning exhibit better mental health (King et al 2012). The purpose of this study is to explore the effects of meaningful stimuli on an emotion detection task. Can subjects who are primed with a meaningful pattern identify emotional facial expressions better than subjects primed with random stimuli? The present research
hypothesis is that the group that is primed with images of the 5 seasons presented in order will be more able to identify a range of emotions, specifically, they will be better at identifying negative emotions than the participants primed with randomized pictures of the 5 seasons.

DEBORAH BURY (on behalf of Urban Community Transitions, LLC, which also includes SANDRA LEAMON, BRYAN PALMER, and BENJAMIN FUTA)

Stepping Forward in Mishawaka

In order to provide a pathway to the economic growth that is occurring in Mishawaka at this present time, the city’s infrastructure needs to put sidewalks in place for the ever growing population that is arriving around the area. The community of Mishawaka is developing at a monstrous rate, both economically and residential. The pedestrians that are visiting the businesses of the local economy are in dire need of sidewalks due to the increase number of vehicles on the two main streets, Grape Road and Main Street. In this proposal UCT, LLC had devised a plan to accommodate the increase number of pedestrians that will become patrons of the growing businesses in the area. The amount of access the walking community has will also be profitable to the surrounding community. While not being far from a major university, this community at definite times of the year can double in size in a matter of hours. The addition of the sidewalks will keep the visitors from leaving Mishawaka and increasing the revenue of our local business.

PATRICIA CHERESHER

Parent Strategies When Helping Their Bullied Child

Much research attention has been directed toward bullying in schools, as states have begun to require schools to include anti-bullying programs in their curriculum. Still, despite all of our findings, teachers, students, and parents are struggling to know what to do when bullying transpires. Parents whose children are victims of bullying are confused on how to advise their children, and are often left feeling like they have little control. The question is what are parent doing and should more research be done in investigating frustrated parents of bullied children? The purpose of the current research was to uncover solutions that frustrated parents are using so that later research can better determine how to help these families. A non-experimental quantitative survey was used consisting of 28 closed-ended questions. The results were analyzed based on the three following thoughts: (1) What solutions have you tried so far? (2) What solutions do you feel you have left to try? and (3) What is the last solution you would consider if nothing else works? My studies found ten strategies that were used by 79 participants of parents who had a child who had been bullied. Out of those participants 38% of them were able to resolve bullying. I made a table showing the different strategies all the participants tried in comparison to those who had resolved bullying. I also discovered interesting data on how the 79 participants claimed bullying had affected their child and presented it in a bar graph.

ASHLEY COMPTON

Nested PCR Detection of X-Disease in Michigan Fruit Orchards

X-disease, found in fruit trees, is difficult to diagnose because its symptoms are
common to other fruit diseases. To circumvent this problem, a diagnosis can be made by directly detecting the DNA of the causative agent. Potentially infected leaf samples from peach and cherry trees were diagnosed using nested polymerase chain reaction. Results indicated that while two samples of sweet cherry were positive for X-disease, all other samples displayed negative results for the disease.

WENDY E DAVIS
New Views on Gender
New Views on Gender is an IUSB student publication through the Women and Gender Studies program. As the editor-in-chief this year, I will talk about my experience of putting the journal together. Then, I will have the three panelists present their work that was published in the journal.

BETHANY DOBSON
Sexual Violence Against Military Women
Sexual violence against military women is an issue that has been ignored for a long time. One-third of women report sexual assault while serving in the military. Until recently, victims were required to report assault and other crimes to their chain of command. This has been problematic for a number of reasons. Commanders are not trained to handle situations of sexual violence, which are traumatic, and result in psychological issues for the victims. Commanders are also notorious for failing to punish the perpetrators, and punish the victims instead. Victims often suffer professional retaliation in the form of loss of rank or being dishonorably discharged for reporting sexual assault and other crimes. Victims are punished in many other ways, too. Many experts point to the patriarchal (male-dominated, obsession with power and control) structure of the military as the cause of the high rates of sexual violence against military women, as well as the lack of justice for victims. This structure is a reflection of U.S. social structure, which is also patriarchal. The messages that society sends (need for power and control, women are weak and incapable, women are not equal to men, etc.) are intensified in the military, since men make up approximately 85 percent of the military population.

BRYAN M. DULL
Intrasite Debitage Patterns and Trajectories at the Collier Lodge Site (12 PR 36), Porter County, Indiana
The Collier Lodge site (12 PR 36), located in Porter County, Indiana, along the Kankakee Marsh, is a multi-component site that dates from the early Archaic period to the very recent past. During the 2003-2011 field seasons this site underwent an intensive investigation conducted by the University of Notre Dame in cooperation with the Kankakee Valley Historical Society and Indiana University South Bend. This study analyzes the debitage recovered from the Upper Mississippian roasting pit features in order to assess reduction strategies and site use. The flaking that occurred at the site followed a middle to late stage trajectory along the reduction continuum. Additionally, the similarity in the assemblages across features points to the continuity in site use over time for similar purposes. In this way, the data contribute to a fuller
understanding of Upper Mississippian task groups and technological organization at logistical camps.

BRYAN DULL (with JUSTIN MCCAMMON)
Mindfulness, Flow State, and Interpersonal Belongingness in Ritualized Poi Performance

Poi, a choreographed art of fire dancing, traces its origins with the Maori people of New Zealand, where it originated as an exercise of both practical and ritual significance. Today, Poi is a performance art used to entertain audiences worldwide, and has gained popularity in festivals, raves, and underground music cultures of the United States. For this study, a group of Poi spinners was examined over a one year period of time to assess how Poi has impacted their lives in terms of interpersonal needs, mindfulness, quality of life, physical self-efficacy, community engagement, flow-state and sense of belongingness both within the group and the community at large. An interdisciplinary mixed methods design was used, employing qualitative anthropological methodology of participant observation, and utilizing the theory of community of practice, alongside a repeated measures psychometric design to look for benefits group members were receiving as a result of belonging to the group, and engaging in the act of Poi Performance itself. Results indicate that members may benefit psychologically both as a result of belonging to the performance group, and experience heightened states of mindfulness and flow state as a result of engaging in the act of Poi performance itself. Belonging to a performance art group such as this may be an effective way to cultivate therapeutic benefits for people suffering from emotional distress, as well as presenting the community with a fun and engaging form of alternative cultural entertainment.

JOE EGGLESTON
A Martyr By Any Other Name: Discrepant Claims Upon Altruistic Suicide in Wole Soyinka’s Death and the King’s Horseman

The cultural phenomenon of ritual suicide is no more well accepted in Western social ideology now than it was in the not-quite-post-Edwardian climate of British colonial Yoruba during World War 2. In that period, the class system was enforced more rigidly in relation of the colonized to the colonizer (and intertwined with concepts of race), than within a single homogenous society, i.e. the British colonists in Yoruba. Soyinka’s play is, partly, a reproach of the class/race distinctions which allow one group the privilege of altruistic suicide, but deny it to another. Within the context of Soyinka’s reproach, this paper examines the possibility of breaching the walls of class/racial colonial propriety, and the validation of both views of suicide, by use of Edward Said’s concept of discrepant experience. The two social groups most present in the play experience both the ritual suicides of Elesin Oba and the unnamed ship’s captain from their own exclusive perspectives, and each culture forms its indictment of the other by its experience of that alien cultural phenomena.

