

Adrian College

Welcome to our annual Ribbons of Excellence Day Program.

I am pleased to welcome you to our fourth annual Ribbons of Excellence Day Program at Adrian College, a day dedicated to celebrating scholarly accomplishments of our students through presentations, exhibitions and performances. A tradition started in 2008 and developed out of a faculty initiative to create and support our academic culture, today is the culmination of at least one year of preparation by students and their mentors.

The Ribbons of Excellence form the foundation of our shared values at Adrian College and each presentation today is linked to at least one thematic ribbon. I would like to thank Professor Heather Schuyler and the team of faculty and staff who worked in support of this event. We are thrilled that you are joining us today to celebrate our students and their accomplishments.

Regards,

Agnes I. Caldwell, Ph.D.
Vice President and Dean of
Academic Affairs



Adrian College's Mission Statement

Adrian College, a liberal arts college in the United Methodist tradition is committed to the pursuit of truth and dignity of all people. Through active and creative learning in a supportive community, students are challenged to achieve excellence in their academic, personal, and professional lives, and to contribute to a more socially just society.

Welcome to the 2012 Ribbons of Excellence Day Program!

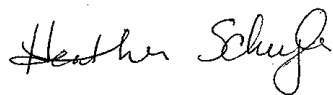
The history of the Ribbons of Excellence Program resides in the Cane Ceremony tradition of tying a ribbon with the names of graduates to the Shepherd's Crook. This tradition has been carried on since 1887; in 2007 the academic community at Adrian College developed its academic vision of the Ribbons of Excellence Program. The Ribbons of Excellence are what each and every member of our community strives for; the Ribbons of Excellence are what we want Adrian College to be known for: *caring for humanity and the world; learning throughout a lifetime; thinking critically; crossing boundaries and disciplines; and developing creativity.*

Through today's Program we strive to achieve this goal of making this vision a reality. Students embark in research and other projects to *think critically* and *creatively* and to tie these ribbons into their lives, not just to the Shepherd's Crook. We also strive to achieve *learning throughout a lifetime* and *caring for humanity* by inviting community members, faculty, staff, students and other visitors to attend the day's events. The day is also about *crossing boundaries and disciplines*, as we are trying to expose students, through their presentations, to other buildings and communities on campus. Please take the time to look around. The work you will see is outstanding!

On behalf of the Ribbons of Excellence Program Committee, I would like to thank all students, faculty, and staff for their participation, support, and assistance with the 2012 Ribbons of Excellence Day Program.

Once again, welcome to the Adrian College Ribbons of Excellence Day Program. We hope you enjoy today's programs and return next year.

Regards,



Heather Schuyler, MA
Director, Ribbons of Excellence Program
Department of ESPE and Athletic Training



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RIBBONS OF EXCELLENCE CONFERENCE 2012

Plan Your Day

Tuesday, April 03, 2012

Adrian College Campus

Time	Agenda Topic	Presenter	Location
2:00	<i>Sample Topic</i>	<i>John Smith</i>	<i>Athletic Training Lab</i>

Session 1

Rush 124

9:00-9:20

Brantz Brandenburg, JohnMichael Deters
*Development of Analytical Methods for Home Brewers***Mentor: David Bartley****Ribbon: Crossing Boundaries and Disciplines**

The Official Methods of Analysis of AOAC International were used to determine the alpha and beta humulinic acid content found in dried hops and the international bitterness units (IBUs) of bottled beer using ultraviolet/visible (UV/Vis) spectrometry. These units are used to grade types of beer and provide descriptions of the bitterness flavor of beer. The goal of these experiments was to develop methods for the analysis of these values that a home brewer would be able to use without having to have access to an UV/Vis spectrometer, an extremely expensive instrument. After the percent alpha and beta humulinic acid content and IBUs were determined, experiments were conducted to attempt to find a correlation between the measured UV/Vis spectrometer values and a simpler testing method that would be amenable for use by home brewers.

9:25-9:45

Logan Plath*A Quantitative Analysis of Wine by Nuclear Magnetic Resonance Spectroscopy***Mentor: Paul Rupert****Ribbon: Thinking Critically**

Wine is a complex beverage, composed of a variety of different chemical species. Like all other alcoholic beverages, wine is highly controlled and regulated by the Tax and Trade Bureau. In order for wine to be sold, some of the chemical species in wine must be accurately measured to meet predetermined guidelines. There are currently many different techniques for quantifying some of the major species in wine. Some of the most common methods of analysis include: spectroscopic analyses, chromatographic separations, or gravimetric methods. The research presented uses a type of spectroscopy known as nuclear magnetic resonance to accurately quantify multiple chemical species in wine samples. Nuclear magnetic resonance spectroscopy has benefits of making analyses in a short amount of time with little sample preparation and a small sampling volume. Nuclear magnetic resonance analysis of wine will provide advances in analytical methodology for the wine industry.

Session 2

Hickman Board Room

9:00-9:20 Zachary Wilson, Bridget Dill, Samantha Fortuna, Alex Noelke
Pulling the Oxcart
Round Table Discussion

Mentor: Linda Learman**Ribbon: Developing Creativity**

This interdisciplinary panel, consisting of two English editors and two Art editors, will explain the process of creating the literary arts magazine: The Oxcart. These checkpoints on the road to producing a literary magazine include determining the submission deadlines and requirements for art and writing works, filtering through and selecting the best of the submitted pieces, editing those pieces, and then choosing the final format of the magazine. In addition, we discuss a variety of issues involved in the decision-making process, from budgetary constraints, to authorial and editorial control and input, to how two sides of the editorial process (visual and textual) negotiate boundaries and interplay between the two. Each of the English editors will present on a different piece of the process: Speaker 1 will describe the process from the perspective of running a magazine and staff, highlighting the successes and barriers that got in the way. Speaker 2 will discuss the process from the standpoint of being on the editorial staff, such as the difficulties and challenges that came with making decisions. Meanwhile, both Art editors will include the ups and downs of being a part of the Oxcart Art editorial class.

9:25-9:45 Cambray Sampson
Performing Controversy: The Federal Theatre Project Living Newspapers

Mentor: Deborah Field**Ribbon: Crossing Boundaries and Disciplines**

The Federal Theatre Project was the closest thing that the United States has had to a national theatre; however it was short-lived lasting only four years. One of the most distinctive accomplishments of the Federal Theatre Project was a type of drama known as the Living Newspaper. Audience reaction to the Living Newspapers was generally favorable. Yet these living newspaper productions had few political supporters because of the controversial content of these shows. I analyzed reviews of shows and the scripts the Living Newspapers, and government documents. I argue that the controversial nature of the shows was the reason for the close of the entire Federal Theatre Project.

Session 3

Knight Auditorium

9:00-9:20

Tim Turner
*The Flip Side of the COIN***Mentor: Michael McGrath****Ribbon: Caring for Humanity and the World**

Counterinsurgency operations are perhaps the most difficult and misunderstood form of military action the United States has ever engaged in. The U.S. Army/Marine Corps Counterinsurgency Field Manual (FM 3-24) was written to remedy this problem, providing guidelines for officer and enlisted alike. This project aims to find out how effectively counterinsurgency is executed and understood “on the ground” through interviews with military personnel of various billets and experience. By understanding how well the lessons espoused in FM 3-24 have taken hold within the military rank structure, we can begin to honestly confront the difficulties in waging successful counterinsurgency campaigns.

