Schedule

Friday, April 16, 2010

8:30 – 9:00 am  Registration  DW east hallway

9:00 – 10:00 am  First Concurrent Sessions  DW 1160 – DW 1260

10:00 – 10:45 am  Poster Presentations and Coffee Break  DW east hallway

10:45 – 11:45 pm  Second Concurrent Sessions  DW 1160 – DW 1290

12:00 – 1:15 pm  Lunch and Keynote Presentation  The Grille

1:30 – 2:30 pm  Third Concurrent Sessions  DW 1160 – DW 1260
ACKNOWLEDGEMENTS

The organizers of this conference (Julie Elliott, Lee Kahan, Andrea Rusnock, and Yilei Qian) would like to thank all the students who have taken the time and made the effort to present their research or creative activity at this conference. We hope that they continue to be life-long seekers of knowledge. Their faculty mentors (named in parentheses in this program) are also to be commended for their dedication to developing scholars.

We appreciate the support provided to this conference by Vice Chancellor for Academic Affairs Alfred Guillaume. This event is made possible with funding from his office and time donated by committed IU South Bend instructors and staff—including the members of the Undergraduate Research Advisory Council.

Finally, we would like to thank Jonathan Kitchens for contributing his artwork for the conference poster and program cover.

PROFESSIONAL COURTESY

Please be considerate during the student presentations. Participants in a session should remain in the room during their colleagues’ presentations. The research delivered in each session may offer new and relevant information from which they can expand their own ideas. Other audience members should refrain from entering and leavings session rooms during presentations so as to cause the least disruption.
FIRST MORNING SESSION

Politics (DW 1160)
Moderator: Jonathan Nashel

9:00  “Who Among Us Would be Content:” John F. Kennedy’s June 11, 1963 Civil Rights Address
      Sara J. Lowe (Nashel)

9:15  All Politics is Not Local
      Benjamin P. Parsons (Smith)

9:30  Non-Jewish Migration and Societal Security Policy in Israel
      Caitlin Grace Worm (Karakatsanis)

9:45  The Merits of Judicial Selection
      Angela Johnson (Bennion)

Community (DW 1170)
Moderator: Jamie Smith

9:00  The South Bend Farmer’s Market as ‘Third Place’
      Katherine Parker (McGuire)

9:15  Neighboring in Woodlawn: How Individual Characteristics Affect the Amount of Interaction between Neighbors
      Tori Campbell (McGuire)

9:30  The Influencing Factors on Neighborhood Cohesion in Elkhart, Indiana’s Woodlawn Neighborhood
      Brian Garcia (McGuire)

9:45  Talking the Talk, Walking the Walk: A look into South Bend and the Creative Class
      Eran Markiewicz (Smith)
Eighteenth-Century Literature: Richardson’s Pamela (DW 1180)
Moderator: Kelcey Parker

9:00 Pamela’s Closet Feminism
Holley Ambrose (Kahan)

9:15 The Masquerade of Pamela
Adam Edward Kintz (Kahan)

9:30 The Diabolical Mrs. Jewkes: The Fictional Characterization of the Jewish Persona in Eighteenth-Century Literature
Diana Wenger (Kahan)

Readings: Fiction (1250)
Moderator: Anne Magnan-Park

9:00 Engrossing and Our Child
Cody Miller (Parker)

9:15 Waiting for a Pardon
Kyle Schrader (Parker)

9:30 Vultures
Jordan Eashe (Parker)

9:45 For the Love of Rosalie’s Toe
Terrie Phillips (Parker)

Health and Well Being (DW 1260)
Moderator: George Candler

9:00 Healthcare in Haiti
Chloe VanDenBrink (McGuire)

9:15 Creativity and Positive Affect: Is High Creativity Dependent on Elevated Mood?
Christopher Drapeau (DeBrule)

9:30 Adult Children and Depressed Parents
Mercedes Johnson (McGuire)

9:45 Causes of teen pregnancy
Gabriela Resendiz (McGuire)
POSTER SESSION AND COFFEE BREAK

10:00  View the following posters and talk to presenters while enjoying coffee and doughnuts

Chemiluminescence Detection of Peroxidase Activity
Amanda Groendyke, Jonathan Ellis and Kennedy Kafatia (Anderson)

Determination of pathogenicity and diversity of *Fusarium* strains infecting *Hydrophyllum appendiculatum*.
Elaina Breznau (Marr)

A Test of Culture Conditions that Yield high Lipid Content While Maximizing Growth Rates in the Microalgae *Scenedesmus*
Donovan Hawkes (Marr)

Analysis of Trimethylamine Oxide and Chemical Kit Development
Myron Bontrager, Kate Willms (Anderson)

Improved Purification Method for Heterologously Expressed Heme Dependent Chlorite Dismutase
Gabrielle Marin Johnson, Jacquelyne Ann Krull, Jeannette Uwase (Anderson)

IU Test – Web-based Testing System
Samuel Njoroge (Adaikkalavan)

The Effects of Expressive Writing on Working Memory Capacity
Giuseppe Marturano (DeBrule)

Preliminary Effects of Expressive Writing and Exposure Writing on Measures of Trauma and Depression
Giuseppe Marturano, Esther Hendrick, and Natalie Galbraith (DeBrule)

Women in the Visual Arts: Homage to Rachel Ruysch
Melissa Van Dierendonck (Rusnock)

Women in the Visual Arts: Homage to Kay Sage
Katie Swiental (Rusnock)

Women in the Visual Arts: Homage to Diane Arbus
Brittany Verhamme (Rusnock)
SECOND MORNING SESSION

**American Diversity** (DW 1160)
Moderator: Hayley Froysland

10:45  Religion within the Native American People  
Tracy L. Axline (VanderVeen)

11:00  The Great Compromise or the Great Controversy: The Bracero Program  
Kim Carlisle (Froysland)

11:15  Latino Barriers and Challenges to Higher Education  
Roy Saenz (McGuire)

11:30  How Current Immigration Policies Affect Immigrants  
Miguel A. Quijada (McGuire)

**Media** (DW 1170)
Moderator: Ni Chang

10:45  American Humor: the Social Boundaries  
Kammye Madden (McGuire)

11:00  Media Propaganda and the Contra War  
Megan Huge (McGuire)

11:15  Social Networking  
Joe Walter (McGuire)

11:30  Cyber Hooligans: Theorizing Football Hooliganism, Technological Choices and Class Struggle  
Markus Krusche (McGuire)

**Visual Signs** (DW 1180)
Moderator: Alison Stankrauff

10:45  The Mark of a Dancing Girl  
Ian Wells (VanderVeen)

11:00  Lilly Martin Spencer  
Tabetha Coburn-McDonald (Rusnock)
11:15  The Clandestine Caregiver: The Role of the “Father” in Blank Wall and The Reckless Moment  
Brandi David (Roth)

11:30  "The Lasting Legacy of Rameses II's Architectural Masterpiece at Abu Simbel"  
Laura Fox (Nilsen)

**Gender (DW 1250)**  
**Moderator: Neovi Karakatsanis**

10:45  Postmodern Motherhood  
Brandyne Chapla (McGuire)

11:00  Gender Division of Household Labor  
Melissa Papp (McGuire)

11:15  Gender and Muscles  
Kaitlyn Foreman (McGuire)

11:30  Intersection of Identities: Women in Christian Subcultures  
Maureen Pickar (Gerken)

**Literature and Culture (DW 1260)**  
**Moderator: Rebecca Brittenham**

10:45  Science and Sentiment: George Eliot’s Epistemology in Middlemarch  
Hannah Stowe (Gindele)

11:00  A Doomed Reign: The Duke’s True Shame in Robert Browning’s “My Last Duchess”  
Chloe Lawrence (Kahan)

11:15  An Investigation of Don Juan Tenorio in El Burlador de Sevilla  
Daniel Chmielewski (Hernando)

11:30  Flights of Fancy: The Creative Process of IUSB’s Study Abroad Programs  
Rebecca Gibson (Lidinsky)
The Art of Looking: Women and French Cinema (DW 1290)
Moderator: Chu He

10:45 When Girls Make Movies
Laura Magliossi

11:00 The Male Gaze Undone
Timothy Dann-Barrick

11:15 The Double Sense of Irony: To Die to Live
Denisse Hernandez

11:30 On the Broken Road Home
Stephanie Doczy

LUNCH AND KEYNOTE PRESENTATION (The Grille)

12:00 Behind Bars: A Woman-Centered Approach To Working With Incarcerated Mothers
Dr. Gordana Eljdupovic

Presentation of SMART Merit Awards
Doug McMillen, Acting Dean of the College of Arts and Sciences

Merit Award Winners:

Social Sciences: Caitlin Worm, "Non-Jewish Migration and Societal Security in Israel." Political Science. Mentor: Neovi Karakatsanis

Sciences: Elaina Breznau, "Determination of Pathogenicity and Diversity of Fusarium Strains Infecting Hydrophyllum appendiculatum." Biology. Mentor: Deb Marr
AFTERNOON SESSIONS