JOE EGGLESTON
Perspective on The Wounding of Abelard

While mention of “castrati” or “eunochis Dei” might bring to mind medieval monks and choirs, the practice of castrating able-bodied men was actually quite rare during
the medieval era. Peter Abelard’s castration was an actual assault on his body, a violent act of revenge. In this paper, I parse the difference between Biblical and ancient approaches to castration, and medieval ones. I consider the question of whether, in the end, Abelard’s wounding truly was, as one monk told him, “an expression of God’s mercy,” or a sadistic attack.

HEATHER GIBSON
Female Commodity: Utilizing Female Agency in Moll Flanders
The purpose of this paper is to demonstrate how Moll Flanders, through her wisdom, maximized female agency in a time when it was virtually nonexistent. I will argue that throughout Moll’s life, she made it through episodes of progress and stagnation due to her intelligence and her dependence on men. I will show how the patriarchal society and the homosocial relations between men in early eighteenth century England was used to suppress women at that time. This paper will also elaborate on the few opportunities that women had to exercise their agency. I will use a theoretical approach from Luce Irigaray, which in essence, states that women have value only to the benefit and relation to men. This theory is crucial in order to reveal Moll’s value in relation to the men in her life. This paper will also include close readings of a few key scenes to further prove my argument.

ALYCIA GONDOS
Woman Defined and Revised: Maria Edgeworth’s Belinda and the Politics of Feminism, Gender, and Maternity in Eighteenth-Century Britain
In Maria Edgeworth’s Belinda, the passionate and experienced Lady Delacour creates a narrative distinct from that of Belinda’s, and one that is arguably more significant. At the start of the novel Lady Delacour seems to represent the best of fashionable society and, conversely, the opposite of idealized womanhood. And while she plays the role of carefree socialite well, in reality she is miserable and only continues the ruse because she is “fit for this kind of life, and for no other – [she] could not be happy at home” (41) with the husband she has alienated through her love of spending lavish amounts of money and demands for attention. She offers the home as the natural place of happiness for a wife and mother, and states that the social life she leads is simply an unfortunate alternative to a life of domestic bliss. Throughout her narrative, in fact, references subtly defining the ideal place of a woman – according to Lady Delacour – as in the home raising her children and maintaining a happy home abound. By the end of the novel, she “has reconciled herself to her husband, and to his friends” (403) and has brought her daughter home. A tale of maternity, deceit, and the loss of reputation – a warning of the dangers of coquetry and pride – Lady Delacour’s tale explores the ideas of motherhood and domesticity in eighteenth-century Britain. For my research paper, I am interested in investigating the role these ideas played in society and their effects upon the writings of female novelists. I would like to use this information to attempt to understand why a novel that so stringently reinforces the ideas and ideals of patriarchal society presents Lady Delacour as a “cured coquet” by the end of the novel, thus subtly implying that reputation and virtue are not inextricably linked and that the loss of one does not necessarily a permanent loss.
ERIN MARIE HALL
The Cock and Bull Story: A Poststructuralist Examination of Circumcision, Coitus, and the Construction of Self in *Tristram Shandy*

My presentation will examine how Laurence Sterne’s novel *Tristram Shandy* engages with mid-18th century anxieties over gender, power, and the seat of male identity. During this remarkably progressive period, concepts that were once thought to be fixed and innate (such as gender, self, and truth) became subject to widespread skepticism and play. However, when the Jewish Naturalization Act of 1753 incited panicked claims that such an act would lead to the nationwide circumcision of Gentiles, and innumerable pamphlets, poems, and other campaign material urged men to “protect their foreskins,” it demonstrated a pervasive belief that the masculinity or manhood of British men would be threatened by physical modification. Thus, there was clearly tension in conflicting popular beliefs about the relationship between the body and the self, particularly between the male body and masculinity or power. I will argue that *Tristram Shandy*’s treatment of the circumcised, mutilated, or dysfunctional penis critiques notions of anatomically rooted masculinity by satirizing such anxieties. Further, its unorthodox use of syntactic and stylistic strategies and synecdochic framework suggests that one’s identity is not an immutable extension of the body, but a conglomerate of personal experiences and cultural prescriptions that is subject to constant construction, evolution, and rebirth. As such, the novel exposes the scientific and social contradictions at work in mid-18th century society.

AMBER PATRICE HARDCASTLE
Antisemitism in Medieval Europe: A Look at how the Social and Cultural Practices of Medieval Europe Affected Jewish Lives

The paper focuses on the experiences of Jews in Medieval Europe (approximately 1100-1500 in this work) via the enduring anti-Semitic legends and folklore that sparked violence towards Jews. I will argue that the social and cultural practices of the time forced Jews into the unsavory acts and roles that propagated, strengthened, and resurrected these stereotypes towards them, marking Jews for a role of perpetual exploitation. The work accomplishes this by covering various stigmas and accusations against them, and researching how and why these rumors persisted, and how often society created the very actions and stereotypes that it despised.

AMANDA HEIDEMAN
Re-Constructing Transformational Leadership: Political Time and the Obama Presidency

The concept of presidential power can be derived from many theories. Utilizing Stephen Skowronek’s notion of political time, the broad question at stake is whether or not President Obama falls into the role of a reconstructionist. A president of reconstruction wipes away the status quo of a previous regime and establishes a foundation for years to come. The impact of institutional evolution and expansion on the relevance of the political time theory, however, is unclear. What do these implications mean for future transformational leadership, if it is at all possible in the modern era? The data collected in this research suggests several parallels between Obama and other presidents of reconstruction. But is this enough to sustain a new
democratic order for future generations? The difficulty lies in predicting the future based upon a theory drawing from historical evaluation.

LORI HICKS
“Carrots”
The short story “Carrots” is about teaching teenagers about how to properly use condoms and how to say no to unwanted sexual contact. This short story will be part of the panel “This is Not Your Mother’s Feminism: New Views on Gender, Feminism, and Motherhood.”

KELLY HIERTQUIST
Cell Phone Use and Predicting Addictive Behaviors
Cell phones are popular in today’s society, so much so that they are no longer just for adults and a few teenagers who could afford them. Today nearly everyone has had one or currently does and uses it on a regular basis. This study focuses on how much people use their cell phone and how that correlates to addictive behavior. Little study has been done on the topic but what has, shows a correlation to the amount of cell phone use mixed with some personality traits does positively correlate with addictive behavior. Anxiety can be a predictor of addictive behavior as many studies have shown. This study wants to look at if it is cell phone use or generalized anxiety that is the leading predictor of addictive behavior.

LORRIE HOPPER (on behalf of the group Salus, which also includes SONYA GRAHAM, LISA HOLT, and GEO HONNON METODE)
If Only the Choice Could be...Gluten-Free
To continue growth and remain highly competitive on domestic as well as global food markets, Kraft Food Inc. should expand production of gluten-free products. Since the gluten-free market is rapidly growing globally, a change in current marketing strategies is recommended, especially because this trend is expected to be sustainable over many decades. Timing is of great urgency because Kraft Food’s rivals are wasting no time in filling the needs of the gluten-free market. With Kraft’s successful past marketing strategies when it comes to competition, we are confident that Kraft Foods can remain a fierce competitor in the gluten-free market both domestically and globally. Salus’ research for this project indicates that this expansion will be highly profitable primarily because of an increasing awareness of Celiac Disease, and food allergies in society. In addition, there are a growing number of consumers who seek a healthy food lifestyle. To ensure a successful venture into the market, Salus recommends the following: 1. Kraft Food, Inc. should alter its website to highlight gluten-free products. 2. Develop a new labeling system. 3. Adopt new strategy in developing the gluten free products lines.