9:25-9:45

Madalyn Holyfield
*Federal Policy and its Impact (Or Lack Thereof) on Individuals with Developmental Disabilities in the United States***Mentor: James Hanley****Ribbon: Caring for Humanity and the World**

In the United States there is a sordid past between policy and those with disabilities living in the country. Oppression in the form of inhumane institutionalization and sterilization was the norm to keep individuals with disabilities hidden from society. The disabilities rights movement gained full speed in the 1960's inspired by other civil rights movements and since then the federal government has responded with a string of policies. The federal policies fail to meet the needs of people with developmental disabilities that they claim to. There is still a major lacking in employment, education, health care and socialization for people with developmental disabilities. Furthermore since 1995 there hasn't been a national survey assessing the quality of life for individuals with disabilities in the United States which leaves a gaping lack of information necessary in assessing the efficacy of the policies.

Session 4

Valade 202

9:00-9:20

Emilia Ertz*Technology in Education: The SMART Way to Teach***Mentor: Al Craven****Ribbon: Learning Throughout a Lifetime**

As we progress into the 21st century, technology is becoming even more apparent in many aspects of our lives. We use different types of technology daily for socializing, paying bills, and shopping. So, why are teachers not making more of an effort to engage students learning through the use of new technologies? Much like the rest of society, K-12 students are constantly using cell phones, video games, or the internet. Instead of punishing students for having these skills, we need to develop more effective ways of involving technology tools in the classroom environment to deepen student engagement and attention. I will demonstrate the use of various forms of technology in the classroom, including SMART technology, Clickers, and various web tools.

9:25-9:45

Brittanie Kuhr*Utilizing Technology for Student Motivation***Mentor: Michelle Hiscock****Ribbon: Developing Creativity**

The purpose of this presentation is to show the creative use of technology throughout lesson plans. This presentation shows one lesson plan in particular that utilizes three different technological resources while continuing to meet state standards and benchmarks, along with activating student's prior schema. By using various forms of technology, students will be more motivated and have the opportunity to be fully engaged in class via multiple mediums.

Session 5

Goldsmith 109

9:00-9:20 **Thomas Zimnicki, Sarah Sokolowski, Jordenne Ferenczi, Kelly Friend**

All in a Bayes' Work: Hierarchical Bayesian Analysis of Functional Traits in Forest Tree Communities

Mentor: Jeffrey Lake

Ribbon: Thinking Critically

Understanding how plant species coexist remains a fundamental challenge in ecology. Plant functional traits have recently been used in a number of these analyses, and seem to be related to at least some demographic rates, such as growth and death. But the nature and strength of these relationships is not well documented.

Hierarchical Bayesian analysis provides a unique and powerful tool to relate demography to functional traits. The approach provides more flexibility in terms of accommodating rare species and missing data, two common issues in ecological datasets, and can better account for variance than traditional models. This method is being applied to at least two forest datasets, one from Michigan, the other from Georgia, for which there is a variety of functional trait data as well as growth and mortality data. The study is relating these traits to growth as well as attempting to explain variability in one of the traits within and among species. This is the first time Hierarchical Bayes has been applied to these types of analyses of trait and demographic data. The results to date will be discussed as well as pros and cons of the Bayesian approach to ecological problems.

9:25-9:45

Kelly Friend, Jordenne Ferenczi

Comparison of Functional Traits in Early vs. Late Successional Tree Communities in Belize

Mentor: Jeffrey Lake

Ribbon: Thinking Critically

Distributions of functional traits can tell more about the ecology of species in a community—the interactions among the species, and with their abiotic environment. Two expectations arise from this. The first expectation is to find more sun demanding species of trees in a younger forest, while an older forest ought to have a wider diversity of functional groups and thus traits. The second expectation is older forests will show more evenness in spacing of traits than among species in a young forest where competition has not yet had time to sort species well.

Using specimens collected in two Belize forests, Ix Chel (young forest) and Terra Nova (late successional), species level traits were calculated for specific leaf area, leaf nitrogen content, and leaf laminar area. Then statistical analyses were used to determine the trait distributions for community aggregate means, spacing, evenness, and overlap. A comparison of the community structure weighted for abundance and biomass was run, from 1994 and 2006 censuses. This was used to see if the sites are changing temporally, and if so, if the changes are similar between the two sites

Session 6

Jones 204

9:00-9:20

Peter Konieczki*Examining the Success of Michigan Educational Standards in Lenawee County***Mentor: James Hanley****Ribbon: Caring for Humanity and the World**

Since the birth of the educational standards movement in the 1970s, there has been a continued call for an alignment of curriculum with assessment. As accountability within education has grown since the implementation of the No Child Left Behind Act of 2001, legislators within Michigan have increasingly sought to match standards to assessment in the interest of promoting higher level learning. The passage of the Michigan High School Content Expectations in 2006 reflected this desire for improved education statewide. This study seeks to analyze the success of the Civics High School Content Expectations within Lenawee County. Statistical analysis will be used to determine if these standards have indeed been aligned to Michigan standardized assessments. The success of Lenawee County teachers in meeting all of the goals espoused by these standards will be examined in the context of classroom instruction, and through the analysis of state standardized test scores.

9:25-9:45

Anne Hersman*Does Homework Serve a Useful Purpose?***Mentor: Al Craven****Ribbon: Caring for Humanity and the World**

There are many controversial issues in teaching in today's society. One of them is homework and whether or not teachers should give assignments to be completed at home. Imagine a world without homework! That sounds like a student's dream, but could it really provide the best education for our students today? Come explore the Thinking Critically Ribbon of Excellence as we analyze both sides of this argument. After taking a comprehensive look at the benefits and problems with assigning homework, appropriate grade level expectations and guidelines, time spent completing work out of class, and parent involvement in homework, the audience will be able to make an informed decision about if homework serves useful purposes.

Session 7

Rush 124

10:00 – 10:20

Sondra Bryan, Derek Shell*Scheduling with Linear Programming***Mentor: Alia Khurram****Ribbon: Thinking Critically**

We will look at the problem of building the schedule for the Mathematics Department. We will model this problem using linear programming (LP) problem.

Linear programming problem, also known as linear optimization, is the problem of maximizing or minimizing a linear function subject to a number of linear constraints. To solve real life LP programming with large number of variables, Simplex algorithm is used. We will employ the simplex algorithm on our problem using a computer program Maple or MATLAB. Once this problem is solved the model can be generalized to scheduling problem of other departments.

10:25 – 10:45

Ariel Gordon*Building with Bee Technology***Mentor: Alia Khurram****Ribbon: Developing Creativity**

In my research I will use the model of a honeycomb to study whether it would be beneficial for humans to build their living spaces with the same design. The bees use the hexagonal shape for their nests because it provides them with the maximum amount of usable space while using the least amount of materials. In my research, I will compare the hexagonal shape to other geometric shapes to prove that indeed the hexagon will have the most room inside the walls and require the smallest amount of materials to build such walls. By using this information, I can then compare the findings to observe whether or not it would be economically viable for humans to build apartments or houses with a similar design.