Criminality and the Law (DW 1160)
Moderator: Daniel DeBrule

1:30  Taphonomy and Weather
      Theresa Barnett, Aimee Aikins (VanderVeen)

1:45  Reducing Recidivism in the United States: Incarceration Versus Rehabilitation
      Brian Payne (McGuire)

2:00  The Need for Gender Specific Substance Abuse Treatment
      Dawn Ryman (McGuire)

Special Session: River Crossing (DW 1170)
Moderator: Bryce Merrill

1:30  Understanding River Crossing: Qualitative Research on the Experience of Living on Campus at IUSB
      Doug William Belanger, Aimee Kathleen Bishop, Kelli Ann Carlson, Laura Amelia Chanon, Paul Bradley Drake, Ashley Lynne Greenlee, Seth Omar Harewood, Katie Brianne Hazelton, James William Knapp, Hillary A. Mannia, Dean Marcus McClone II, John Bryce Merrill, Abby Renee Miller, Stephanie Lynn Miner, Jennifer Ann Pace, Lauren Nicole Rieff, Gary Lee Simon Jr., Meagen Michelle Thompson, Vu Viet (Merrill)

Eighteenth-Century Literature (DW 1180)
Moderator: Bobby Meyer-Lee

1:30  Defoe’s Roxana and the Eighteenth-Century Marriage
      Cody Miller (Kahan)

1:45  Roxana’s Challenge to Patriarchal Society
      Corrine Hendrickson (Kahan)

2:00  Haywood’s Double Standard
      Jake Jones (Kahan)

2:15  Roxana Stays Virtuous While She Deals in Diamonds
      Rebecca Bukowski (Kahan)
Science (DW 1250)
Moderator: Rolf Schimmrigk

1:30 Application of a Bragg Peak Flattening Filter for Dose Delivery Utilizing Energy Stacking
Gregory Warrell (Hinnefeld)

1:45 Overproduction of Arsenite Oxidase in E.coli
Celeste Warrell (Anderson)

2:00 Developing a Nonresonant Acoustic Transducer for Superheated Fluid Detectors of Dark Matter Particles
Emily Grace Kuehnemund (Levine)

2:15 Bounds to Expectation Values for Atomic and Molecular Systems
Kayleigh Cassella (Marmorino)

Readings: Poetry and Prose (DW 1260)
Moderator: Clayton Michaels

1:30 Little Girl Lost
Sarah Duis (Parker)

1:45 The Forgotten Age
Leroy Ndlovu (Parker)

2:00 Me, Myself, and Something Cliche: A look at self through the eyes of Goggles
Chris Williams (Parker)

2:15 The Hermits
Amanda McKee (Parker)
ABSTRACTS

Holley Ambrose
Pamela’s Closet Feminism
Since the dawn of man there has been a gender battle concerning personalities and who is in charge. Tassie Gwilliam, in her chapter “Pamela and the Duplicitious Body of Femininity,” remarks on the seeming “duplicity” found within Pamela as a character. She suggests that this duplicity is encouraged by the very rules that condemn it. Raymond Hilliard suggests in his essay “Pamela Hillard also suggests that Pamela has some self-governing power when forced to fend for herself. In “The Problem of Pamela, or, Virtue Unrewarded,” Robert Donovan suggests that Pamela’s conduct is not really virtuous in that she does not resist temptation and is therefore not challenged enough to earn the title of virtuous. Donovan suggests that Pamela, while a conduct book, does not offer any “motivational” influence. I agree that society has created Pamela’s circumstances and she has withstood the tide by standing firm in her beliefs. She proves herself deserving of being a social climber by dressing with humility and holding true to her moral beliefs. She also exhibits the knowledge that she knows how to behave toward those who are her social equals and superiors. I disagree with Donovan’s assertion that there is no motivational influence by pointing out Pamela’s “closet conduct” and that she plants the seed for the women’s rights movement.

Tracy L. Axline
Religion within the Native American People
Throughout history we have tried to manipulate the Native Americans into our religious venue. But Americans do not understand why their religion is different and do not want to accept this realm of believing into a spirit realm. Through forensic Anthropology we are discovering new individual’s everyday and determine what the age, sex, and generation and even how an individual may have died. But with Indians there is the difficulty of burial and land rights that belong to the American Indians how does and Anthropologist due research on a typical area when it is not allowed. How can the American Indians and other religious groups along with researchers understand how this way of life is lived and accepted to others? Research is the key, but many steps will have to be taken for the deceased to be brought back to their spirit world and keep their dead at peace. Native American religion is not a religion we know today it is different. I am trying to understand how this religion show be look on and honored when research is being taken place on Native American remains. Through this presentation I hope to make a reader understand how religion is different throughout this culture. I want to be able to have a good relationship if the need ever arises in Anthropology if
remains need to be look at to determine death and put the body back properly with no disrespect to the Indians.

Theresa Barnett and Aimee Aikins
Taphonomy and Weather
This past November the Anthropology Club participated in staging a murder of a pig and buried the clothed carcass, along with some various material items, 20 inches below the surface. This event was in connection with the forensic anthropology class that is currently being taught this spring. Aimee Aikins and I will be comparing the taphonomy of the pig carcass to findings of human carcasses buried in a similar fashion. The pig suffered some blunt force trauma post-mortem which may also increase the rate of decomposition. How do the wounds look after decomposition has taken affect? Were the rates of decomposition the same for a human with similar trauma? We are also going to see how the weather conditions in northern Indiana affected the process of decomposition. With most of the current research in decomposition being done in regions where weather patterns are stable, how will this affect the carcass? Will the different material culture items that were buried along with the carcass decompose at a different rate in this ever-changing climate? Our research will provide the answers to these questions. We will be presenting a paper along with some slides from the excavation site.

Myron Bontrager and Kate Willms
Analysis of Trimethylamine Oxide and Chemical Kit Development
Trimethylamine oxide (TMAO) levels in the blood are important to shark physiologists because they correlate with the ability to survive in low and high saline concentrations. Female and juvenile sandbar sharks use byproducts of protein metabolism, urea and TMAO, in higher than normal concentrations to assist physiological demands of environmental salinity changes. Under normal conditions, high concentrations of urea are toxic because it denatures proteins. Sandbar sharks eliminate this problem by using TMAO, which stabilizes proteins in high urea concentrations. Chemical kits are important tools because they can be used in the field by scientists with varying academic backgrounds. An ideal TMAO assay kit would measure the concentration of TMAO in blood plasma samples using minimal equipment and supplies. To measure the levels in the blood, the TMAO must be reduced and then reacted to form a colored compound. Linearity was found for concentrations of TMAO standards in a range of 0.3 to 2 mM. A standard curve was used along with a standard addition, which is a method used to eliminate matrix effects from other compounds in a complex sample. Known amounts of TMAO standard were added to shark plasma samples, generating a
multiple standard additions curve, which was used to calculate the concentration of TMAO in the shark plasma samples. The concentration of TMAO in the shark plasma samples was 67.5 mM ± 19.2 mM which fall into the expected range of 60 to 90 mM.

Elaina Breznau
Determination of Pathogenicity and Diversity of *Fusarium* Strains Infecting *Hydrophyllum Appendixulatum*

*Fusarium*, a group of pathogenic microscopic soil fungi, can infect many plant species and typically causes wilt in susceptible species. The main goals of this research were to (1) determine the pathogenicity of 5 *Fusarium* strains isolated from three species of *Hydrophyllum*, a native forest understory plant, and (2) identify isolated *Fusarium* cultures to the species level using sequence data from 2 nuclear genes and 1 mitochondrial gene. Two plant inoculation experiments were done to test inoculation methods, determine whether 5 of the isolated *Fusarium* strains cause wilt in *H. appendixulatum*, and determine whether these strains differ in pathogenicity. An inoculum method in which diluted spore suspensions were applied to wounded stem tissue failed to cause wilt disease. The second inoculation method of applying fungal hyphae to stem wounds was successful in causing wilt. The 5 strains varied in pathogenicity, with 30–100% of plants showing signs of wilt. We found 9 species of *Fusarium* and 5 species of non-*Fusaria* fungi in *H. appendixulatum*, *H. canadense*, and *H. virginianum*. *Fusarium reticulatum* and *F. tricinctum* were the most common isolates. These species as well as *F. solani* were present in all three host species. Several fungal isolates showed different species matches depending on which gene was used in a BLAST search. This may indicate that these fungal strains are unique and not previously characterized.

Rebecca Bukowski
Roxana Stays Virtuous While She Deals in Diamonds

In Daniel Defoe’s *Roxana* there is much debate as to what the cause of the loss of Roxana’s virtue is and when that loss occurs. Critics have ignored that it is not the lack of a legal marriage certificate that causes Roxana to end in shambles, but it was her disregard for being able to limit herself. When Roxana was with her different men she normally took lovers one at a time and acted as wife to them and they treated her as a wife by providing for her. It was when she defied the monogamous relationship and sought multiple men that she came into complete control over her wealth. Once she no longer had a masculine buffer in the form of a single pseudo-husband between her and monetary wealth she lost her virtue. This can be seen through Roxana’s interaction with diamonds. Diamonds are the symbol of her virtue. As the value and
exquisiteness of the diamonds begins to grow so does the virtue of Roxana, but once she trades in her diamonds for paper money she has lost her virtuousness in a true act of prostitution with no way to recreate it.