MARIA HUBBARD
Either Perfectly Indolent, or Exalted by Romantic Views: Romance Reading in Belinda
as an Instigator for Woman’s Choice in Marriage
My presentation will examine how Maria Edgeworth’s novel Belinda (1800) interacts with the discourse of women and reading, particularly whether women reading
romance novels is pro or anti-feminist. Historian Richard Barney says there was not a consensus in either male or female commentators at the time about romance novels’ effects, but the discussion raised strong opinions, such as George Colman’s sentiment: “Tis NOVEL most beguiles the Female Heart./Miss reads—she melts—she sighs—Love steals upon her--/And then—Alas poor Girl!—good night, poor Honour!” On the other hand, some novels, such as The History of Cornelia (1750) portrayed a woman refusing a man’s unchaste and undesired advances, which some would consider both good for a woman’s moral development while at the same time encouraging her autonomy. I will argue that novel reading can act as a feminist tool. Many novels of the day encouraged women to marry for love, not convenience, and to exert control in matrimonial decision making. Belinda’s Lady Delacour, familiar with novels, experiments with unconventional gender roles; similarly, Virginia, who reads many novels, is stirred to resist as best she can an arranged marriage and marry for love. Although the novel does not wholeheartedly embrace novel-reading, it does point to the power of reading and imagination to stir women to strive for security above happiness.

Anna Hutcheson
Solving the problem of childhood poverty in Washington, D.C.

The focus of my research paper on Washington, D.C. was to study the issue of childhood poverty and the various pieces of legislation that address this issue. This research led to my knowledge of the 2009 American Recovery and Reinvestment Act. This act helped to make it possible for state and local governments to fund social programs that assist impoverished families, especially in Washington, D.C. where one in three children grow up poor. The Recovery Act provided approximately $840 billion for many programs, including income-based tax credits, food stamp programs that provide access to food for families with children, temporary assistance and job skills training for unemployed parents, and the enforcement of child support payments. The Recovery Act provides an example of how Federal legislation can be used by local governments in order to increase the welfare of its residents. In the case of Washington, D.C., the primary benefactors are children.

Ayda Iffraji
The Body and Genius: The Morals of a Prostitute

My presentation will study how Moll Flanders addressed the issue of poverty that lead to prostitution and spread like a disease in the eighteenth century’s society. Historian Robert Shoemaker reported that “prostitution was increasingly visible in this period.” Also, Jeremy Black addressed the issue of poverty as a reason for increasing the importance of Money over virtue, which lead to prostitution to take place as a job could be “either full-or part-time [as] the fate of many women”. Prostitution in the eighteenth century almost reached a point to be a norm within that society, which leads to be a real concern in many literature works. Henry Fielding’s play The Modern Husband that first run in 1732 in London was about a husband who is selling, or on other words renting, his wife for Genius. Also, the poem “Genius, Virtue, and Reputation” addressed the problem of prostitute to scarify virtue for many. Literature is the place to write about this phenomenon as a trial to stop this
disease from becoming a norm. On the other hand, literature, *Moll Flanders* one of them, suggests solution for the phenomena by highlighting women’s capability to play major role in that society instead of prostitute, as a recall for an early feminism movement.

MACKENZIE JARVIS
The Mirthful Wreck of the Poetic Translator: The Difficulties and Rewards of Translating “Allégeance” by René Char

Literary translation is a rigorous and creative process that takes patience and meticulous attention to the original text’s every detail. In this presentation, I will discuss the process, difficulties, and fulfillment that come with the experience of translating a literary text, and in my case, René Char’s “Allégeance.” Char was a 20th century French poet who served in the Résistance, the French underground movement which was formed to fight against German occupying forces during WWII. “Allégeance” is a love poem that deals with issues of loss and resilience. I will address the challenges of keeping the rhyme scheme, rhythm, and tone of the original poem. Though a short poem, Char’s “Allégeance” is brimming with symbolism, metaphor and obscure phrases that undoubtedly make for “une épave heureuse” (a happy wreck) of a translator.

JEAN ELIZABETH JOHNSON
Selective Attention to Aesthetic Responses in Reading and Film

Is it true that the book provides deeper literal meanings than the movie will? The main purpose of this study was to explore a possibility that this assumption derives from a preset belief about the hierarchical order of book over film. According to James' Selective Attention Theory and Rosenblatt's Reader Stance, meaning is evoked by individual perspective and personal response. An implication to this was that a mediating role of self-interest exists independent of the type of medium. To inquire if affective responses predominate in reading as well as movie viewing, participants were presented with reading selections and movie clips from a recent novel and completed multiple choice rating scales.

ANDREW KENNEY
The Maximum Product Over Integer Compositions of n

A composition of n is a sequence of positive integers that sum to n. For example, the compositions of 3 are [1,1,1], [1,2], [2,1], and [3]. Let P be the product of the terms in such a sequence. Given a positive integer n, what is the greatest possible value of P over all compositions of n? I plan to explore and present an answer to this question.

MARK KLEHFOTH
Why Study Black Hole Entropy?

Perhaps Stephen Hawking’s most influential contribution to our understanding of fundamental physics was showing that quantum theory implies that black holes are not entirely black, but rather that they radiate light and emit particles at a nonzero temperature. His discovery implied that black holes have a microscopic structure; in other words, black holes possess microscopic states. These states are quantified in
the black hole’s entropy value. However, when Hawking made this discovery in 1974, it was not yet possible to describe the actual microstates of a black hole. In this presentation, I will discuss some of the exciting progress which has recently been made toward understanding the microscopic structure of black holes in quantum gravity theory. For instance, in 1996 Andrew Strominger and Cumrun Vafa built a stable, charged black hole, called an extremal black hole, within string theory. They were then able to count the number of microstates (i.e. the entropy) for this particular type of black hole. Their result agreed to leading order with the celebrated macroscopic entropy formula derived semi-classically by Hawking. My research project involves calculating how the macroscopic Bekenstein-Hawking entropy function is itself modified when quantum correction terms are included in Einstein’s theory of gravity. These macroscopic calculations would allow microscopic string theory entropy calculations to be compared with their macroscopic counterpart for an extremal black hole.

ALLISON LEDEE
The Translation of Humor in Boris Vian’s “La Java Des Bombes Atomiques”
I chose to translate one of Vian’s song “La java de la bombe atomique.” I find Vian to be an interesting character. He did not limit himself to song writing, he was interested in other things such as poetry, acting, and much more. This song was written about a time when the fear of the atomic bomb was at an ultimate high. Vian is a songwriter, musician, and humorist who knew how to transgress the torments of his generation. I chose this song because it presented quite a challenge. It is a lengthy piece filled with humor as well as death and finds a balance between the two. I will be talking about my difficulties with keeping the rhythm of the song as well as keeping the rhymes. This song has a political background so I wanted to make sure not to lose that aspect of it, however I didn’t want to make the material too heavy so I worked on still keeping it light and keeping some of the humor that Vian intended his song to have. It is difficult as a translator to balance what the original work says literally versus what the meaning of it would be without deforming the text entirely.

MORGAN LEE
A Whore in Lady’s Clothing: Venice, Courtesans, and Social Stature

BRENNAN LENNOX
Sex-i-festo: Let’s get Wicked
A manifesto on the state of sexuality education and sexual health services in the Midwest, and specifically in Indiana. The manifesto examines the issue from political to local and supplies a model for a community sponsored health services system.