10:50 – 11:10

Timothy Peoples
After God's Heart Not God's Booty

Mentor: Melissa Stewart**Ribbon: Thinking Critically**

I will argue that African American churches reinforce a stereotype by promoting only one type of black man: the strong, muscular one. A black man suffers from what I call “the muscles and mustache syndrome.” Physical strength defines him and gives him authority. This simplistic notion of power from slavery has followed the black man into today’s society. Patricia Collins states that the working-class black man’s identity is still one of physical strength and has reemerged as what she analyzes as the “booty” identity, whereby lower-class black men have power in as much as they can control their own body and their women. Regrettably, the church perpetuates this identity of lower-class black men. Yet, I contend that the Judeo-Christian God chooses effeminate, weak, and beautiful men. For example, God chooses weak Jacob over strong Esau. This “underdog” theme reoccurs throughout the Hebrew Bible. I suggest that the Black church must acknowledge and teach all sides of men vis-à-vis effeminate, educated, homosexual and masculine sides, and that such teachings would help restore the church to what it is supposed to be, a sanctuary where black men feel approved of and chosen for who they are.

11:15 – 11:45

Stephanie Boehringer

The African Diaspora and Religious Identity: A study of African Cultural Influence on Carnivale in Trinidad and Tobago from 17th to 21st Century

Mentor: Carissa Massey**Ribbon: Crossing Boundaries and Disciplines**

From 1525 and lasting until around 1867 the spread of African culture through a forced dispersion of African people as slaves from African communities has influenced many cultures in the world; places such as the Caribbean and the New World cultivated in these places a mixture of cultural traditions. Art and festivals, such as Carnivale, that are prominent in Trinidad and Tobago relate to religious and ritual practices brought from African slaves and Catholic missionaries to the islands. Through analysis of Carnivale festivals in Trinidad and Tobago during the colonial period of the islands, significant influence of African culture and traditions were spread via slavery; the impact of African customs is revealed through artistic displays and manifestations of African aesthetic ideas in Carnivale performances. This paper explores the impact of this cross-cultural fertilization on the religious festival Carnivale in Trinidad and Tobago and the subsequent development of fusion Afro-Caribbean identity through such pageantry.

Session 8

Hickman Board Room

10:00-10:20

Mariah Postlewait*The Hottentot Venus: Icon of Racial Objectification and Liberation***Mentor: Carissa Massey****Ribbon: Caring for Humanity and the World**

Sara Baartman grew up in South Africa in the late 18th century and earned the infamous title “The Hottentot Venus” for her “unusual” body proportions and forced participation in ethnographic displays in London. In death, various parts of Sara’s body, her genitals, brain, skeleton, and plaster body cast, were put on display in the Musee de l’Homme for nearly two hundred years until recent repatriation of her remains in 2002. The acts of racial subjugation and objectification that affected Sara Baartman and made her world-famous did not decide only her fate, but established a basis for the treatment of Africans. Black women fight centuries of ingrained negative views and attitudes towards female African sexuality and beauty. The evidence of this discrimination of women within the African Diaspora is laid bare through literary, theatrical, and visual artistic works. Through the same channels, reactions and desire for change emerge in the art of black female artists. This research explores the life of Sara Baartman, her antemortem and postmortem display, and analyzes the ways she impacts racial disparagement and racial liberation in relationship to black women, particularly within the realm of art.

10:25-10:45

Ashley Falcon*Gender Attitudes in Argentina***Mentor: Deborah Field****Ribbon: Thinking Critically**

Despite political gains by women, gender attitudes have remained unchanged in Argentina. Women such as Eva Peron and Cristina Kirchner have gained political acceptance and power in the country. However, despite these political gains and a female president, gender inequalities remain. The lack of laws protecting women’s interests plagues a region where gender quotas are implemented in the government’s congressional system. Sixty years ago women could not vote and even thirty years ago when women could not get divorces from their husbands. Though there has been progressive change for women’s rights, there is much needed room for improvements.

Access to ideas from around the world has brought about positive change for women in the country. However, the inequalities that remain hinder more developments in the nation. Healthcare for women is well below the worldwide standard and the United Nations has named maternal mortality as the number one cause of death for women in Latin America. Argentina tops negative female body images with high rates of anorexia, plastic surgeries, and a society based around patriarchy. The government does very little in regards to women’s rights, and instead aims to continue the status quo, even with a female president.

Cristina Kirchner’s detachment from feminism has further stigmatized pro-women groups and stalled progression into a more egalitarian society. However, feminist groups and ordinary citizens have risen to this challenge. To obtain a more genuine analysis outside of the known scholarly research, I asked women and men in Buenos Aires, Argentina questions regarding their gender attitudes as well as attitudes to women in political power. I discovered that while Cristina Kirchner had an impact on the view of women, this impact was usually negative.

10:50-11:10

Shelley DeHosse*"O! For a muse of fire..." The Potential Influences on Shakespeare's Henry V***Mentor: Michael Allen****Ribbon: Learning throughout a Lifetime**

The paper discusses the possible influences of Shakespeare's history play Henry V, and the likelihood that Shakespeare actually consulted these sources. The paper describes the life of the English king, and provides a summary of the play before going into specific details about the potential influences. The primary influence that the paper discusses is Raphael Holinshed's Chronicles, which tells the life story of Henry V, and is thought to be an influence on other works by Shakespeare. Other plays and texts talk of Henry in positive and negative ways. At times, he is described as being a strategic soldier, and at other times, a tyrannical king. Some texts look almost identical to Shakespeare's, as far as word choice and language itself go. There are, however, some issues with those texts being in Middle English, as discussed in the paper, as far as wording and content. The paper endeavors to prove that Shakespeare did in fact use the Chronicles and other sources of his time in the writing of his play.

11:15 – 11:45

Scott Fisher*Jazz in Nazi Germany: Love and Hate Relationship***Mentor: Deborah Field****Ribbon: Crossing Boundaries and Disciplines**

This paper examines jazz in Nazi Germany. The Nazis opposed jazz because of the racial implications, the sexual meaning behind the music and the way people danced to it known as swing. Yet it was popular, especially among young people because they could use it to rebel against the Nazis and Hitler's Youth army and it was completely a completely different style of music, unheard of before its time. The paper argues that jazz music was popular in Nazi Germany because people were looking to have a good time and refused to conform. The paper draws upon a wide variety of sources from Nazi propaganda posters, books, newspaper articles, and even recordings of German jazz.

Session 9

Knight Auditorium

10:25-10:45

Bridget Dill
*Live Unplugged***Mentor: Garin Horner****Ribbon: Caring for Humanity and the World**

Live Unplugged: [liv] [uhn-pluhged] Verb (A Way People Should Live)

Twentieth century author Andre Malraux once described art as “a revolt against fate.” As an artist, writer, and graphic designer, I couldn’t agree more. Artists hold a great power over those who view their creations that can be used for revolutionary purposes. This spring I will be displaying a revolutionary art exhibition around the Adrian College campus entitled “Live Unplugged.”