Brandyne Chapla
Postmodern Motherhood
Motherhood is something that has evolved throughout history to contain different expectations from one era to the next, but one thing remains the same. Mothering is still being done primarily by one gender and that gender is still doing the work of mothering for no wages. The mothers of today are not only doing mothering as a full time unpaid career, but many are doing it while balancing another career simultaneously. I want to present on the evolution of motherhood, what this implies for our future, and identify negative aspects of motherhood that can be improved on through research derived from literature review.

Daniel Chmielewski
An Investigation of Don Juan Tenorio in El Burlador de Sevilla
My research paper is an in-depth look at the motives of Don Juan in the famous Spanish theatre play, El Burlador de Sevilla. After careful consideration of the intentions of Don Juan, I have proposed that he intends to reveal to society, and to the women that he seduces, the hypocrisy and lies that have sustained the hierarchical structure of society and that have sustained the hypocritical attributes of the women that he seduces. Don Juan detaches himself from society in order to serve as its ally. By committing the atrocious acts that are perceived as sinful, Don Juan reveals to society the cracks that have held it together. Indirectly, the death of Don Juan causes the hierarchy and the people that make up society to recognize and assume responsibility to make society a better place.

Tabetha Coburn-McDonald
Lilly Martin Spencer
Lilly Martin Spencer was recognized for her domestic genre scenes that had ability to humor her viewer while visually sending them a message of morality in the antebellum era. Restrictions were applied to women of the middle-class in which Spencer belonged, making it onerous to pursue a career outside the home, let alone in the art world. This did not stop Spencer from achieving recognition as one of the only nationally known female genre painters in the nineteenth century. Spencer’s career was abundant but not profitable, which was a constant struggle, since she was the “breadwinner” of the family. Lilly Martin Spencer’s style and subject was linked to the social and economic context in which she lived.
Kiss Me and You’ll Kiss the ‘Lasses is an example of the woman’s domestic sphere in the 1850’s, with a strong social undertone of equality that Spencer was so well known. This paper discusses many aspects of Spencer’s personal life and career, and the way the two influenced each other, which is reflected in her work. The political and social atmosphere will be discussed and the impact that it had on artist and the middle-class. Spencer’s Kiss Me and You’ll Kiss the ‘Lasses is also discussed, being one of her most famous works, that exhibits her talent as a genre painter, but also a artist that had the ability to breach the barrier of the private and public sphere.

Tori Campbell
Neighboring In Woodlawn: How Individual Characteristics Affect the Amount of Interaction between Neighbors

Neighboring can best be described as the day-to-day, mundane activities and interactions that individuals participate in while in their neighborhoods. When you borrow tools or a cup of sugar or visit casually with a neighbor, you are neighboring. There can be wide variations in the levels of neighboring among residents in the same neighborhood because individuals are not equally inclined to engage in this type of interaction. In this paper, I examine how gender, tenure in the neighborhood, marital status, and income affect neighboring. In this study, 245 homes were visited in the Woodlawn Neighborhood in Elkhart, Indiana, and 82 surveys were completed. After collecting the data and analyzing the results, it is apparent that there may be a relationship between high levels of neighboring and gender, income, and marital status. The research conducted for this study was completed at the request of the City of Elkhart, Indiana, and therefore, the findings will make a significant contribution to the community, as I will be providing the City of Elkhart with the data they need to better serve the residents of their neighborhoods.

Kim Carlisle
The Great Compromise or the Great Controversy: The Bracero Program

This paper aims to discuss the first major experiment of using Mexican guest workers for labor in the United States, the Bracero Program, which lasted from 1942-1964. Labor shortages at the beginning of World War II prompted the first discussions of an official program to introduce guest workers from Mexico in order to work during harvest time primarily in the Southwestern U.S. states. This international labor agreement was ground-breaking in terms of U.S.-Mexico relations, and the compromises required from both sides in order for it to be reached. The paper examines the views of both the U.S. and Mexican governments, as well as some bracero workers themselves (whose oral histories were gathered
through a cooperation of universities and the Smithsonian Museum to create an archive). It discusses the circumstances which led to the implementation of the program and those which kept it operating for over two decades. In addition, it explains the various reasons for which the program was terminated in 1964. I argue that, despite its generation of controversy throughout its operation, this program was an overall success, even if it outgrew its usefulness, due mostly to political and economic changes in both countries. The program proved to be a good experiment in improved U.S.-Mexico relations and an interesting basis for which arguments regarding guest worker programs today (both pro and con) gain their basis.

Brandi David
The Clandestine Caregiver: The Role of the “Father” in The Blank Wall and The Reckless Moment

In most films and novels, there is little connection between the domestic and dark sides of society. Elisabeth Sanxay Holding strove to connect these two genres in her novel The Blank Wall, published in 1947 and set during World War II. Sanxay’s novel follows Lucia, a typical housewife, who becomes blackmailed by Martin Donnelly, a crime figure, to protect Lucia’s daughter’s reputation. Director Max Ophüls’s 1949 adaptation, re-titled The Reckless Moment, takes place not long after World War II. In both versions, Lucia’s husband Tom is absent, creating an available role within the family for Donnelly to fill. In this paper, I argue that the void created by Tom’s absence is filled partially by Martin Donnelly, who becomes a romantic partner for Lucia and a father figure to the rest of the family.

Timothy Dann-Barrick
The Male Gaze Undone

Classic narrative cinema as a form perpetuates the objectification of women, argues Laura Mulvey in “Visual Pleasure.” That objectification is particularly evident in scopophilia, the pleasure of looking. By considering the character of Juliette in Roger Vadim’s 1956 film Et Dieu créa… la femme, one can see that scopophilia collaborates with the dominant culture of the time to produce the voyeur. However, by the 1980’s, cinema begins to question the dominance of the male gaze. To demonstrate this evolution, I will briefly contrast Et Dieu créa… la femme with Patrice Leconte’s 1989 film Monsieur Hire. Mulvey’s article, written in 1975, both criticizes the role of women in earlier films such as Et Dieu créa la Femme (1956) and paves the way for alternative films such as Monsieur Hire (1989) which question traditional roles such as that of the Femme Fatale.
**Stephanie Doczy**  
**On the Broken Road Home**  
In addition to the obvious meaning of the word “chocolat”, it is sometimes a slang term used in French to express being cheated or being deprived of something one believes one deserves. Claire Denis’ 1988 film, *Chocolat*, set in Cameroon during the colonial period, is a quasi-autobiographical tale about her childhood. The movie’s frame story suggests a desire to return home. Nostalgia is a term derived from the Greek that can be loosely translated as the ache to return home. Nostalgia is a common feeling for many of us. In the vast and terrifying world we face as adults, comfort seems scarce and sometimes we try to go back to the places that were safe. This is where we find France, the name of the film’s main character, at the beginning of the movie. Now an adult, she has returned to Cameroon to see the old house where she spent her girlhood. Using Tania Modleski’s analysis of *Gorilla’s in the Mist*, I argue that Denis avoids many of the shortcomings described by Modleski. In my view, Denis manages to create a powerful work of art by refusing to romanticize home.

**Christopher Drapeau**  
**Creativity and Positive Affect: Is High Creativity Dependent on an Elevated Mood?**  
The goal of this paper is to determine if high creativity is dependent on elevated moods. Multiple research articles were explored to determine the influences of affect, latent inhibition, and mental illness on creativity levels. While some articles demonstrated high creativity levels in elevated moods, others illustrated high creativity among those with mental illness, negative moods, and low levels of latent inhibition. Other factors that influenced creativity levels included high intelligence quotients (IQ), the personality traits of openness and extraversion, high levels of divergent thinking, hypomanic traits, and psychoticism. These results show that high creativity is not solely dependent on elevated moods, and can even occur in very high levels among those suffering from certain mental illnesses (i.e. bipolar disorder).

**Sarah Duis**  
**Little Girl Lost**  
Selections from a poetry chapbook about the dissolution of a relationship, an identity crisis, and the discovery of a dinosaur boy.

**Jordan Eashe**  
**Vultures**  
Two very different men, an academic and a hitchhiking ex-con, become stranded when their car breaks down in the desert.
Kaitlyn Foreman
Gender and Muscles

This research analyzes the male and female versions of *Muscle and Fitness* and *Fitness* magazines to understand how the media messages being sent to men versus women are different. Quantitative and qualitative analyses were conducted to examine models’ clothing, sex appeal, disposition, the type of workouts performed, and the focus on certain body parts. Advertisements, columns, and models throughout the magazines were analyzed. Results show men are portrayed as angry, dirty, strong, and tough, with a built upper body, strong sex drive, and little ability to cook. Women were portrayed as either amiable and submissive, or sexy and skin-bearing. Women were also portrayed as good cooks, with less of a focus on the opposite sex. Men are portrayed more often with free weights, displaying upper body strength, while women are portrayed doing more of a variety of workouts, including cardio. This study seeks to examine one portion of the media in order to understand how notions of prototypal men and women become integrated into our lives.