PATRICIA LINNER
The Role of Race and Class in the Criminalization of Motherhood
While White women have been encouraged to become mothers and have more babies, Black women have repeatedly been portrayed as less-deserving mothers. In the days of slavery they were often blamed for their infants deaths. Later they were sterilized without their permission. In 1988, a study was released by the National
Association for Perinatal Addiction Research and Education (NAPARE) that estimated as many as 375,000 drug-exposed infants were born every year. While this statistic included all drug use including alcohol, the media seized the data and focused solely on the image of a poor Black crack addicted mother. This portrayal was widespread and exaggerated by the media. It also ignored all the other drug use going on by mothers of all other ethnic backgrounds and social classes. Black mothers were unfairly targeted and Black women were prosecuted in disproportionate numbers compared to White women. “Crack babies” became another way to vilify poor Black mothers.

NICOLE LUDLOW (on behalf of Indiana Citizens Against Gun Violence, which also includes JON MEIER, CAITLYN SCHROCK, and RUTH TORRES)

Stop the INsanity: Amending Indiana’s Current Gun Control Laws
Our group is researching Indiana’s current gun control legislation. Because of the increased number of mass shootings in the United States, as concerned citizens, we are proposing an Indiana Senate Bill on Gun Control to the Indiana Governor, Mike Pence. Our main focus is to compel the Governor to reconsider his current position and submit revisions to the current legislation. The bill could also include a reporting mechanism by mental health providers on preventing ownership of a gun by those deemed a threat to society. This mechanism could be included in the current background checks conducted by the government.

KEL LUKEN
Defoe and the Prison Landscape: Prison Reform in Early 18th Century Literature
My presentation will examine how Daniel Defoe’s novel *Moll Flanders* engages with the call for prison reform of the 18th century. The prison system was simply a holding place until sentence was delivered and merged all classes together, rather than a place of reform - punishment was often branding or more likely death. In addition, the prison system identified with and was characterized as a form of commercialization. I will argue that *Moll Flanders* is used to criticize the prison system of its corruption and inequality. Defoe makes a concerted effort to negatively describe the prison experience. Furthermore, Defoe suggests two key solutions to prison reform. First, as a religious solution, Defoe proposes a more personal and earnest approach to changing citizens besides physical deterrents. Secondly, as an economic or utilitarian approach, Defoe prefers transportation as a solution that benefits country, individual, and family. While Defoe still promotes an economic use out of prisons, *Moll Flanders* focuses on internal change modification, rather than outward modes.

CRIStINA LYNN
Interviews: Family Caregivers and Mild Cognitive Impairment
The enriched life expectancy of the 21st century has brought a greater population of older adults, some of whom are suffering from mild cognitive impairments (MCI) and are in need of care. Providing care for this vulnerable population is an imperative for the future of our society. It is important to understand the lifestyle best conducive for not only the MCI adult but also for the family member providing care. The purpose of
my current qualitative research is to delve deeper into the emotional and cognitive stressors of the importance of daily routines for such a population. The participants of this research included seven individuals caring for a family member with mild cognitive impairments. Participants answered open-ended questions regarding their daily routines with their MCI family member. Participants overwhelmingly expressed a trend of frustration with experiencing negative interruptions throughout the course of their day. Positive interruptions, however, placed no burden or stress and in some cases provided beneficial stimulation and reprieves for the MCI adult and caregiver. The MCI adult tended to experience more anxiety than would otherwise be expected with an uninterrupted routine. Maintaining a daily routine itself might not necessary. However, reducing the amount of negative interruptions experienced by the MCI adult can improve the quality of care for both MCI adults and their caregivers.

JOSÉ MAGALLON
Sentiments of Racism: Maria Edgeworth’s Belinda and the Distinctions of Race in the Eighteenth Century England

My presentation will investigate how Maria Edgeworth’s novel Belinda (1800) participates in the societal debate of issues of race and slavery. Through the initial presence of Slavery in England dating back as early as 1562, through the end of the 18th century and early years of the 19th century, the struggles with legislation on slavery affected the views that members of society had towards slaves and people of color. I will argue that Belinda captures the struggles with the division in society between the acceptance and rejections of slavery. Nonetheless the depictions that the novel brings about acceptance do not completely eliminate the feelings against race, through differences in treatment and racism. Edgeworth was highly focused on wanting to address the separating opinions of slavery, which were later omitted through revisions. The overall subtle tone of race distinction in Belinda, focusing directly on Lady Delacour, Mr. Vincent, Juba (the man-servant), and Belinda herself, reflects the Eighteenth Century struggles in England that affected the treatment and conflicting views of people of color and the struggles of race.

AMANDA MALONE
Repetition in Literary Translation

Jacques Prévert’s “Familiale” is an anti-war poem published shortly after World War II. Prévert quit school and went to work for a department store until he was called up for military service in 1918. “Familiale” explores the everyday life of a French family for whom war has become routine. When their son dies on the front, the family treats his death as inevitable and the trips to the cemetery become integrated in their daily chores, a meaningless occurrence that punctuates their lives. Getting the tone of this poem right in my English translation was particularly challenging. I will address the process involved in maintaining the original intent in this presentation.

JASON MATTHEWS
Major League Baseball Team Salaries and Team Performance

This research examines the impact of team salaries on the performance of Major League Baseball measured by team winning percentages. A panel of data is collected
For twenty-five baseball teams from 1985 to 2012. Three regression models are estimated in this study using the Ordinary Least Squares (OLS) method. The first regression model attempts to investigate the impact of team total salaries on team performance. The second regression model decomposes the total salaries into defensive and offensive salaries based on players’ statistics. The third regression model uses baseball statistics that measure defensive and offensive performance to explore the impact of these respective strategies on team performance. The estimated results from the first two regressions show that team total salaries or defensive and offensive salaries only explain 5 percent of the variation in team winning percentages. The estimated results from the third regression show that the model using baseball statistics explains 82 percent of the variation in team performance. In particular, the team’s fielding percentage (FP) and offensive average (OA) present strong positive effect on team winning percentages, while the team’s earned run average (ERA) has a strong negative effect on team performance.

Justin McCammon
DRI to Self-Monitoring to Reduce Self-Stimulatory Behavior in Teenager With Moderate-To-High-Functioning Autism Spectrum Disorder
A single subject case study following a client, “PC,” who engaged in frequent self-stimulatory behavior, such as hand-flapping, crying out, moaning, rocking, self-spanking, and more, was carried out over a six week period to assess the function of these behaviors and reduce their frequency to acceptable levels. A procedure was employed to lower self-stimulatory behavior by differentially reinforcing incompatible behaviors (DRI), and was eventually replaced with a self-monitoring program (SM). Data were collected at baseline, during treatment, and post treatment. Self-Stimulatory behavior was reduced by the procedure, and remains lower than baseline with self-monitoring.