“Live Unplugged” examines the impact of technological “conveniences” such as texting and Facebook on social relationships and society as a whole. The works in my exhibition are comprised of graphically designed desktop backgrounds, posters of large and standard print size, and videos which compare and contrast life “plugged” and life “unplugged.” It is my intention that my works impact viewers on a deep level and cause them to question the importance of their reliance on technological entities.

10:50-11:10

Travis Cook
*Canada: A Means to Freedom***Mentor: Deborah Field****Ribbon: Caring for Humanity and the World**

This paper explores the journey of African Americans from slavery to freedom, by reaching Canada. In 1833, under British rule, Canada abolished slavery becoming a gateway to freedom for runaway slaves. In 1850 America passed the fugitive slave act stating that any slaves who had escaped to the northern states must be returned to their masters. Therefore, Canada as a state of freedom, meant so much more. I argue that freedom for these runaways meant they no longer had to fear slave catchers, they could unite with other African Americans who had escaped, and they could regain their family and sense of manhood. They could also create their own communities which allowed for their own economy as well as practice their true religion. In order to prove my argument I have used primary sources from the Black Abolitionist Papers in Canada 1830-1865 as well as some secondary sources which explore the journey to Canada written by authors such as David Blight and William Sriebert. I feel that this presentation best fits caring for humanity and the world because it touches on both aspects, the struggle in humanity at the time of slavery as well as the affects this time period had on our world.

11:15-11:45

Cyle Rogotzke*Lack of Health Literacy: An Increasing Problem in American Public Health***Mentor: Marcia Boynton****Ribbon: Thinking Critically**

Health literacy can be defined as the capacity to comprehend basic medical information and make an informed health decision. Unfortunately, many Americans lack fundamental health literacy skills to make medical decisions. This problem has been estimated to cost the nation a range of \$106 to \$236 billion dollars annually. The presentation will discuss the implications of America's growing health literacy problem. To understand the magnitude of limited health literacy, among young adults, a survey was given to Adrian College students. The survey asked questions centered on basic health care knowledge. Analysis of the results determined if Adrian College students possess basic health care knowledge. Plans to improve the nation's health literacy quandary will be addressed.

Session 10

Peele 207

10:00-10:20

Krystin Stiefel*Clean Up on Reactor 4: The Impacts of Nuclear Disasters and Lessons Learned from Chernobyl and Fukushima***Mentor: Laura Polchinski****Ribbon: Thinking Critically**

On March 11, 2011, the Tōhoku earthquake and tsunami started the chain of events that led to the Fukushima Daiichi nuclear disaster in Japan. The earthquake and tsunami damaged the backup power and containment systems, leading to meltdowns and releases of radioactive materials. One month after the earthquake and tsunami, the nuclear event was rated a level 7- a “major accident” on the International Nuclear and Radiological Event Scale. There has only been one other level 7 nuclear event: the Chernobyl disaster in the Ukraine of the former Soviet Union. The Chernobyl disaster occurred over 25 years ago, but the site clean-up and containment are still ongoing. The Chernobyl and Fukushima nuclear disasters are very different events, but both have had and will continue to have impacts on the nuclear power industry. In this study, the Chernobyl and Fukushima nuclear disasters were examined to determine the impacts on people, the environment, ethics, the economy, and the future of nuclear energy.

10:25-10:45

Krista McNichol*"Rachel and Leah: A Story of Love or Violence?"***Mentor: Melissa Stewart****Ribbon: Crossing Boundaries and Disciplines**

For many feminist biblical interpreters the Rachel and Leah story stands out as a narrative of deception, patriarchy and violence. These recent critiques contrast with traditional interpretation where the two are often seen as role models for women. Yet Laban's deception of Jacob forces Rachel and Leah to end up married to the same man, Jacob, which ultimately pits the two sisters against each other--not exactly a model of sisterhood or feminism. Rachel forces her slave to sleep with Jacob when she cannot produce children, and eventually Leah follows suit and makes her slave sleep with Jacob when her womb dries up. Rachel and Leah consistently compete to win Jacob and society's favor by having as many of his sons as possible. Following Susanne Scholz's argument, I suggest that by using their slaves to produce more children Rachel and Leah abuse Zilpah and Bilhah in order to increase their social status. Feminist interpreters have further argued that God chooses and changes sides when it comes to gracing his people [1]. In the Rachel and Leah narrative, God graces Leah first by opening her womb, while Rachel's womb stays closed. Later in the story, God remembers Rachel and opens her womb for two sons. But these sons are a mixed blessing since she dies during the second child birth. Nowhere in the story does God choose the side of Bilhah and Zilpah. These slaves are left silenced and raped [2]. The author of this paper argues that God supports his own over others so no general claim by liberation theologians that God supports the lowliest can be substantiated by this narrative. And furthermore Rachel and Leah reinforce patriarchy by using “lower” women to earn respect from Jacob and society.

10:50-11:10

Delaney Andrews*Do You Think You Can Trust Me? An Exploration of the Ethical Importance of Truth in Creative Non-Fiction***Mentor: Linda Learman****Ribbon: Thinking Critically**

"...The pictures get jumbled; you tend to miss a lot. And then afterward, when you go to tell about it, there is always that surreal seemingness, which makes the story seem untrue, but which in fact represents the hard and exact truth as it seemed." -Tim O'Brien, *The Things They Carried*

the terms "fiction" and "non-fiction" were coined to establish a clear line that defines what is real and what is not in writing. However, in recent years, that line has blurred so much that the question of whether or not a piece of non-fiction is true and how much that matters has become a major topic of ethical concern. For example, author James Frey was widely disgraced when the public discovered he fabricated many of the events in his moving memoir "A Million Little Pieces", while Dave Eggers was highly acclaimed for his memoir "A Heartbreaking Work of Staggering Genius", wherein he makes obvious that some of the events he regales are not told exactly as they occurred. I will explore the difference between these two cases why there are such different outcomes when the authors essentially commit the same offense. My presentation will aim to make distinctions between what respectively constitutes terms such as truth, reality, dishonesty, and fictionalization, and how responsible an author is to tell a "true" story. Through studying my own works and those of O'Brien, Frey, and Eggers, I will explore the limits of creativity within the field of non-fiction, and track the thin line non-fiction writers walk every day.

11:15 – 11:45

George Holton*An Examination of the Economic Differences Between Right-to-Work and Closed Shop States***Mentor: James Hanley****Ribbon: Thinking Critically**

The purpose of this presentation is to show the creative use of technology throughout lesson plans. This presentation shows one lesson plan in particular that utilizes three different technological resources while continuing to meet state standards and benchmarks, along with activating student's prior schema. By using various forms of technology, students will be more motivated and have the opportunity to be fully engaged in class via multiple mediums.