Laura Fox
The Lasting Legacy of Rameses II’s Architectural Masterpiece at Abu Simbel

From his childhood, Rameses II was heavily influenced by the architectural whims of his father, Seti I, the infamous builder of the Great Hypostyle Hall at Karnak. Through such a powerful early influence, Rameses II came to keenly understand the roles and impact that the use of architecture could have in uniting his kingdom. This presentation explores not only Rameses II’s patrilineal influences, but also the effects that Egyptian religion and Rameses II’s military campaigns and political maneuvers made in his unique architectural vision, as evidenced in his *magnum opus*, the *Temple at Abu Simbel*. Beginning with a brief exploration of his childhood inspirations, this presentation quickly delves into Rameses II’s significant military campaign with the Hittites. In order to demonstrate how this campaign impacted Rameses II’s architectural vision and execution, an exploration of the commemoration of this military triumph and how it is represented in the *Temple at Abu Simbel* will be conducted. Egyptian religious beliefs and the entailing pressures and obligations that Rameses II experienced as he worked to assert his relationship to the gods as god-king of Egypt will also be explained. With a basis for the religious context of his temple thus understood, religious imagery in the form of symbols, carvings, and statues that pervade the architectural design of *Temple at Abu Simbel* will then be investigated. Together, these influences combine to demonstrate the power that this
architectural masterpiece has had in shaping the landscape, history, and religion of Egypt’s people and culture.

Brian Garcia
The Influencing Factors on Neighborhood Cohesion in Elkhart, Indiana’s Woodlawn Neighborhood
This research paper attempts to identify neighborhood cohesion among neighbors in Elkhart, Indiana’s Woodlawn Neighborhood. The purpose for this paper is to identify the factors which influence neighborhood cohesion. In this research paper I pay particular attention to how residents in the Woodlawn neighborhood feel about the cohesiveness of their neighborhood, and the demographic characteristics which influence cohesion. The data for this research paper was collected in the fall of 2009, in which undergraduate students in the department of Sociology conducted door-to-door surveys of residents in the Woodlawn neighborhood. The main findings in this research paper identified that 62.9% of the residents felt that their neighborhood was cohesive. This research paper will recognize the factors which influence these findings, but also draw in from previously published works concerning neighborhood cohesion. This research is important as it identifies general information in the local community, and helps them recognize areas which might need improvement. Also, this research is important because it allows students to apply the teaching methods learned at Indiana University South Bend, but also give the Michiana community a sense of the value IUSB adds to the area, and how Indiana University shows is dedication to the citizens of Indiana.

Rebecca Gibson
Flights of Fancy: the Creative Process of IUSB’s Study Abroad Programs
The summer 2009 IUSB study abroad Paris/Lille/London program culminated in the production of my book, Flights of Fancy, an illustrated travelogue. Over the course of the two week trip, I visited many shops, museums, and events in the pursuit of information on the subject of letters and letter writing. I took almost 3000 pictures, over 200 of which went into the production of my book. Our faculty for the trip, and the writing and literature courses which accompanied the trip, were Dr. Joe Chaney, of the English Department, and Dr. April Lidinsky, of the Women’s Studies Department, and they both contributed to the creative and organizational process, lending minds and eyes to both my written work and my book layout. In my presentation to the URC, I will outline the benefits of IUSB’s study abroad programs, the creative process involved in putting together a book through the internet self-publishing site lulu.com, and some of the findings from my research into letters and letter writing. The presentation will not only show an example of self-
published undergraduate research, but will also highlight the wonders of overseas study.

**Amanda Groendyke, Jonathan Ellis, and Kennedy Kafatia**

**Chemiluminescence Detection of Peroxidase Activity**

Chlorite dismutase (cld) is the enzyme that catalyzes the reduction of chlorite (ClO₂⁻) to Cl⁻ and O₂. Cld is capable of releasing high quantities of O₂; therefore a practical application of cld is in wound healing. A future application could be embedding chlorite in a starch polymer film that covers the wound, allowing cld to produce copious amounts of O₂ that assist in wound healing. Cld has not been well-characterized and there is still much to learn. However, through spectroscopy it can be determined that cld contains a Fe-heme group. Cytochrome c is a well-characterized peroxidase, meaning that it is an enzyme which will catalyze the transfer of an oxygen from a hydrogen peroxide to a suitable substrate, causing the oxidation of the substrate. By having a heme group, it is promising that cld may have activity as a peroxidase as well. This research experiment was performed to determine if cld will react with peroxide in the same manner as cytochrome c. The results of purification and characterization will be discussed.

**Donovan Hawkes**

**A test of Culture Conditions that Yield High Lipid Content while Maximizing Growth Rates in the Microalgae Scenedesmus**

Microalgae have potential for use as biofuels. This requires harvesting the algae, extracting the oils for use as fuel and extracting carbohydrates for fermentation as a source of ethanol. One challenge for the biofuel industry is that culture conditions that maximize algal growth rates often result in lowering oil, lipid, or carbohydrate production. The purpose of this study was to determine which pH and fertilizer sources yielded the greatest amount of oils and lipids in *Scenedesmus*, a freshwater green algal species that has a widespread distribution in North America. Algal cultures were grown in a fully factorial experimental design with two pH treatments (6.5 pH vs. 8.0 pH) and three fertilizer treatments (fish emulsion, miracle gro fertilizer, compost tea). *Scenedesmus* cultures grown at pH 8.0 and fish emulsion fertilizer had higher growth rates over four weeks compared to other pH/fertilizer treatments. However, algal cultures grown at pH 6.5 with fish emulsion fertilizer yielded a higher percentage of oils and lipids per dry biomass. This suggests that the algae require a relatively high source of nitrogen while maintaining a slightly acidic to neutral pH level in order to produce the greatest percent oils and lipids per biomass.
Corrine Hendrickson
Roxana’s Challenge to Patriarchal Society
This paper will focus on Defoe’s novel *Roxana* and how the novel challenges the patriarchal system in eighteenth century England through Roxana’s refusal of marriage to the Dutch merchant, through her desire to own her own property and have complete control of her own finances, and through her ability to live in the public sphere without a husband. Critics have argued on both ends of the spectrum on whether Roxana goes from being a passive character to an active one in the way that she gains independence and another has argued that she never quite achieves the status of an active character and that it is in fact Amy that becomes active in the story. However, Roxana achieves the status of an active character right after her return to England. When she has refused the offer of marriage and decides to invest her money with the help of Sir Robert Clayton she becomes fully in control of her life. Roxana and her life in the public sphere would have been something out of the ordinary and new in society of that time and it is important to understand the consequences that might have had on the culture’s perceptions of women and of the laws concerning inequality within marriage in eighteenth century society.

Denisse Hernandez
The Double Sense of Irony: To Die to Live
The New Wave had considerable influence in France during and after the Algerian War. Directors like Agnès Varda decry the problems of French society during the post war decade in her films *Cléo de 5 à 7* (1959) and *Bonheur* (1965). The Algerian war was considered a dirty war because French political claims were, at best, questionable and its actions were most certainly deplorable. French directors and other artists assert that the Algerian War not only produced in physical death but in a symbolic one as well. The French film critic Kristin Ross talks about the effects of the war in her book *Fast Cars, Clean Bodies*. Ross explains that the need for cleanliness was attempt to wash away and forget the moral stain left by the war. The desire for cleanliness also fostered the emergence of a new consumer culture. Varda’s films give evidence and support to Ross’s argument. Through my study of Ross and Varda, I suggest that “cleanliness” while effacing bad memories in France also killed a certain sense of humanity.
Megan Huge

Media Propaganda and the Contra War

The United States government uses news and media propaganda to influence the way American citizens understand and support war action. This paper uses a clear cut example of the Contra War (1979) to explain the ways that news and media propaganda have been used to skew American perceptions of political situations. The propaganda mission employed by the Reagan administration used American fears of Communism and invasion by Nicaraguan refugees in order to gain support for the Contra effort. Past propaganda missions can be used as tools for understanding the War in Iraq and how current media and news propaganda are being used to influence us today. With the United States in oil crisis and gas prices skyrocketing due to ‘resource exhaustion’ in our own oil fields, the United States has interest in protecting resources of oil abroad. This research will contribute to a more complete and accurate understanding of the use of propaganda and news media to influence populations.

Angela Johnson

The Merits of Judicial Selection

My research documents the importance of using a merit-retention system to select trial and appeals court judges for U.S. counties and states. My presentation weighs the costs and benefits of popular election versus merit appointment using a wide variety of data demonstrating the importance of merit selection for maintaining the unbiased, impartial, fair, and independent judiciary envisioned by the framers of the U.S. Constitution. This research also exposes the surprising fact that merit-retention systems actually provide for greater accountability to the public, while opening the bench to qualified women and minorities who are often overlooked in election-based selection. This research is not only relevant to the public in that many people will at some point come in contact with trial court or appeals court proceedings and judges, but the issue of judicial selection is a current issue being debated in the Indiana legislature, who is proposing to replace a merit selection system with an election system for all county judges.