Jackie McDowell
Locus of Control Across Settings
Although children of low income families are typically considered to be at higher risk for psychological disorders, recent research has shown that, surprisingly, high income adolescents are at a greater risk for anxiety, depression, and substance abuse than their lower income peers (Luthar & D’Avanzo, 1999). This suggests that high income parents who are professionally successful may not be as successful at the task of parenting. This is puzzling since success in a variety of different settings has been shown to be predicted by a person’s Locus of Control. People with an Internal Locus of Control tend to feel that their circumstances are a direct result of their own actions, while External Locus of Control individuals tend to believe that reinforcement has more to do with luck or chance. Those with an Internal Locus of Control tend to have more positive outcomes in life than those with an External Locus of Control (Blau, 1993; Howell & Avolio, 1993). In this study, we investigate if the high income adolescents are at higher risk because their parents have an External Locus of Control for parenting, but an Internal Locus of Control for their professional life. Participants of varying levels of income completed items from the Parental Locus of Control and Work Locus of Control Scales. Results indicated that higher income participants have
a greater difference between their Parental and Work Locus of Control scores than do lower income participants. Implications for the global nature of Locus of Control will be discussed.

TAYLOR MICINSKI
Perspectives of PTSD
Post-Traumatic Stress Disorder, or PTSD as it is more commonly referred to, is a growing concern in the United States Military. There have always been cases of PTSD or “shell shock” as it was formerly called, but the rates seem to be skyrocketing in the veterans who have returned from Iraq and Afghanistan in the last ten years. One of the biggest problems the military is facing, however, is not necessarily the rates of symptoms of PTSD among its members, but the fact that very few of the veterans choose to seek help for their symptoms which can then lead to even more issues in the future. This problem is due to the negative stigma that is attached to PTSD victims and how often times, people view those afflicted with PTSD as “weak.” This survey set out to find where that stigma may lay and how strong the stigma might be. The survey focused on measuring levels of education and military experience among the participants, while also measuring their attitudes about scenarios involving veterans with PTSD symptoms to see if education level or military experience were areas in which the stigma of PTSD is the strongest.

ALEXANDRIA MILLAR
T******* S*****: The Significance of Symbols and Reliability of Language
My presentation will investigate how Laurence Sterne’s novel Tristram Shandy demonstrates how knowledge we gain is constructed, which is displayed through the use of textual symbols within the novel. In John Locke’s “An Essay Concerning Human Understanding,” he talks about the abusiveness and “affected obscurity” of language and how knowledge is not reliable because it is constructed. Many critics have discussed how Tristram Shandy reflects early eighteenth century ideas about objective reality and the reliability of language. I will argue that Laurence Sterne constructed this novel the way in which he did, because he wanted to make the reader engage with the text. Along with this, Sterne puts some of the responsibility of authorship on the reader with the use of missing words or phrases that appear throughout the entirety of the novel. Therefore signs in the novel are literary devices used by Sterne, because he wants to engage the reader and make them use their own personal experiences in order to supplement for the “missing” parts of the novel.

LEXI MILLARD
Off The Radar, On The Margins: The Exclusion of Trans*Female Bodies, Identities, and Lives In Western Subcultures
Trans*identified women are among the most marginalized populations in Western society, and this marginalization appears not only in the dominant culture, but even in subcultures that one might think would open their doors to this highly oppressed queer class. From the spaces for “women-born-women” like the Michigan Womyn’s Festival to the politics of sexual spheres of desire, trans*women commonly find themselves rejected from female and queer encoded spaces. As a queer,
trans*feminine identified person, I find myself navigating similar waters on a constant basis. This marginalization amongst the marginalized is an act of oppression that deserves as critical of a look as any other form. By drawing on resources like Drew Deveaux’s keynote speech at No More Apologies (a conference on the social and sexual exclusion of trans*women in queer spaces), Zachary Nataf’s compilation on lesbian views of transgender sexuality, Emi Koyama’s discussion of the Michigan Womyn’s Festival’s policies of excluding trans*women, and Stephen Wittle’s discussion of how feminist and trans* activisms intersect in defying the patriarchal order, I intend to join the discussion of what it means to be a trans*feminine individual. Society often overlooks the lives of trans*women, or stereotypes them when they do finally appear. While there are no easy answers to the question of how to create greater acceptance for those who defy the gender and sexual binaries, an important first step is to shed a light on this often-veiled group and show the marginalized lives they lead.

BRIAN MILLER

Sin to Win: Interpreting Questions of Economy and Morality in _Moll Flanders_

My research centers on shedding light on the more troublesome questions surrounding Daniel Defoe’s 1722 novel _Moll Flanders_ as it presents deceit, thievery, incest, and other sins contained within as ultimately unproblematic despite the text’s professed aim as a moral guide. I intend to show how the basis for allowing this seemingly potent contradiction a place in the text is inextricably linked to the historical context that ensconces both the novel and Defoe’s life and attitudes in a newly emerging system of personal, capitalistic economy. This shift in attitude that mixes religion with labor produces a strange effect by which the latter becomes a means towards the former in redemption, truth, and God. However, the tension that results between these combative ideologies produces some very risky business and, in fact, very little business at all, in that the once pristine soul crumbles into a handful of poker chips used to barter one’s way into a life of salvation. _Moll Flanders_ mirrors this ethos to a tee in the main character’s penchant to avoid a settled life for one of easy economic gain, despite her continual fear of damnation.

BRIAN MILLER

“Shiftless Math”

This memoir details the rise and fall of a friendship that spanned multiple years between myself and a savant-like individual gifted with powerful skills of interpretation and quantitative reasoning but surrounded by peculiar and debilitating circumstances. It attempts to tackle larger questions of responsibility between friends and the allure of placid immobility. The details of the memoir reflect actual events and people in my life and are related in the first person.

CHRIS MISENER

Steel City Vacancy

Pittsburgh is often thought of as a former industrial powerhouse turned declining rust belt city. It has been the headquarters of some of Americans’ most successful corporations and produced infamous giants of industry. Pittsburgh has also been the
victim of debilitating pollution and population losses as a result of suburbanization. A
decaying population and an exodus of industrial jobs have created many problems;
vacancy being just one of many. This project examines the effects of vacancy and
blight on individual neighborhoods and the entire city. It is a problem that impacts
many aspects of city life, and solving it takes decisive, long term planning. The
presented research also explores available solutions Pittsburgh has at its disposal to
tackle this growing problem. Vacancy and blight are not problems exclusive to
Pittsburgh; other rust belt cities face similar challenges.

Luis Morales
St. George Recoil Mass Separator Time of Flight and Position Sensitive Detector
The St. George recoil mass separator at the University of Notre Dame will be used to
study \((\alpha,\gamma)\) reactions of astrophysical interest. A detection system being developed
for St. George at Indiana University South Bend and Notre Dame will utilize energy,
time-of-flight and position to separate reaction products from residual unreacted beam
particles. A design for a timing detector has been investigated -- a combination of
electrostatic plates with magnetic deflection. The design deflects secondary electrons
produced by the passage of an ion through a thin carbon foil onto a microchannel
plate (MCP) detector, which registers timing and position measurements. A detailed
analysis of timing and position resolution for the design was conducted using the ion
optics simulation software SIMION, in order to identify the configuration best suited
for the challenges presented by these low energy and low count rate experiments.

Michael A. Moreno
Girls, Gore and Gears: Gender and Genre in Death Proof
Quentin Tarantino’s films have been difficult to classify within the cut and dried rules
of film genre, and his film Death Proof (2007) is no exception. Tarantino’s tribute to
bad girls and American muscle cars bisects the movie’s genre into both horror and
action. The director’s use of female characters and their costuming, acting and
motivations fundamentally change the genre of the movie around them. There are two
distinct groups or women in the film, one of which survives and one that does not.
Each woman’s behavior and motivation will seal their individual fates.