Session 11

Goldsmith 109

10:00-10:20

Thomas Zimnicki & Josh Teeter*Michigan International Speedway: More Than a Racetrack***Mentor: Jim Martin****Ribbon: Crossing Boundaries and Disciplines**

Michigan International Speedway (MIS) is an organization focused not only on NASCAR but also community enrichment programs. Sitting on over 900 acres of land, 150 of which are various wetlands, MIS sought to develop a scientific educational outreach program using the natural resources on their property. The goal of the research was to develop a taxonomic list of species living on MIS property. Samples of vertebrate, macro/micro invertebrate, as well as plant species were captured and cataloged throughout the summer of 2011. In addition to taxonomic work, water quality testing was conducted within the wetlands of MIS. Water testing focused on levels of chloride, nitrate, pH, and conductivity which would allow determination of overall water quality. At the conclusion of the research, educational posters detailing the findings at Michigan International Speedway were developed and showcased for public use.

10:25-10:45

Ashley Drop*Extraction of an Inducible Anti-Cancer Compound from Soybean***Mentor: Janet Salzwedel****Ribbon: Caring for Humanity and the World**

Glyceollins, from soybeans, have been studied as a possible breast cancer treatment/preventative. The structure of Glyceollin is similar to that of estrogen and Glyceollin has been shown to inhibit cell proliferation in Estrogen-receptor positive breast cancer cells. The procedure being used at Adrian College to extract this compound consists of treating young soybean plants with silver nitrate. Next, organic solvents are used to extract an induced mixture of compounds, including Glyceollins. The mixture is then concentrated by evaporating the solvents using a rotary evaporator. A Thin-Layer Chromatography plate is developed for verification of extraction and separation of Glyceollins. Ultraviolet spectroscopy is then used to quantify Glyceollin. Data on Glyceollin quantities after different plant treatments will be presented.

10:50-11:10

Krystin Stiefel*The Wonderful Atomic World of Disney***Mentor: Michael Claus****Ribbon: Developing Creativity**

Walt Disney was an American film producer, animator, and showman. He was known not only for his animated films, but also for his support of science and technology advancements. Disney believed that atomic power was the energy of the future. To help people understand atoms and their potential power, Disney and German scientist Heinz Haber teamed up in the 1950s to tell the story about the atom in a unique and creative way using illustrations and video. This story about the atom is known as *Our Friend the Atom*, available as a book and a television episode. Disney compares atomic energy to a powerful “atomic genie,” comparable to the genie in the fable “The Fisherman and the Genie.” While atomic power can be destructive, it can also be used for creation, giving more food and better health. Despite the problems of nuclear energy, Disney crafted an optimistic representation on what we can use nuclear energy for. This presentation examines *Our Friend the Atom* and how concepts can be explained through creative means.

11:15-11:45

Sarah Sokolowski*Animal Testing: An ethical dilemma?***Mentor: Jeffrey Lake****Ribbon: Crossing Boundaries and Disciplines**

The controversial debate surrounding animal testing has been going on for many years. One side argues that testing commercial, medical, and industrial products, methods, and substances is ethically wrong in all cases. There have been many tests performed to prove that animals do feel pain, which helps validate the argument against animal test subjects. The opposing side insists that this is untrue. There have been many notable and useful scientific advances from tests carried out using animal subjects. Because of the advances that have been made, and the information that has been gained, scientists have argued for the merits of animal testing based on quality of outcomes. In this talk, I ask if it is really so morally wrong to use animals as test subjects, using a utilitarian and consequentialist ethical framework. As humans with a capacity for higher level thinking, we are able to develop test methods that limit or eliminate the amount of pain animals will feel. However, does this higher level of thinking give us the authority to decide what animals should have pain inflicted upon them, regardless of the amount?

Session 12

Jones 204

10:25 – 10:45

Ashley Snyder, Chloe Stiriz, & Paul Prielipp
*Soft Skills and their Importance in the Workplace***Mentor: Patrick Quinlan****Ribbon: Learning Throughout a Lifetime**

“Soft skills” refers to the collection of personal attributes and competencies that enhance an individual’s interactions, job performance, and overall market value. Soft skills include the ability to listen well, handle conflict, work in teams, and communicate effectively. Companies are now looking for more than technical talent when hiring- they are looking for individuals who have the skills necessary to work well in their organization. This is portrayed in the common saying that “hard skills will get you an interview, but you need soft skills to get and keep the job.”

We will be conducting research to determine which soft skills are most valued by employers and which are most beneficial to employees in the workplace. After our research is completed, we will create and conduct a program to help a group of women at the Catherine Cobb Center further develop their soft skills and thus supplement their hard skills, increasing their marketability. This presentation will cover the importance of soft skills in the workplace, the results of our research on the most important soft skills, the program developed for the Catherine Cobb Center and a discussion of the results of that program.

10:50 – 11:10

Erick Sala*Entelechy of Trepidation***Mentor: Garin Horner****Ribbon: Crossing Boundaries and Disciplines**

Using modern computer technology, it’s possible to create digital three-dimensional sculptures that blend the organizational complexity of computer science and classical aesthetics of traditional art techniques such as sculpting, painting, and drawing. Through traditional sculptural and figural training at Adrian College, an artist can look at a piece in three dimensions and realize that each dimension is dependent on each other for appearing realistic and believable. Through painting, an artist learns about colors, and how they interact with their environment, and how color and pigments influence appearances, and what colors cue the brain to tone and balance. Drawing teaches correct proportion and in most cases recreates what is observed. In this presentation, industry-standard software, such as Maya and Zbrush, will be used to demonstrate how sculpture, painting, and drawing can be applied to create characters for film and video games under the ribbons of Crossing Boundaries and Disciplines, and Developing Creativity.

11:15 – 11:45

Danielle Prielipp*Hysteria in Hecuba and Other Murderous Mothers***Mentor: Robin Bott****Ribbon: Thinking Critically**

This research paper explores Euripides' tragedy, "Hecuba," and other classical works featuring murdering mothers and how they were influenced by the myth of the "Wandering Womb" and contemporary theories on hysteria. It is argued that these tragedies perpetuate negative stereotypes about women and call into question the relationship between mother and child, father and daughter, the woman and her lover. Further, the paper examines how the misdeeds of one woman influence the actions of other women. It goes on to examine the representation of these themes in later artistic renditions of these classical works of literature. These themes represented in art also serve to perpetuate these negative views. .

Session 13

Rush 124

1:30 – 1:50 **Jessica Saunders, Alex Pistilli, Josh Gorney, Kelly Eberhardt, & Lauren Rehe**
African Clawed Frog

Mentor: Marti Morales-Ensign**Ribbon: Learning Throughout a Lifetime**

Neuroinformatics is a computational tool used in query able public datasets for the analysis and integration of scientific data obtained from diverse fields of Neuroscience. One such feature is the demonstration and use of neuroanatomical information in such public databases. During the previous year our laboratory began preparing an anatomical atlas of *Xenopus laevis* (X.l), the African clawed frog. This year we will present additional results and entire organism videos of two mid-larval developmental stages of X.l. Samples were prepared using histological procedures of paraffin embedded sections with counterstaining to help visualize tissue section morphology. Digital imaging and light microscopy techniques were used to create the videos and anatomical atlas. The work here will share our preliminary body of work towards our own construction of a query able *Xenopus laevis* anatomical atlas for students and researchers alike in the Neurosciences and in other such applied fields to use.