Gabrielle Marin Johnson, Jacquelyne Ann Krull, and Jeannette Uwase

Improved Purification Method for Heterologously Expressed Heme Dependent Chlorite Dismutase

Chlorite Dismutase is a heme-based enzyme that reduces the toxic compound chlorite into chloride while producing the molecular oxygen. This enzyme is known to negatively regulate perchlorate or chlorate respirations that are primary anthropogenic pollutants, and is therefore
of interest in the biomedical and biotechnological field. During this experiment, chlorite dismutase from the model *Dechloromonas aromatica* RCB strain was lysed followed by a two-column purification procedure, Carboxymethyl column (a negatively charged column) and Sepharose 200. Our proposed purification theme using CM column was faster and successfully purified chlorite dismutase. Based on our findings, this purification method is rapid and technical manipulations are needed to successfully carry out purification of the enzyme.

**Mercedes Johnson**

Adult Children and Depressed Parents

This research reviews previous literature of children of depressed parents to hypothesize about the emotional reactions adult children have to their depressed parents. Previous research is lacking on the emotional reactions of adult children to their depressed parents. Studies demonstrate that children of depressed parents are more likely to suffer from depression. Using Attachment Theory, this research makes the connection between children and adults in regards to coping mechanisms, relationship stability, and emotional health. Patterns of relationships and coping mechanisms established in early childhood carry on to adult life. Implications of this research would help therapists to identify and treat the negative coping mechanisms and inability to maintain healthy relationships established in childhood as well as gain understanding to adult reactions to parental depression.

**Jake Jones**

Haywood’s Double Standards

Eliza Haywood’s novels reflect gender double standards in fiction writing and in society during the time-period. One particularly useful source for this is an article that focuses on rape trials that directly pits women and men against each other on the witness stand creating a world of social standards and double standards to sift through in order to figure out the society within which it is taking place. I believe that because amatory fiction had a very clear audience and intended to shape that audience for a certain political or social purpose that knowing exactly what that purpose was and how it contrasts with the role of men is important to understanding the way in which society was shaped.

**Adam Edward Kintz**

The Masquerade of Pamela

This academic paper argues how Pamela’s previously unheard of level of social ascension correlates with the customs and practices of the popular costumed masquerade balls of eighteenth-century England. While many critics point to the importance of various masquerade scenes as an
influential narrative turning point a la *Roxana*, they fail to see how dress, costuming, and disguise occur not only behind the closed doors of a masquerade ball, but very often within the public sphere, acting as the key that at last frees the characters from being violently and continuously yoked between two competing worlds and class ideologies. In examining Pamela’s dress and costume in conjunction with the works of several esteemed literary critics, I hope to prove that Pamela’s clothing exist as merely the various disguises of a woman who finds herself suddenly straddling two very disparate worlds; a woman borne into a low station who is educated in the arts and customs of a higher social class only to later discover she belongs to (and perhaps in) neither of them, before finally resorting to using and usurping the conventions of social class and costume, both inherited and custom-made, as a guileful form of social ascension to the point where her entire life exists as but merely a “daylight masquerade”, with her supposed virtue as the domino-like mask that ultimately conceals her true motivations.

**Markus Krusche**

*Cyber Hooligans: Theorizing Football Hooliganism, Technological Choices, and Class Struggle*

The nature of innovating technological means to achieve a different goal other than the defined meaning is the subject of this research, examining the use of technology in the setting of *football hooliganism*. Popular Media and scholarly literature suggest that the increase of violence in and outside football stadiums is connected to the use of technology, especially the Internet and mobile phones. My research uses the Social Construction of Technology (SCOT) to explain how football hooliganism can be understood in terms of the technological choices of disaffected working class hooligans. The goal of my research is to understand how hooligans use technology for antisocial behavior. The results are not only relevant to football hooliganism, which mainly affects Europe, but for understanding global conflicts reinforced by the use of technology. My research concludes with a future outlook of how violent behavior or representation of violent behavior—for example, terrorist videos of hostage beheadings—will be enabled in society through the rise and change of technological means in creating newer forms of collective disorder.

**Emily Grace Kuehnemund**

*Developing a Nonresonant Acoustic Transducer for Superheated Fluid Detectors of Dark Matter Particles*

The mass of the Universe is primarily composed of an unknown substance called dark matter. Dark matter is inherently invisible and has not yet been observed in any laboratory. The COUPP and PICASSO
experiments are attempting to detect dark matter particles using superheated liquid targets. When a particle collides with a nucleus of the superheated liquid, it will initiate an explosive phase transition from a liquid to a gas. These phase transitions are caused by both dark matter particles as well as background radiation. One way of registering these events is to measure the sound waves produced. It was recently discovered by PICASO that background radiation creates different sounds than potential dark matter particles. My project will involve creating a backing for the acoustic sensors that will allow us to better differentiate between background events and potential dark matter events. This will be accomplished by constructing a backing that has the same acoustic impedance as the active element of the transducer. The backing must be dispersive to prevent the sound waves from reflecting back to the sensing element.

Chloe Lawrence
A Doomed Reign: The Duke’s True Shame in Robert Browning’s “My Last Duchess”

This paper uses historical facts to shed light on specific aspects of Robert Browning’s poem, “My Last Duchess.” With particular knowledge of Browning’s historic Renaissance muse, we gain the perspective to see beyond the narrator’s façade and see through to his wounded ego. This understanding allows the reader to glean deeper insight when discerning the speaking character’s underlying message: the seemingly defensive duke is ashamed of his own ineptitude and fears the demise of his kingdom.

Sara J. Lowe
‘Who Among Us Would Be Content’: John F. Kennedy’s June 11, 1963 Civil Rights Address

Although inwardly passionate for equality of black Americans, John F. Kennedy was outwardly cautious to push for civil rights legislation at the onset of his presidency in 1961. Initially, Kennedy’s position on civil rights was one of a cool “bystander,” but events and circumstances pulled the President into full engagement in the struggle for equality. From 1961 to 1963, Kennedy was forced to increase his efforts on behalf of blacks in their civil rights struggle, which efforts culminated in the decision to submit the most sweeping civil rights legislation since Reconstruction. Kennedy’s 1963 civil rights address was given to accomplish two goals: to prepare his constituents for the planned submission of civil rights legislation, and to address the need for which no legislation could bring about—the moral obligation of each American to secure the civil rights of all, regardless of race. In the wake of a successful confrontation with segregationist Alabama Governor, George Wallace, Kennedy addressed
the nation on the evening of June 11, 1963. Kennedy’s legislation, and his accompanying address, were outward symbols of his commitment to civil rights, in his attempt to gain the trust of civil rights leaders while risking the alienation of southern white voters. This paper explores the events surrounding the speech and the underlying reason for Kennedy’s willingness to submit civil rights legislation, thereby jeopardizing the remainder of his administration and the chances of re-election.

Kammye Madden
American Humor: The Social Boundaries
Understanding the different facets of humor within a society is an often overlooked and undervalued means to understanding the society itself—it’s strengths, weaknesses, tolerance, inadequacies, structure, evolution, etc. The purpose of this study is to investigate those implicit boundaries that shape and limit American humor—to answer the questions how, why, and to what extent Americans find humor a useful source of relief to the difficulties and inconsistencies that challenge them every day. Controversial attempts at humor that have made national headlines in the U.S. will be used to help map these boundaries found within humor and further understand why we find humor in certain contexts so offensive. This literature review uses what limited research on humor sociology are available to analyze several controversial attempts at humor that have made national headlines in recent years. The four functionalities of humor—meaning making, hierarchy building, cohesion building, and tension relief—will provide the structure by which these examples will be broken down. The study finds that of these four functionalities of humor, hierarchy building and tension relief affect what we understand to be controversial humor the most. Boundaries and double-standards are often set by means of these two functionalities and this is where controversy over humor arises—in terms of who can use it and in what context. The results of this study are useful in terms of helping to further understand American humor and, in so doing, helping to understand the complex nature of American sensitivity to controversial humor.

Laura Magliossi
When Girls Make Movies
In her article 1975 “Visual Pleasure and Narrative Cinema,” feminist film critic Laura Mulvey remarks: “Stars provide a focus or centre both to screen space and screen story where they act out a complex process of likeness and difference (the glamorous impersonates the ordinary).” Often, male filmmakers use the female character as an icon or the object of both the screen characters and the spectator’s attention. She is sole
the object of the masculine gaze. The male, on the other hand, is used as a figure with which the viewers can identify. The male is often the one controlling the women then possessing her, thus controlling the storyline; this possession and control of the women directly implicates male viewer: “Woman then stands in patriarchal culture as a signifier for the male other, bound by a symbolic order in which man can live out his fantasies and obsessions through linguistic command by imposing them on the silent image of woman still tied to her place as bearer, not maker, of meaning” (Mulvey 59). The female is typically supposed to be there just to be viewed, or gazed at, and is perceived as a static character with no actual involvement in moving the storyline forward according to male filmmakers. Female filmmakers have a very different take on the female character and her role in their films. The female protagonist, while still being beautiful, propels the story forward and makes the action happen. This difference between male and female directorial choices is evident in Roger Vadim’s 1956 film, *Et Dieu créa la femme* (1956), Agnès Varda’s 1962 film *Cléo de 5 a 7*, and Patrice Leconte’s 1989 film *Monsieur Hire*. My paper analyzes these films and the cultural work performed by the gaze.