Kyle Muntz
Tristram Shandy and the Error of Human Reason
The aim of my presentation is to frame Tristram Shandy within a larger philosophical
debate concerning the nature of human knowledge in relation to philosophy and
science (or, as they were called together, “The Natural Sciences”). Epistemologically,
this entails the transition from what Ian Hacking calls “a conceptual organization in
terms of resemblance to one in terms of representation.” By resemblance, I take him
to mean the relationships between ideas, in the philosophical tradition represented by
Descartes: where the human mind, with perfect certainty, was presented as shining a
light into the darkness and revealing the true shape of things beneath. This tradition
was challenged by Hume’s argument that, in the end, reason is ultimately
untrustworthy—there are many things that we can never know, because reason itself
is flawed. In every conceptual system (a representation) emerges a gap between our
understanding and reality, and in that gap is error, the end of all certainty. Positioning these two strains in “Natural Science” against each other, I hope to show that Tristram Shandy is a novel in the tradition of Hume, which—at least in relation to the philosophy of its time—illustrates the breakdown of human reason; the realization that all things are uncertain.

SARAH E. MYERS
Spatial Analysis of Artifact Distribution at Bailly Homestead, Porter County, Indiana
The Bailly Homestead complex in the National Park Service Indiana Dunes National Lakeshore is listed as a National Historic Landmark for its significance in early Euro-American settlement in northern Indiana. The site underwent a series of geophysical surveys and test excavations in the 2012 field season by archaeologists and field school students from Indiana University South Bend, the University of Notre Dame, and the NPS Midwest Archaeological Center. Due to numerous alterations during and after the historic occupation it is useful to research spatial analysis of artifact distribution based on preliminary shovel test probes, and larger, controlled excavation units. Using Quantum GIS, material density recovered from shovel test probes is examined in correlation with the 1x2 meter units that were excavated at the site. Further knowledge of the integrity and information value of archaeological resources at the Bailly Homestead may be gleaned from GIS analysis of the site.

JULIO NAVARRO
Becoming a More Bicycle-Friendly City: Collecting and Projecting Bicycle-Usage Data in South Bend, IN
Bicycle and Pedestrian counts are important tools for planners, governments, and pedestrian professionals. The goal of this study is to formulate predictions from counts, test the count accuracy, and explain any discrepancies. From the NBPD (National Bicycle and Pedestrian Documentation Project), predictions for annual bicycle estimates were established and those estimates were examined. Furthermore, key anomalies were further explored and explained, ensuring the validity of the process for extrapolating yearly figures. The need for further counts, estimates, and evaluations is paramount for making any city optimal for non-vehicle transportation.

KAWEME NG’ANDWE
Foreign Policy Success and Public Opinion: the Affects of the Obama Administration’s Foreign Policy Achievements
Despite the increasing importance of international relations, the American public generally knows and pays little attention to foreign affairs if they are not relevant to their daily lives. This study considers the effect, if any, of the Obama administration’s foreign policy achievements on the public’s opinion of the president through quantitative public opinion polls and approval ratings. Ranging from the end of the Iraqi war to steps made in the control of nuclear weapons, the study focuses on the achievements of the administration’s foreign policy goals. Analysis of the data will determine whether the goal was successfully met, meaning the administration did what it set out to do and strong support and there is little to no opposition in response. The study also examines the president’s approval ratings in the periods before and
after the policy achievement and notes, any difference between the two. Based on a review of the academic literature on presidents and foreign policy, I hypothesize that following the success of a foreign policy goal, there is only a brief period of improvement in public opinion and approval ratings of the president. This research will contribute to future research on the role of the public in foreign policy making and presidential legacies.

ERICA OVERTON
Lonely in America
I am presenting my paper, “Lonely in America” which is a critical analysis of American culture post 9/11. In my paper I use the lyric poem “Don’t Let Me Be Lonely,” as well as primary and secondary sources to analyze the disconnection that has occurred in our culture since the 9/11 attacks. I discuss how Claudia Rankine demonstrates this disconnection and feeling of loneliness, not only through the stories and examples she uses, but in the way she writes her lyric, as well as in the tone she uses throughout her work. The primary and secondary sources support the argument that our culture has in fact suffered a sense of disconnection from one another, as well as demonstrate the sense of loneliness that Americans feel in our ever so crowded world.

MICHAEL PARTRIDGE and HOLLY CAPARELL
Electrochemical Analysis of Steroid Hormones in Water
There is a growing concern over the occurrence of steroid hormones (SEs) in the environment due to anthropogenic activities. These compounds originate from agriculture, industry, humans, household products, and other pharmaceuticals. SEs have properties of endocrine disrupting chemicals, and have been shown to disrupt the endocrine system of many aquatic species at low concentrations. Due to the potential negative effects associated with these compounds, and their ubiquitous presence in the environment, their monitoring and detection is important. In our community, SEs are suspects in feminization of male fish along the St. Joseph River. Progress in analytical method development for the determination of SEs in water will be presented.

KRISTY PATTERSON
Pictorial vs. Live Representations of Eye Contact Between Opposite-Sex Pairs
Eye-contact is a very important nonverbal behavior that can be used to indicate a wide variety of signals, varying from affection to intimidation (Hillabrant, 1974; Scherer & Schiff, 1973; Thayer, 1969). Studies have revealed that females tend to experience feelings of liking and intimacy both when they themselves are engaged in eye-contact and also when they view other opposite-sex pairs engaged in eye-contact (Thayer & Schiff, 1977). Interestingly, this phenomenon of increased feelings of liking only occurs when live people are observed, and does not occur when looking at pictures of people engaged in eye contact. In this study we investigate if this effect is due to the absence of live people (and the possibility of interaction with them) or to the loss of motion information that occurs in a picture. Female participants were shown either pictures or videos of eye-contact between opposite-sex pairs and were
asked to evaluate the feelings of liking between the opposite-sex pair. Results suggest that eye-contact caused increased liking only for the videos of eye-contact. Implications for social interaction and information processing are discussed.

QUEST PICKENS
Translation of "La Promenade de Picasso" by Jacques Prévert
I chose the poem entitled “La Promenade de Picasso” by Jacques Prévert. Jacques Prévert fought in World War I and his poetry and collages were influenced by surrealism. In his texts, Jacques Prévert challenges the politics of his time and engaged in redefining art. Indeed, in “La Promenade de Picasso” a painter attempts to paint an apple but the apple refuses to be captured by the artist; it won’t pose for the painter and prevents him from approaching art as the replica of the real. Translating this poem has been a challenge for me as I felt that this poem, like the apple, refused to pose for the translator too! Translating a poem literally is not an option: a translation is not an instant copy of the original. In this presentation, I will concentrate on word choice as it pertains to setting the rhythm and tone of the original poem.

SARAH A. RATKIEWICZ
Unconscious Intolerance: Automatic Evaluations of Race-Related Stimuli
Over the past half-century, explicit prejudice has become less socially acceptable, and self-reported rates of prejudicial beliefs have decreased accordingly. However, measures of subconscious and/or automatic prejudice, known as implicit prejudice, reveal that many people hold a greater amount of prejudicial beliefs than they are willing or able to report. This paper evaluates research in psychology that examines prejudice mediated by automated, bottom-up processes, with a specific focus on research into the brain structures implicated in reactions to race-related stimuli. The review also examines the evidence for several proposed contributing factors to implicit prejudice, as well as possible factors in self-regulation and ways to reduce automatic prejudicial evaluations.