1:55 – 2:15

Shelby Mack*Effects of the AlterG Anti-Gravity Treadmill on Endurance Training in Non-Injured Athletes***Mentor: Adam Coughlin****Ribbon: Thinking Critically**

Background Information: The AlterG Anti-Gravity Treadmill uses differential air pressure and an unweighting system to aid in the rehabilitation of injured people by reducing ground reaction forces. The official AlterG Anti-Gravity Treadmill website claims that although the main function of the AlterG is for rehabilitation, the AlterG can also have distinct enhancement on sport performance. It claims that the AlterG will allow an athlete to train longer, run faster, gain additional strength, and enhance the cardiovascular system. The overall aim of this study is to determine whether the AlterG can be utilized as an effective training tool for non-injured athletes. Purpose: The purpose of this study is to compare the effects of training two groups of non-injured runners with respect to endurance markers on the AlterG Anti-Gravity treadmill compared to a traditional treadmill during a long-term training program. Methods: Thirty-two participants will be recruited for this experiment, sixteen male and sixteen female, and will be randomly split into two experimental groups. Experimental group one will utilize a standard treadmill running at 100% of their body weight, whereas experimental group two will utilize the AlterG Anti-Gravity Treadmill running at 50% of their body weight. The experimental study is designed to last 8 weeks, consisting of 1 week of pre-testing measurements, 6 weeks of exercise on the specific designated treadmills, and 1 week of post-testing measurements. Subjects will only run one run on the designated treadmill per week, but must be still maintaining a minimum of 20 miles per week on their own. The pre and post test measurements will consist of assessing the subject's age, height, weight, and performing a discontinuous VO₂ max test. The pre and post test values for the discontinuous VO₂ max test, submaximal test values, heart rate, and training time per 8 mile workout will be analyzed for an overall statistical difference. Results & Conclusions: This study is a proposal and is planned for a future experiment in conjunction with the Exercise Science Department in the Human Performance Lab at Adrian College. Although this study has not been performed, we hypothesize that the subject's VO₂ max will not vary from pre to post testing or between experimental groups. If this is true, this suggests that running on the AlterG can produce similar cardiovascular responses with the decreased chance for overuse injuries when compared to a standard treadmill.

Session 14

Hickman Boardroom

1:30 – 1:50

Scott Krystiniak*Discovering the Source of Morality: Hume, Kant, and Sociopathy***Mentor: Jim Spence & Tony Coumoundouros****Ribbon: Thinking Critically**

In his Enquiry Concerning the Principles of Morals, Scottish philosopher David Hume famously states that morality is “more properly felt than judg’d of” (p. 470). Hume posits that the source of morality is a particular set of human feelings or sentiments, which are comparable to physiological sense perceptions such as taste or pain. Hume also maintains that these feelings function as data supporting his inductive moral claims. This is made possible by his landmark empirical approach to discovering morality. However, David Hume’s moral theory is contested by Immanuel Kant’s rationalist perspective. Kant’s moral theory relates morality to the special human faculty of reason, but does so in a way superior to many rationalist philosophers before him. Essentially, Kant holds that the source of morality is our innate rationality and that this rationality gives us each dignity and intrinsic worth. For Kant, moral principles are rationally derived from the intrinsic worth and dignity of human life. It is the goal of this project to analyze and evaluate Hume’s sentimentalism and Kant’s rationalism using contemporary psychological literature on Sociopathy. I will then determine whether recent research supports either Hume’s sentimentalism or Kant’s rationalism.

1:55 – 2:15

Lauren Fabian*Lurking in the Shadows: A Comparative Analysis of Isaac and John the Baptist***Mentor: Scott Elliot****Ribbon: Thinking Critically**

Isaac, son of Abraham and John the Baptist, prophet of Jesus Christ; both men play tremendously significant but seemingly rather different roles in the Bible. On the surface, this may hold true, however, their characters are far more similar than different. This paper highlights two significant comparisons between the men: their unique birth narratives and their hazy characterization. Of all the births mentioned in the Bible, those of Isaac and John share the most in common based on themes, language and prominence to their characterization. Arguably the highlight of their lives is their birth, which then transcends the characters themselves. Drawing on the work of Elizabeth Boase on the characterization of Isaac, I analyzed the figure of John the Baptist to demonstrate that both men are presented in an ill-defined and shadowy manner, and are subordinated to the great men that frame them, Abraham and Jesus. The purpose of this paper is to invite a reexamination of the characters of Isaac and John the Baptist in order to think critically about the purpose and implications of the similarities of their characterization for understanding their respective narratives.

Session 15

Knight Auditorium

1:30 – 1:50 **Brittany Hall, Carrie Kline, Meredith Maniscalco, & Jill Sabo**
National American Art Therapy Association Conference: Overview & Impact

Mentor: Pi Benio**Ribbon: Caring for Humanity and the World**

During the past summer, four students from the Adrian College Art Therapy Club were given the opportunity to travel to the 42nd Annual National American Art Therapy Association Conference in Washington, D.C. The conference consisted of presentations and demonstrations promoting the effectiveness of art therapy and highlighting the latest research findings in the field. Each student will present what they discovered at the conference and how it influenced their experiences during the fall 2011 semester. The two seniors based their capstone projects on previous research in the field of art therapy and will discuss the results of their studies. The two sophomore students will focus on the influence that attending the conference had on their professional internships at Maurice Spears Juvenile Detention Center and Lenawee Medical Elderly Care Facility.

1:55 – 2:15

Alisha Brink*Macbeth II: The Making of an Original Play***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

In this presentation, Alisha Brink explores what it takes to write, revise, and present a staged reading of an original two-act play. From the original idea formation all the way onto the performance stage, this presentation ascertains the work and process of creating *Macbeth II: A Comedy*. The play focuses around two theatre companies—one American, one British—who are competing for their right to perform their own respective productions of Shakespeare's *Macbeth*.

2:20 – 2:40

Amila Zecevic*The Poisoned Fruit of Milton's Forbidden Tree***Mentor: Scott Elliot****Ribbon: Crossing Boundaries and Disciplines**

In my paper I compare *Paradise Lost* to *Genesis: 3*. I dissect Milton's reading of the garden narrative to demonstrate how his artistic likeness is problematic ethically because of its male dominant portrayal, marginalizing as well as demoralizing Eve, a character that embodies the entire female gender. I demonstrate how a more ethically valid interpretation is available by arguing that a feminist reading of this story sheds light on Eve as an intelligent human being rather than Milton's choice to present her as a greedy character. The feminist reading rejects marginalizing or discrediting anyone in contrast to the patriarchal portrayal by which Milton overshadowed Eve, leading to generations of patriarchal interpretations and views of Eve. My paper challenges the patriarchal views that have constrained Eve by analyzing and interpreting from a feminist perspective that reclaims Eve and the biblical text on behalf of readers who have been otherwise wrongly characterized by patriarchal readings, like that of Milton.

Session 16

Peele 207

1:30 – 1:50

Coleen Higgins*A Study of Contemporary West African Photography***Mentor: Carissa Massey, Garin Horner****Ribbon: Thinking Critically**

My presentation will be on the analysis of contemporary West African photography and how it reveals the sophisticated use of contemporary art strategies such as multimedia sets and the use of editing to make prints. I will talk about the works of two West African photographers, Philip Kwame Apagya and Seydou Keita. Specifically, Philip Kwame Apagya and Seydou Keita's portraits and their reliance on editing and photographic techniques.