**Eran Markiewicz**

Talking the Talk, Walking the Walk: A look into South Bend and the Creative Class

The creative class is a group of people who have are defined by what job they have. Most people think of performers, directors, and artists but people in business, education, health care, and law are also creative jobs. This class was created by Richard Florida, author of *The Rise of the Creative Class*, to explain why people live where they live. He concluded that people’s choices of where they live were based largely on what their interests were rather than what jobs they wanted. He created an index, the “Bohemian Index,” the looks for high density of creative people, the performers and artists. He overlaid this pattern on the pattern of the country’s high-tech cities and found that they are highly correlated (Florida, xxvii, 2002). Florida stated that jobs move to where people are rather than the opposite. With this theory he has helped cities find “creative” policies to make their cities desirable for both people and businesses. I am going to look into whether or not South Bend is trying to become a “Creative City” to help increase economic growth. I am going to analyze *the State of the City Addresses* from 2005 to 2010. I will be looking for words in the addresses that correlate with the creative class theory (arts, music, and diversity) in addition to social and human capital theories (education and trusts). I will then determine, by the analysis, if South Bend is trying to become a creative city.
Giuseppe Marturano
The Effects of Expressive Writing on Working Memory Capacity
The present study examined using expressive writing to increase available working memory (WM) capacity. One study found that WM capacity can be increased using expressive writing (Klein & Boals, 2001). Working memory is impacted by many factors including emotional expression, anxiety, and worry. This is due to increased demand on attentional resources that stressful events cause. It was hypothesized that writing about negative events would cause greater gains in WM capacity than writing about positive or trivial topics. Thirty-six introductory psychology students and acquaintances of the researcher completed two versions of the Letter-Number Sequencing Task adapted from the Wechsler Adult Intelligence Scale-III (WAIS-III). Participants also wrote for 30 minutes about a positive event, negative event, or control topic dependent upon which group they were assigned. The researcher analyzed change scores from pre- to post-writing on Letter-Number Sequencing Tasks to test between-group differences. One-way ANOVA showed no significant differences between groups, $F(2, 33) = .34, p = .72$. The results of this study suggest expressive writing has no significant effect on WM capacity. Writing about a negative event does not elicit greater increases in WM capacity than writing about a positive or control topic. Not congruent with the original writing paradigm where participants write about the same topic over multiple writing sessions was that in the present study participants took part in one writing session. Empirical support (Pennebaker, 1988) suggests having participants write over multiple sessions is necessary to see the full effects of the writing paradigm.

Giuseppe Marturano, Esther Hendrick, and Natalie Galbraith
Preliminary Effects of Expressive Writing and Exposure Writing on Measures of Trauma and Depression
The purpose of the present study was to evaluate an innovative form of exposure therapy for trauma survivors. As opposed to the original writing paradigm involving writing for 15-20 minutes, the current study examined a longer, exposure-based intervention to PTSD and depression. It was hypothesized that writing for longer time periods would elicit greater improvement in PTSD and depression than writing for less time. Forty-two introductory psychology students began this study and were randomly assigned to one of three writing groups: forty-minute trauma group, twenty-minute trauma group, and twenty-minute control group. Participants wrote across four writing sessions and completed the Beck
Depression Inventory (BDI-II), Impact of Events Scale-Revised (IES-R), and Posttraumatic Checklist - Civilian Version (PCL-C) before writing, after writing, and follow-up. Currently, fourteen participants have completed the study. A 3 (group) x 3 (time) repeated measures MANOVA was used to analyze differences between groups and time for all measures. Significant interaction of time and group was found, $F(2, 13) = 170.17, p < .001; \eta^2 = .99$. No significant main effect of group was found.

Researchers used ANOVA to analyze questionnaires finding main effect of time: $F(2, 13) = 7.85, p = .002, \eta^2 = .38$ (IES-R), $F(2, 13) = 8.43, p = .002, \eta^2 = .39$ (PCL-C), and $F(2, 13) = 3.97, p = .031, \eta^2 = .23$ (BDI-II). Preliminary analysis revealed that writing about any topic led to improvement over time. Collection of additional data is necessary for any solid conclusion because only fourteen participants completed all steps of the study.

Amanda McKee

The Hermits

Isabelle has been orphaned and, after a few brief stays with her other family members, finds herself living with her bizarre Aunt Mia and Uncle Luis. She soon begins to realize that there is more to the house, and her relatives, than she initially thinks.

Doug William Belanger, Aimee Kathleen Bishop, Kelli Ann Carlson, Laura Amelia Chanon, Paul Bradley Drake, Ashley Lynne Greenlee, Seth Omar Harewood, Katie Brianne Hazelton, James William Knapp, Hillary A. Mannia, Dean Marcus McCleese II, John Bryce Merrill, Abby Renee Miller, Stephanie Lynn Miner, Jennifer Ann Pace, Lauren Nicole Rieff, Gary Lee Simon Jr., Meagen Michelle Thompson, Vu Viet

Understanding River Crossing: Qualitative Research on the Experience of Living on Campus at IUSB

River Crossing is a student housing complex at Indiana University South Bend. In its second year of operation, Crossing has seen a significant drop in occupancy. The occupancy rate for the 2009-10 school year was expected to increase to around 90%, but instead decreased to approximately 70%. Located on the south end of campus, Crossing is an integral part of campus growth, and there is much to be learned about the place it currently holds in the University community. Qualitative research on Housing was designed to explore the experiences of current and former residents of Crossing. Students in S268 (Field Research) collaborated with the professor to develop the research design and IRB protocol and to collect and analyze much of the data. Multiple qualitative methods—including content analysis, ethnographic interviewing, and participant observation—were used to provide the campus community with a rich portrayal of student living on the IUSB campus. This research
contributes to a growing literature on the sociology of place and space empirical insights into the ways that public and private spaces are socially constructed, negotiated, and challenged. The project has an added “action research” component, in that a particular problem for an organization (Housing) is specifically explored in the research. Beyond scholarly contributions, this work contributes to the campus’s mission of sustaining a residential student life.

Cody Miller
Defoe’s Roxana and the Eighteenth-Century Marriage
For Daniel Defoe’s Roxana, scholars argue that Defoe created Roxana as a way to strengthen the patriarchal marriage system of the 18th Century by having a main, woman character challenge the system and then end up in ruin. The need to strengthen the patriarchal marriage of the 18th Century arose from the rising freedom and empowerment of women during that time in England. Missing from the current scholarship is an analysis of Roxana based on the power and control that a woman can gain by being outside of the patriarchal marriage system. By using this, one can come to the conclusion that Roxana is written to show a female character gaining too much power and building a matriarchal system; therefore, Defoe returns his character to her proper place within the marriage system ruled by men in 18th Century England. Understanding the power struggle within Roxana allows readers to see the past and present power structure within the marriage system.

Cody Miller
Engrossing (1) and Our Child (2)
(1) A college student experiences a panic attack after a person sitting next to him squeezes.
(2) A child and a parent deal with the loss of a family member who has chosen to leave them behind.

Leroy Ndlovu
The Forgotten Age
Poems from a chapbook about growing up.

Samuel Njoroge
IU Test – Web-based Testing System
Currently, at IUSB, most of the instructors use paper based tests and quizzes. IU Test is a web based testing tool that allows students to take paperless tests online. The uses would range from classroom tests, placement tests, surveys with detailed statistics in all the cases. It allows instructors to create question banks for each course or specialized topics and use those question banks while creating tests. IU Test can be used as
a tool for collecting and analyzing pre/post test data for courses such as computer literacy (used in general education), as well as capstone courses (used for program assessment). Test results collected by the IU Test system can be used as a direct measurement of student learning in key courses, and its results can be reported to the departmental and campus assessment committees. Furthermore, the results can be incorporated in reports made to disciplinary accreditation bodies such as ABET (Computer Science). Since the data in IU Test is stored in a database, longitudinal study and analysis becomes very simple. Changes made to the program can be easily assessed and the results can be compared with prior results to see if recent changes to a course or the program have had a positive outcome. In this presentation we discuss the architecture of IU Test and various open source technologies used; PHP (scripting language for web programming), MySQL (database management system), JavaScript (a browser scripting language), CSS and HTML (content display), and SHA2 and AES (preserving data security).