LOWELL B. RITTER
Effect of Media on Vote Choice
Various news media outlets are consistently being blamed for biased reporting, particularly during presidential election cycles. Because many Americans experience an election only through news media, it would be troubling if this were accurate. It is well known that media play a large role in elections, but to what extent is not agreed upon. U.S. citizens, in general, believe the media plays at least some role in their vote choice. Political Science scholars, however, have found that media have very little effect on the choice of voters. This study is an examination of the media, the U.S. voters, and the election outcomes; it attempts to determine what relationship, if any, there is between the three. To find this relationship or no relationship, I examine research conducted by prominent Political Science scholars, previous extensive election studies, and the results of a survey distributed to the IU South Bend community (IRB study #13046, approved 3/30/13). It is learned through these sources that the media may not have a large direct effect on the choice of voters. These results
are potentially generalizable for all elections due to the fact that the studies have been completed during different election cycles with a similar result. The knowledge gained through this research further supports other Political Science research that has come to a similar conclusion.

JUSTIN SAMSON
The Link of Religiosity and Peers
In a recent poll (pewpoll.com), Christianity is no longer the dominant religious preference in the United States. It has been replaced by the religious preference of atheism. The goal of my research is to find out what exactly is causing this shift of religiosity preference. In my survey research, I have narrowed my search down to the following three variables: the teachings of the church, peer pressure, and the level of education that one receives. I predict that these three variables will lead to a personal struggle which then will impact a person’s beliefs both positively and negatively. I also predict that education will be the greatest factor, followed by the teachings of the church, followed by peer pressure.

KATIE SEBASTIAN
Do You Remember?
Embodied and Embedded Cognition is the view that your physical body and the world it inhabits are as important to cognition as your brain (Barsalou, 2008; Wilson, 2002). Research has suggested that a person’s environment is actually part of their cognitive system (Wilson, 2002). If this is the case, then you should be able to process and retain information better when environmental characteristics match the information. We investigated this theory by asking subjects to memorize words presented on a computer monitor. These words were associated with either the sky (e.g., cloud) or the ground (e.g., dirt) and were presented in either the correct location (e.g., sky words presented near the top of the monitor) or in the incorrect location (sky words presented near the bottom of the monitor). Results suggest that words presented in the correct location were remembered better than words presented in the incorrect location. Implications for Embodied and Embedded Cognition and cognitive processes are discussed.

NAOMI SHELBY
Current Attitudes on Body Modification
Modification of the human flesh has been common in various cultures worldwide for centuries. Although current and future projected trends seem to indicate that tattooing and piercing are becoming a mainstream facet of U.S. culture, this has not always been the case and in fact there is still controversy about how mainstream these modifications truly are. The purpose of this study therefore, is to clarify some of these contradictions, to capture a comprehensive picture of current attitudes and beliefs, and to pave the way for future research needed on this body of work. This information should ultimately provide more accurate insight for those interested in body modification procedures, and the social and professional consequences that accompany. The current study aims to combine data on Big Five ratings with data on perceptions of non-conformity and employability, two variables yet to be explicitly
examined in past literature. Because the present study is a combination of various previous works and hypothesis, we do anticipate to see some overlap in the findings. That is, we hypothesize that modified characters will be perceived less favorably than will non-modified characters, we hypothesize that non-modified participants will rate all characters less favorably than will modified participants, and we hypothesize that non-modified participants will rate characters that are both tattooed and pierced least favorably. However, to what extent modified individuals are perceived is unknown and we hypothesize that current attitudes about body modification will be much more accepting than other researchers have found.

TRACY SHELTON
The Dangerous Minds of Women: Maria Edgeworth's *Belinda* and the Problem with a Lady's Education in the Eighteenth Century

The characters in the novel *Belinda* are important representatives from this period: Harriet Freke, the gender bending best friend of Lady Delacour, represents everything a woman shouldn’t be; Lady Delacour, the spoiled lady who was the perfect ideal of what a lady should be though she is unhappy with her lot in life; Lady Percival who enjoys her family, being a mother and a friend to her husband; Virginia, who was hidden away from society and has a mind just waiting to be molded; and finally Belinda, the girl who watches everything with smart caution. Education of women was something debated regularly. The consensus was women should be educated in topics such as sewing, speaking French, and being educated enough to discuss some light topics with their husbands. The political world wasn’t for women, nor was writing or any sort of education that men received. I am interested in exploring the viewpoints of both those men who were vehemently against the education of women; and those women who rose up and stated that they were just as capable and deserved the education beyond what they were receiving. I believe that women were kept from a good education because the fear was if she were to gain more knowledge she might use it. If she uses it she might turn her nose up to marriage. When men married they received a dowry. Women’s education was forfeited for the very purpose of keeping the money flow in a steady stream.

LAMA ROXANNE Sirhan
Development of a Biosensor for Diagnosis of Normal Pressure Hydrocephalus

The diagnosis of normal pressure hydrocephalus (NPH) is commonly difficult and inaccurate, due to symptoms being unclear. Therefore, there is a need to develop a method to sensitively diagnose NPH through the use of monitoring biomarkers that have shown promise in recent studies. Neural cell derived biomarkers, such as myelin basic protein (MBP), makes up part of the cerebrospinal fluid (CSF) protein composition and is a possible biomarker to be used for biosensor development. Biosensors are based on the interaction between an antibody and antigen and applying molecular bio-recognition detection to yield quantitative information. The biosensor was constructed using a potentiometric system containing reference and working electrodes. Impedance measurements were used in order to monitor the antibody-antigen interaction. The development of biosensors for diagnostic methods has been prominent in the last decade. The use of electrochemical methods provides a simple
and sensitive method for patient diagnosis. Monitoring biomarker levels allow for a reliable diagnostic method. Monitoring MBP in CSF is a novel method to study the active breakdown of MBP, which is an important aspect to study in disease conditions such as in NPH and multiple sclerosis. Future work will tend to focus on the main challenge of optimizing conditions for stabilizing measurements. With the development of biosensor the ultimate goal is to bring electrochemical techniques to the patient’s side for use.

DOMINIC SOBIERALSKI

_Moll Flanders:_ Slipped through the cracks of the labor force or squeezed her way through?

My presentation is going to be on 18th century availability of female employment versus prostitution. I am going to use historical content to show that there was ample employment available for a woman in the 18th century to sustain them and that they didn't need to necessarily resort to a life of prostitution or whoring. I will also show that married women of tradesmen also helped out in the husband's shop to be able to be useful and help the business to prosper. In _Moll Flanders_, Moll seems to start out learning a trade (as a seamstress), but doesn't seem to keep up with it. Instead, she lives the life of a whore, and that of a thief. The stake of the argument is to show that back in the 18th century there were professions that women could undertake instead of prostitution and I believe that it directly identifies to today and the fact that there is employment available for women and that prostitution should not be viewed as an option.

NICOLE THORNTON

Effects of increased CO2 on growth, survival and reproduction of the invasive snail, Pomacea canaliculata.