1:55 – 2:15

Mariah Postlewait*Photography as Memory***Mentor: Garin Horner****Ribbon: Thinking Critically**

Photographs can be used as a basis to invent memories of events in time that people think they remember. Family photography plays an important part in the lives of families in our culture, most of which have an album or set of albums containing these images. Families and individuals directly shape the way in which they are viewed; and the image that they present through their images. The process of taking, sorting, and choosing which photographs to keep and to share determine what kind of story is told, and therefore, what kind of memories will be created or preserved. Such memorabilia has a key role in triggering and revisiting memories; even in creating new ones.

2:20 – 2:40

Amy Merson*Photography***Mentor: Garin Horner****Ribbon: Developing Creativity**

In my photography I have experimented with different animals as subjects, large and small, but I always find myself coming back to my favorite subject, my dogs. My love for animals and passion for dogs lead me on the path of using photography to raise awareness to the benefits of pet adoption. Lost in Found is the title for my work, which is a series of sepia photographs of dogs that are either up for adoption and ones that found their final homes. Every photograph tells a unique story through the eyes of its subject while drawing a deep emotional connection with its viewer.

Session 17

Goldsmith 109

1:30 – 1:50 Adrienne Haase, Amanda Lambert, James Gomez, Colleen Tecamp & Emily Pilon*Adrian College Chapter of the American Advertising Federation: Nissan Advertising Campaign***Mentor: Patrick Quinlan****Ribbon: Developing Creativity**

Our AAF presentation exhibits the advertising campaign that we have put together for Nissan, the sponsor of this year's American Advertising Federation National Student Advertising Competition. Under the guidance of faculty advisor Professor Patrick Quinlan, we have developed a marketing campaign throughout the academic year, complete with original music and research. We will explain our strategy for Nissan's growth in three distinct market segments (of Multicultural Millennials): African American, Hispanic, and Chinese. Included with our strategy are our recommended media mix, media buys, promotions, social media ideas, creative approach, and environment for Nissan. This is a professional presentation demonstrated by several of our AAF chapter members.

1:55 – 2:15 David Trevisan, Jeremy Bamford, James Graney, Delano Collins, George Holton*Steve the Skunk: An Entrepreneurial Venture***Mentor: Oded Gur-Arie****Ribbon: Developing Creativity**

During the fall 2011 Fundamentals of Entrepreneurship class we were told to make as much value as possible out of \$5 during homecoming weekend. Our group decided to not concentrate on monetary value and instead get out a message. The message we chose to spread was to not drink and drive. In order to spread this message we decided to use a costume that one of the group members had, a 6 foot tall skunk. Using this skunk we created a persona, Steve the Skunk. Steve quickly became a social networking hit by creating a Facebook and Twitter account, along with creating a video to spread the message. Signs were also hung in the academic buildings and Caine Student Center. Steve quickly rose to over 115 followers in the short space of five days, and has become a campus celebrity. Research was also done on what the value of a Facebook like was and according to a market research study one Facebook like is worth \$135. This puts the overall value of Steve the Skunk at \$15,525.

Session 18

Chapel

2:30 – 3:00

Laura Greer*The Last 100 Years in Musical Theatre***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

The Last 100 Years is a presentation of varying styles of musical theatre, classical repertoire, dramatic and comedic acting, and dance. Every decade from 1900 to present is represented with some type of creative expression from Ashley Greer's adaptation. In a little over an hour, the audience not only gets to sing along, but witness the hard work and dedication that it takes to be a true "triple threat": excelling in music, dance, and acting. Some numbers include the ever so popular title-track from Cole Porter's Anything Goes, "So Much Better" from the hit musical Legally Blonde, and a French aria from the opera Carmen. This recital features a tap duet and a lyrical dramatic scene intertwined with the song "Poison and Wine" by The Civil Wars. The Last 100 Years features the work of Greer, as well as the talents of Adrian College theatre, music performance, and musical theatre majors. Accompaniment by Mariah Passalacqua. Vocal instruction by Beth Major. Acting instruction by Michael Allen and Annissa Morgensen-Lindsay. Dance instruction by Sue Smith.

3:15- 3:45

Gabrielle Piazza*Life Set to Music***Mentor: Annissa Morgensen-Lindsay****Ribbon: Crossing Boundaries and Disciplines**

Through research and collaboration; I built a performance that demonstrates a variety of musical theatre styles and its different aspects. This includes original choreography, monologue and scene work, and vocal pieces, both solo and duet. The music spans a century with characterization demonstrating my versatility as an actress through personality as well as skill. An effort was also made to appropriately include math and Spanish, my other fields of study. I collaborated with other performers displaying the interactions that are so common in theatre. Vocal pieces include Show Off, an up-tempo piece from the Drowsy Chaperone, and Rogers and Hart's falling in Love with Love. A scene from Proof, by David Auburn, showcases dramatic scene work, while a Spanish monologue from Lope de Vega's Fuenteovejuna incorporates my love of that language. A partner dance to "Elaborate Lives" from Aida helps to round out the performance with original choreography.

4:00 – 4:30

Sarah Nietupski*Beethoven and the Horn***Mentor: Colleen Conway****Ribbon: Developing Creativity**

Ludwig van Beethoven (1770-1827) was a prolific late-Classical composer whose works transitioned the musical world into the Romantic era. Despite being deaf for the majority of his musical life, Beethoven succeeded in composing a variety of genres that set the standard for all composers following him. Although exploring the intricacies of all instruments, Beethoven's use of the horn in his works is especially unique and historically ground-breaking. This presentation will discuss the progression of the horn in Beethoven's compositions, from his early solo piece, to its use in chamber music, and its different textures, colors, and motives in symphonies. Following the presentation, I will perform a few select orchestral excerpts.

Session 19

Downs Theater

3:00 – 3:30

Sasha Gale*Composer Joseph Schwantner: "Two Poems of Agueda Pizarro"***Mentor: Elizabeth Major****Ribbon: Developing Creativity**

Joseph Schwantner is one of the most prolific American composers and conductors of orchestral music today. Aside from numerous orchestral works, he also wrote a few vocal compositions, one of which includes, "Two Poems of Agueda Pizarro," composed in two parts, "Shadowinower" and "Black Anemones." This piece explores an intricate melodic dialogue between soprano and piano that joins two distinctly unique ideas into a duet filled with the richness and color of the text upon which it rides. Originally written for flute and piano, the soprano voice mimics the free and soaring lines usually associated with the flute's distinctly sweet and intimate timbre. This presentation will discuss the musical effect of this compositional theory through a part-by-part analysis of the piece, followed by a performance of "Black Anemones."

3:40 – 4:00

Megan Kisch*The Depth of an Actress***Mentor: Annissa Morgensen-Lindsay****Ribbon: Learning Throughout a Lifetime**

This presentation displayed the work and effort utilized to create a successful senior acting recital. This presentation showcased the skills and talents of acting with highlights from vocal abilities as well. A variety of styles from diverse time periods, ranging from classical to contemporary work were featured such as Helen of Troy and Eliza Doolittle. There were performances of scenes and songs that required the assistance of acting partner such as a scene from the 2004 play Proof. This project was the culmination of a two semester process including research and rehearsal.