Melissa Papp
Gender Division of Household Labor
This study reviews previous literature on the gender imbalance in household labor division and how this imbalance is still a major source of strain in contemporary American marriages. Women are investing over two times the amount of hourly labor in the home per week to men’s. While the gap has narrowed over previous years there is still a discrepancy in the amount of time spent on household labor. Men appear to be contributing fewer hours to household labor than in previous years. Women appear to be taking on more work outside of the home and maintaining the same amount of hours spent on labor in the home. Several factors impact household division of labor including: gender role perceptions, over all perceptions of equality in the home, education, and primary socialization of household labor. This study investigates these mitigating factors, what they mean in terms of gender inequality and how these factors could lead to marital strain. Implications for this research include a better understanding of how gender roles affect household labor to potentially increase gender equality and better marital relations.

Katherine Parker
The South Bend Farmers’ Market as a 'Third Place'
Virtually no research examines the production of social capital at farmers’ markets and how they may or may not operate as a third place, as defined by Ray Oldenburg. Using Oldenburg’s eight components of third places, I analyze qualitative data gathered from the South Bend Farmers’ Market to examine how it operates as a third place. These components
include neutrality, a meeting ground for people with diverse demographics, conversation, accessibility, regulars (as in customers), a modest physical appearance, playful mood, and a homelike feeling. For the sake of time, this presentation will focus on three components: diversity, conversation, and regulars. This data was collected by students in a qualitative research class over the course of the Fall 2007 semester. The data includes observations and transcribed interviews with both vendors and customers. This data indicates that the South Bend Farmers’ Market attracts customers with diverse demographics, who frequently engage in conversations with both vendors and other customers, and many of these customers are considered to be regulars at the market.

Benjamin P. Parsons
All Politics Is Not Local

The late Tip O’Neil, former Speaker of the House, once said, “All politics is local.” Mr. O’Neil’s famous quote hints that politics is mostly perception. If voters perceive that things are going badly—especially as it relates to their personal circumstances—then they will reflect those sentiments in their voting patterns. Mr. O’Neil’s statement also seems to suggest voters will express their perceptions of local circumstances in federal elections, even if national politicians have little or no jurisdiction over local issues. However, do local politics really affect national trends, or is the truth just the opposite? My research topic deals with national politics and whether it is affecting state and local election results. For several decades, political scientists have been attempting to determine whether there is a nationalized electorate in the United States. That is, do the voters support or oppose a political party at the federal, state, and local levels based mostly on their perceptions of the President and/or the Federal Government? For my research, I will ask the question, “Are state and local elections becoming more nationalized, and what does that entail?” I will attempt to identify nationalized trends in state, local, and congressional elections, and whether such contests have their own determinative characteristics, separate from national circumstances.

Brian Payne
Reducing Recidivism in the United States: Incarceration versus Rehabilitation

For more than a score of years the United States Criminal Justice System has embraced a ‘Get Tough’ policy on crime, focusing more on incarceration than rehabilitation. This approach has not caused any appreciable change in crime reduction and government budgets are still being strained by crime increase. Reports show the U.S. Government spent in the last fifteen (15) years some $9 billion to $60 billion per year on corrections yet still three of four released criminals are re-arrested within three years. Indiana alone spends $19000.00 per year per inmate
Indiana is below the national average in recidivism boasting a 37.4% rate in 2008 and has experienced a meager decrease since 2005 from 39.2%. The National recidivism rate ranges from 62.5% - 67.5% (BJS). Recidivism is a high priority for the Criminal Justice System around the country. Prisons and jails are overcrowded forcing state governments to consider early releases for prisoners. That’s a scary thought since there are hardly any effective programs to prepare those prospective inmates for re-entry into mainstream society. Several rehabilitation approaches have proven to reduce recidivism, among which are: Risk-Need-Responsivity (RNR) and Sober College. The RNR model focuses on moderate and high risk cases, criminogenic needs and cognitive social learning. The Sober College is designed to rehabilitate criminal youth through academics, life skills, productivity, emotional intelligence and fitness. In this literature review I propose to examine the success of rehabilitation versus the success of incarceration in reducing recidivism in the United States.

Terrie Phillips
For the Love of Rosalie’s Toe
A toe hungry bird changes relationships in a small town.

Maureen Pickar
Intersection of Identities: Women in Christian Subcultures
The research I am proposing intersects the fields of sociology of social subcultures and faith studies. This research focuses on how women use their agency to create spaces of resistance. Women are constantly negotiating the identities they create and claim. Two places where women are marginalized, but find paths of resistance, are in claiming both identities of various subcultures and in Christianity. While there has been research in both the fields of subculture studies and women in religion, there is little existing work on how these two identities intersect. The research I envision is a project that combines academic research, field research, and participant interviews. This project will require entering places to observe, and recruiting participants for both one on one interviews and focus groups. I also intend on attending a Christian music festival which has a large and diverse subculture community. The academic research will help me frame my findings, as well as progress my own theory. This particular group of women has never been researched thoroughly in an academic field means they have been marginalized and ignored by academia.
Miguel A. Quijada
How Current Immigration Policies Affect Immigrants
Based upon a review of current literature, this paper will discuss how current immigration policies affect immigrants. This research project is going to focus in four areas in which immigrants are affected the most: economically, family, prejudice of immigrants, and in health care programs. This will be analyzed in the context of how current immigration policies not only affect undocumented immigrants but also citizens and legal residences. The reason of this reach is to explain how current immigration policies affect immigrants. This research will cover and discuss areas in immigration policies which previous research has not discussed in details of how immigrants are affected by the current policies. The previous research in contrast discuss and focus in the immigration periods of the history of the United States and how certain people are benefit of these polices.

Gabriela Resendiz
Causes of Teen Pregnancy
An outgrowing problem has been occurring over the years in the United States, an increasing number of teen pregnancies during the ages of 15 and 19. There are several causes for this problem including peer pressure, lack of safe sex education, poverty, single parent home, lack of self esteem and having a close relative who was a teen parent. Teenagers are not physically, emotionally or financially prepared to give birth and often locked into a vicious cycle of poverty. The annual cost of teen pregnancies are high, due to the lack of education and job skills the teen possess when becoming a parent. There are health risks for the baby such as being premature, low birth weight and becoming a teen parent itself. Women who become pregnant during their teens have an increased risk for complications, such as premature labor and death. Knowing the causes of teen pregnancy will help reduce the number of teens from becoming a teen parent.

Dawn Ryman
The Need for Gender-Specific Substance Abuse Treatment
In the past substance abuse treatment has taken a one gender fits all approach. Courses of treatment that were offered to women were modeled on treatments that were successful for men. This study will highlight some of the differences faced by substance abusing women, as opposed to men. Understanding these differences will allow for the facilitation of more responsive treatment for the female addict. The information was gathered through an extensive literature review.
Research has revealed that differences not only exist biologically, but socially and psychologically as well. These differences manifest themselves not only in the ways that women become addicted but also in the social aftermath of the addiction process.

Roy Saenz
Latino Barriers and Challenges to Higher Education
In higher education Latinos are underrepresented. Currently, whites with an educational attainment of a bachelors degree or higher is 34% versus Latinos at 11%. This study looks at the barriers and challenges Latino students have in graduating from colleges and universities. In particular, it will explore how family, peer mentoring, advising and identity affect Latino students. After examining the trends I will suggest a model for improving the recruitment, retention, and graduation rates for Latino students. I will show why education is important as it relates to immigration and social security, and why it becomes important to educate the next boom demographic to support the existing social support programs.

Kyle Schrader
Waiting for a Pardon
A hard working young man is sentenced to life in prison in the late 1960's after protecting his sister from troublemakers.

Hannah Stowe
Science and Sentiment: George Eliot’s Epistemology in Middlemarch
This paper considers the theories of various literary analysts who focus on the relationship between science and knowledge in George Eliot’s 1872 novel, Middlemarch, including Michael York Mason, Richard Menke and Mark Wormald. This paper acknowledges with these scholars that the novel emphasizes scientific thought as requisite in coming to know things, but it also argues that, in the text, such scientific thought goes hand in hand with emotional involvement with the object of study. Menke argues in “Fiction as Vivisection: G.H. Lewes and George Eliot” that Eliot’s aim in the novel is to “vivisect” the human mind to achieve an understanding of it in the same way that scientists at her time were able to learn about the physical body through their vivisections of animals. Wormald argues in “Microscopy and Semiotic in Middlemarch” that Eliot wrote the novel to use as a vessel for transporting scientific thought. Mason likewise focuses on the scientific content of the novel in his “Middlemarch and Science: Problems of Life and Mind.” This paper argues that the importance of not only a critical, scientific examination of an object but also a love for that object in coming to understand it is represented in the text through the characters of the narrator, Casaubon.
and Lydgate, focusing on the language surrounding these characters. This paper also engages with the aforementioned scholars’ interpretations, revealing Eliot’s emphasis on the importance to knowledge of sentiment in addition to science in the very evidence they use to support their arguments.

**Katie Swiental**

**Women in the Visual Arts: Homage to Kay Sage**

My project is from the Women in the Visual Arts class I attended in the fall semester of 2009 taught by professor Dr. Andrea Rusnock. The class completed a research paper and a three-dimensional box project reminiscent of the non-profit organization, Women Beyond Borders, empowering women around the world through the universal and emotional expression of art. I concentrated my box and research paper around the artist Kay Sage. In my panel, would be discussing her life, work, and influence among women artists, the art world and surrealism in the 21st century upon request.