While quite a few studies have been done concerning the effects of ocean acidification on marine organism growth, reproduction and survival; fewer studies have been done about the effects of acidification on freshwater organisms. Here, we show the effects of three levels of CO2-related acidification (pH 7.7, 7.3, 7.0) on growth, survival and reproduction in the invasive freshwater apple snail (Pomacea canaliculata). In the first experiment, CO2 was used to lower water pH to 7.7 and the control tank had no added CO2 (pH 8.1). Growth, reproduction, and survival were recorded each week for four weeks. The rate of snail growth was lower in the pH 7.7 treatment, but no difference in number egg cases laid or the mass of egg cases was observed between control and CO2 treatments. Survival was also significantly impacted by pH; only 53% survived at pH 7.7 compared to 100% in the control. In the second experiment, the CO2 tank was maintained at pH 7.3 and control tank at pH 7.8. Over a 4 week time period, we observed no difference in snail growth, survival, number egg cases laid or mass of egg cases. In the third experiment, the CO2 tank’s pH was lowered to pH 7.0 and compared with the control tank (pH 7.9). Apple snails grew more slowly in the CO2 treatment, and survival decreased to 60% at pH 7.0 compared to 100% in the control. These results suggest that increased freshwater acidification may slow growth rate and lower survival in the apple snail.
MARISQA TOTH-BOWERMAN
“The Cycle of Coupons, Ink, House Cleaning, and School”
This is a piece of flash non-fiction I wrote for my Creative Non-Fiction class. This piece is inspired by one of the three jobs I work so that I can attend college without going into debt.

LACEY VAN HULLE
A Friendless Society: The Origins of Contrived Relationships
My presentation will be an exploration of how Maria Edgeworth’s novel Belinda (1800) illustrates the necessity and contrast between superficial friendships demanded by society and true friendships based on trust. Historically, in eighteenth century Britain, in the interest of propagating a patriarchal society, English philosophy ascertained that women were expected to reflect beauty and gentleness of manner while men were projected to retain authority as the higher sex by exhibiting reason and proper logic. This caused the ideas of sensibility and taste to come to the forefront in people’s attitudes, especially toward women and children. “Good taste” according to the precepts of society was considered evidence of being a refined individual. Sensibility, within this period, was the practice of exaggerating emotional responses for the sake of exciting admiration and sympathy from peer relations. High society of this time attempted to mold personalities intentionally, by brainwashing from the moment of birth. The result of this was often disillusionment and discontent. It was common in the eighteenth century in the higher tiers of society to seek the approval of peers even more than self-approval. When Edgeworth wrote Belinda, she seemed to be exhibiting a trend in society to look inward toward the dissatisfaction of maintaining outward appearances rather than ensuring self-fulfillment of personal choices. My presentation will be an attempt to expand upon some of the aspects of the effects, propensities, and consequences of these trends. Because society today still struggles with these issues, I feel we should examine them.

RACHEL WARRELL
NIS Oxidation of Alcohols to Carbonyls
In this project we explored the reactive capabilities of N-iodosuccinimide with complex alcohols and developed a procedure for high percent recovery of carbonyl products. The focus of this project was to determine the plausibility of NIS as a safer and more environmentally-friendly substitute for chromium-based oxidants.

RICQUEA WILKINSON
The Oral Chemical Environment and the Survival Strategies of the Oral Bacterium Bifidobacterium Dentium
Bifidobacterium is a group of beneficial bacteria found in our digestive tract and often used in probiotic applications. However, Bifidobacterium dentium, one of the few pathogenic species, is found in diseased mouths only. Whether helpful or harmful to the host, Bifidobacterium must possess mechanisms to survive harsh conditions, such as acidic pH and oxidative stress commonly associated with its host environment. It was shown previously that exposure to oxidative stress provokes a response that involves poly phosphate (Poly P) granule formation, which makes
Bifidobacterium more resistant to acid and a better colonizer. Poly P production therefore can be used as a measure for bifidobacterial survival potential. We examined several factors associated with oral diseases and whether they can stimulate Poly P formation in B. dentium. When oral bacteria ferment sugar, they produce acid, which in turn dissolves tooth enamel and releases minerals, such as calcium and phosphate. This could potentially stimulate Poly P production, and enhance survival in the now acidic environment. Indeed our data showed these minerals stimulated Poly P production in B. dentium. In addition, sucrose, commonly known as table sugar and shown to be associated with cavities, stimulated a greater level of Poly P formation than glucose in our study. Surprisingly, another factor, indole, which is known to be produced by oral pathogens, decreased Poly P production in B. dentium, but enhanced its survival in acid. Taken together, the minerals, the sugar source, and the volatile metabolite may be responsible for the survival of this organism in the very hostile environment of dental cavities.

CHRISTOPHER WILLIAMS
The Incomplete Complete: The Importance of What Was Left Unsaid in *Tristram Shandy*
My presentation will investigate the language of *Tristram Shandy* by Laurence Sterne and why his leaving out of some of it is important. So much has been dedicated to working out the meaning of it all that some people even argue that they know exactly what the asterisks throughout the novel mean, even in passages where there is very little to no context at all. The problem with arguing for what they mean is that no one but Mr. Sterne himself will probably ever know. On the other side of the argument is the scholars who want to ask the question, is the novel *Tristram Shandy* complete? This side is based off of tertiary evidence such as letters Laurence wrote to a colleague. I will argue that his leaving out of certain words should be understand as purposeful, but also how there should not be one correct answer, but multiple correct answers based on the reader. This is important because as a novel which plays with form so much, it should be understood that this is a novel which only completes itself when it is read, and that each version from person to person is going to be different.

AIMEE YARDE
Effects of Garlic Mustard on Plant Species Diversity and Soil Fungi
Garlic mustard (Alliaria petiolata) is a non-native biennial herb that is rapidly displacing native plant species in forests throughout Southern Canada and North America. We investigated whether garlic mustard removal has short-term effects on plant diversity. Six pairs of plots were established where garlic mustard plants were removed in one plot and left intact in an adjacent plot. Plant richness and abundance were measured after 4 weeks. Results from this experiment showed relatively few differences in understory plant diversity over this short time period. Additionally, a second experiment was used to determine whether roots of garlic mustard affect growth of endophytic fungi isolated from native and non-native biennial plant species. We found that Fusarium fungi grew faster when exposed to the same plant host species that the fungi were isolated from. Fusarium growth was inhibited when exposed to non-host species. These results suggest that native and non-native plant species exude chemicals that can affect growth of soil fungi.
HANSONG ZHANG
Effects of Mindfulness on Depression

Mindfulness refers to a particular way of orienting one’s attention to the present moment. Common definitions of mindfulness usually involve paying attention in a particular way: “on purpose, in the present, and nonjudgmentally.” (Brown, Ryan, & Creswell, 2007; Kabat-Zinn, 1994; Thompson & Waltz, 2007). The beneficial clinical effects of mindfulness practices are receiving increasing support from empirical studies, especially from studies about depression (Hamilton, Kitzman & Guyotte, 2006; Raes, Dewulf, Van Heeringen, & Williams, 2009; Singh, Lancioni, Winton, Adkins, Singh & Singh, 2007). Even though it is universally accepted that mindfulness has positive effects on depression, how this works remains as a debate. On one hand, several researchers argued that mindfulness affects depression by reducing cognitive reactivity (Thompson & Waltz, 2007) and modulating emotions (Chiesa, Serrate, & Jakobsen, 2013). In other words, mindfulness limits emotional affects. On the other hand, other researchers proposed that mindfulness simply increases positive affect and sense of well-being, as suggested by the “happiness intervention study” (Seligman, Steen, Park & Peterson, 2005) and a few exploratory studies (Deng, Liu, Leung, You & Tang, 2010; Collard, Avny & Boniwell, 2008). The current study investigated the conflict between these two types of contradictory theories. Results suggest that mindfulness acts by limiting emotional effects. Implications for treatment of depression will be discussed.