**Chloe VanDenBrink**

**Healthcare in Haiti**

This paper will discuss the poor healthcare system that currently exists in Haiti, and its consequences in other aspects of Haitian life. It can be shown throughout Haiti’s history that various imperialistic powers, dictators, exploiters of the land, and natural disasters have all led to a healthcare system that does not care for its population, leaving many people with diseases (often curable and preventable i.e. TB/AIDS) and malnutrition. This paper will show that, because of this poor healthcare system, many consequences have arisen. Poor healthcare affects the education system, the economy, as well as foreign relations. Drawing from personal experience, along with literature reviews on Haiti’s current issues, I will show that if a change in Haiti’s healthcare system can be made, it will help create change in the other aspects of the country, allowing for improvements in the lives of the Haitian people (and potentially other third world countries).

**Melissa Van Dierendonck**

**Women in the Visual Arts: Homage to Rachel Ruysch**

In the Fall of 2009, I was enrolled in Dr. Rusnock’s “Women in the Visual Arts” class. It was required of us to do a research paper on a famous female artist in history. We were also required to construct a three dimensional box demonstrating the essence of the artist. I chose to research Rachel Ruysch. The most well known and sought after Dutch female artist, Rachel Ruysch was the first woman to obtain an international reputation in the art
world. Living most of her life in the same area, Ruysch’s works adhere to the Dutch Baroque artistic period but with her own artistic flare thrown in. Being of a well-established name in the scientific community, her works were not only pleasing to the eye but also were important tools for the study of botany and anatomy at that time. One of her most reviewed and talked about paintings is her *Still Life of Fruit with Stag beetle and Chaffinch Nest*. This was the painting I based my box off of. Ruysch was living proof that woman can have both a meaningful, successful career and a family.

**Brittany Verhamme**  
*Women in the Visual Arts: Homage to Diane Arbus*  
I had the opportunity to take Women in the Visual Arts course with Dr. Rusnock in the fall of 2009. In her class we discussed different women artists and issues involving their art and talent. Along with learning about these artists, our class created boxes dedicated to one woman artist of our choice; the boxes could be constructed anyway to truly represent our artist and/or her art. My box was dedicated to Diane Arbus, a photographer. Her photographs had a shock value that most people did not understand. She photographed “freaks;” people who were seen as unusual in society. Her subjects often revolved around nudists, cross dressers, transvestites, or anyone who did not fit “the norm.” My box includes pictures of some of these people and representations of events that were significant in Arbus’ life.

**Joe Walter**  
*Social Networking*  
The purpose of this paper is to examine the different ways in which people use Facebook and the reasons behind why they use it. I will be looking at how social networks such as Facebook have altered our ways of communication, touching briefly on some of the negative aspects and feelings towards social networks, and where they are heading in the future. I collected my data through researching and finding results from other scholars in this field. The key themes to which these articles focused around were how people use social networks and why they do so. Some of these main reasons that are addressed include; meeting new people, dating, keeping in touch with friends, re-connecting with old friends, and keeping in contact with family members. This research will aid a wide range and variety of people and groups but I think that it will affect most strongly the online communities and people that are involved directly with these types of social networks and people who make them a big part of their life. Social networking has become a world wide phenomenon and is something that everyone will become effected by directly or indirectly.
Gregory Warrell  
Application of a Bragg Peak Flattening Filter for Dose Delivery Utilizing Energy Stacking

Proton beam radiotherapy is particularly attractive for cancer therapy because of the very sharp Bragg peak exhibited in dose vs. depth distribution. However, many pristine Bragg peaks are needed to cover the entire physical extent of the target volume, increasing the complexity of the treatment and its sensitivity to target motion. It is therefore desirable to have a flattening filter capable of spreading out the Bragg peak, necessitating fewer beam energies to achieve the desired spread-out Bragg peak (SOBP). A prototype flattening filter, of the aluminum grid design, has been designed, manufactured, and tested at the Indiana University Cyclotron Facility (IUCF). It has been found feasible to use a single-sheet aluminum flattening filter to spread out the proton Bragg peak at biologically relevant energies, so that the entire volume of the tumor may be treated with fewer beam energies. However, further work is needed to generate a flattened Bragg peak that can be used to generate an SOBP of sufficiently uniform dose for clinical purposes, and to determine whether an optimized flattening filter could be used at multiple beam energies to achieve a uniform dose.

Celeste Warrell  
Overproduction of Arsenite Oxidase in *E. coli*

Arsenic in the environment has long been a threat to public health. Millions of people in third-world countries suffer the effects of arsenic poisoning due to natural arsenic deposits in sediments being released into groundwater and ending up in drinking water. High-tech instrumentation required for full-scale purification of water is not yet available to these resource-poor areas. The bacterium *Alcaligenes faecalis* naturally produces the enzyme arsenite oxidase, which catalyzes the conversion of arsenite to arsenate, enabling this bacterium to thrive in toxic concentrations of arsenic. Arsenite oxidase’s powerful ability of detoxifying arsenic is a potential purification technique that would be especially helpful to these afflicted countries. However, the *Alcaligenes* bacterium will only produce this enzyme in arsenite-based cultures. This is problematic in a laboratory because arsenite-based media requires specific disposal due to its toxic nature. However, if the genes that encode for arsenite oxidase are introduced into *E. coli*, the synthesis of this protein can be induced by supplementing the media with the inducer molecule isopropylthiogalactoside (IPTG) instead of a toxic compound. Previous work had shown that under certain conditions, *E. coli* could produce arsenite oxidase, but not very much of it. The goal of this project was to determine the experimental conditions that are needed for *E. coli* to produce the maximum amount of active arsenite oxidase.
Ian Wells
The Mark of a Dancing Girl

Tattoos tend to hold a specific meaning, regardless of how minor the meaning could be. Because tattoos tend to expand and retract as the skin expands and retracts, I hope to prove the plausibility of a tattoo being utilized to track gestation time. The specific tattoo that is being examined is a mark that was placed on women that lived within the Egyptian culture. I decided to examine this tattoo because the little evidence surrounding it leads most researchers to think that this tattoo could be a mark of a prostitute or a dancing girl. Through examination of weight gain during pregnancy, mass gained per pound and through examination of tattoo explanation due to gain in mass. The evidence suggests that it is plausible that this tattoo could be related to pregnancy.

Diana Wenger
The Diabolical Mrs. Jewkes: The Fictional Characterization of the Jewish Persona in Eighteenth-Century Literature

For the conference paper, I am going to look at the characterization of the Jewish persona within the 18th century novel. There will be a discussion on the historical situation of the Jews in the 18th century, focusing on the treatment of the everyday Jew in real life and comparing it to the fictional characterization. Everyday references will delve into usury law, the Jewish Naturalization Bill of 1753, and contemporary newspapers, such as The Tatler. The fictional characterization of the Jew will be defined and analyzed with reasoning as to why this was a popular theme throughout literature. The work focused on will be Pamela, in which the character, Mrs. Jewkes will be compared to this stereotype, even though she is never said to be a Jew. Mrs. Jewkes will be cross-analyzed with the novel Roxana, in which one of the characters is Jewish. The Jewish character in this novel be used as my set standard for the fictional characterization of the Jew, along with other works and plays from the 18th century. As such I will prove with these sources that Mrs. Jewkes from the perspective of the 18th century reader, would have been seen as a Jewish character.

Christopher Jack Williams
Me, Myself, and Something Cliche: A Look at Self Through the Eyes of Goggles.

Selections from a chapbook about growing up and the reinvention of self. Poetry takes place in Mishawaka/South Bend area.
Caitlin Grace Worm
Non-Jewish Migration and Societal Security Policy in Israel

The Israeli Ministry for Foreign Affairs reports that approximately 250,000 foreign workers live in Israel, with 150,000 considered to be “illegal.” Israel, the world’s only Jewish state, works to safeguard opportunity and liberty for all its Jewish citizens and attracts thousands of new Jewish immigrants each year. However, such values of opportunity and liberty have attracted not only Jewish immigrants, but non-Jewish migrants as well. Because of this, the young nation has been in a constant state of societal transformation since its inception. A common concern of all major nation-states during and after the Cold War explains how the security of a nation-state is not only marked by its military power, but by the security in the makeup of its society’s cultural institutions, such as religion or language. I will review the history of immigration to Israel since the creation of the state in 1948 and will highlight specific migrant groups who have immigrated – both Jewish and non-Jewish. This analysis and my examples of non-Jewish migration will show the complexity of immigration into Israel for both Jews and non-Jews, especially when the theoretical concepts of the Iron Law of Immigration and “societal security” come into play. My presentation will address the effect of non-Jewish workers on the Jewish makeup of the state and examine how it threatens Israel’s vision for societal security. I will use a combination of historical background information, statistical data, and examples of Israeli policies to frame my analysis.