Session 20

Knight Auditorium

3:00 – 3:30

Brian Crawford
The True Role of Aaron

Mentor: Annissa Morgensen-Lindsay, Michael Allen**Ribbon: Developing Creativity**

In William Shakespeare's *Titus Andronicus* I have played the role of "Aaron the Moor," Tamara's secret lover and the diabolical mastermind behind the plot to destroy the Andronicus family. *Titus Andronicus'* Aaron is often studied as an emblem of immorality due to the color of his skin. Shakespeare draws on 16th century stereotypes in his portrayal of the character. For example, Aaron's black skin is synonymous with evil throughout the play. He is referred to as a "barbarous" Moor on several occasions. Also, Aaron displays the hyper sexuality often associated with black characters in Elizabethan literature. Aaron simultaneously embraces and defies these stereotypes.

Through my analysis and portrayal of the character, I have found that Aaron struggles with his loneliness because he has never had anything or anyone worth caring about. Many people believe Aaron was mistreated all his life just because the color of his skin. The character of Aaron is often portrayed as evil and cruel because of his ethnicity, but I developed Aaron's wickedness and brutality based on the psychological damage caused by years of past abuse. A lot of Aaron's anger comes from the painful memory of watching his parents be hung and burned alive when he was just a young boy. This event leads Aaron into a world of loneliness and is why he has no one in his life worth true meaning until the birth of his son. The birth of Aaron's son showed me that he has a heart by revealing the truth about all his wrong doings just so his son could live a normal life.

For Ribbons of Excellence I have a few monologues and scenes from the play that feature Aaron. These monologues and scenes were specifically picked out to support my characters position and where he stands in the play.

Session 21

Peelle Entrance Alcove

9:00 – 10:00

Kristina Martin
Rejecting Universal Views of Beauty

Mentor: Cathie Royer, Greg Jones**Ribbon: Developing Creativity**

Primarily, this series of human figures share characteristics and individual dialogues, which express a large format, of conscious and deliberate brush strokes of intentional definition and art practice. Recognizing the making of art no longer has become a matter of proportions and correct techniques these compositions open a reality that abstract imagery transcends through the senses with vibrant color, shape and form. This art holds an aesthetic to create a dialogue subject to the viewer that lies beyond the walls of a gallery or museum. Therefore, this art rejects the universal views and explore subjectivity, and suggests that subjectivity is split (conscious and unconscious), and are intentionally fragmented. The motivation is that the gallery space be transformed in an excess of these images; therefore, the content will express an emotional perception to the viewer that the conscious is led to by the development of an abstract style. The instillation consists of one cast paper pulp sculpted figure off white in color three-dimensional human figure is approximately 12" to human size. Assembled by clear monofilament that suspends it from the ceiling extending from the wall into the whole space. The painted compositions 8ftx2ft in proximity: abstracted images multiple colorful forms of non-objective human images, (the canvas is not framed and is also suspended by monofilament); horizontal branches are incorporated above the paintings as an element of aesthetics. The audience literally will enter into the work of art, becoming a functional part of the art itself and physically, encompassed by it. There is an automatic correlation in the sculpted figure and abstract paintings; for this reason, the viewers are encouraged to touch the hanging pieces to read text dialogue on back of each painting. The instillation and set of abstract characteristics through these creations, holds an aesthetic to create a dialogue to the viewer that lies beyond the walls of a gallery or museum.

Session 22

Outside 110 Madison, Caine

9:00 – 10:00

Sydney Wlodyka*The Artistic Process of Moments in Time***Mentor: Cathie Royer, Garin Horner****Ribbon: Developing Creativity**

As you experience life there are moments of time that stick out – Graduation. Prom. A wedding day. The birth of a child. Do the individual moments hold a memory together or are the people in those moments shaping the events? For me, it is the people around these moments – the one who made dinner while you studied, helped you hunt for the right dress or tux, and coached you through the hard days of life. There comes a time when these experiences transform from just a moment to a memory. A moment is a flash in time while a memory is the recollection of that moment. But there comes a time when the experiences are transformed from moments to memories.

Session 23

Dawson Entrance

9:00 – 10:00

Andrea Worthington*Senior Art Exhibition 'From Nature'***Mentor: Pi Benio****Ribbon: Developing Creativity**

The terra cotta sculpted forms in my senior exhibition revolve around the theme of nature and my knowledge of soon becoming an art educator for young children. In addition to taking the form of bugs, flowers, fruits, and leaves my work is very colorful, which gives it life and energy that correlates to the spirit and youthfulness of children. Through color, I can bring the audience into a happy/playful mood.

My show will contain a selection of wall pieces, small ceiling hung pieces, and work on the floor and will look best with soft lighting. Sixteen flowers, each a foot in diameter, that will come down the wall onto the floor. Another flower installation has a center diameter of 21" and about two dozen petals surrounding it, each ranging from 16" - 23" long. There will also be six bugs with their body parts made of fruit are about 1' wide and 1' tall and will hang on walls that I can put nails into. Another flower installation will sit on pedestals. There are two leaf-shaped boxes that have frogs and geckos on them are about 2' long. There is a set of 3 strawberry boxes that are about 10" tall. Some ceiling space will be needed for small bugs to hang from the ceiling.

Session 24

Dawson Entrance

9:00 – 10:00

Erika Squanda*Life, Love, & Faith***Mentor: Pi Benio, Greg Jones, Sarah Henry****Ribbon: Developing Creativity**

My paintings bring to life everyday earthly beauties found in children at play and beach landscapes. Through my art, I hope to relax viewers into the serene scenes and joy I find in painting. My goal is to spread hope, love, and cheer—all of which I believe emanate from the Original Artist—God.

I enjoy the lighthearted feeling I get when I have a good day. I attempt to put that feeling in paint. For me, art is freedom to move around and combine bright colors. My hope is to create whimsical scenes of **Life, Love, & Faith**. I would be honored to share some of my visional art with the Adrian College community!

Session 25

Dawson Entrance

9:00 – 10:00

Kristen Fleming
*The Uncomfortable Zone***Mentor: Cathie Royer****Ribbon: Thinking Critically**

“The Uncomfortable Zone” is social commentary on sexualizing female bodies in today’s culture. The idea of this painting exhibition is to surround viewers with large images that not only make them uncomfortable after confronting the literal representation of these “ideals,” but to persuade them to reassess social norms. The show is comprised of large-scale oil paintings depicting segmenting body parts most associated with this hyper-sexualized ideal. Large red lips, nude legs in heels and vaginal representations create discomfort with their bright aesthetic. For example, Business Transaction is a large painting of red, glossy lips hung at waist height. It is meant to invoke the idea of the culture-driven relationship between lips and male genitalia through a heterosexual male gaze. The show will contain 13-15 pieces, sizes ranging from 28”x28” to 25”x 40” in terms of 2D paintings and about 24”x 72” for a freestanding installation piece. For best results, the work needs to be installed in an enclosed area. I will be having a show in the Heritage Room of the Shipman Library, starting on November 14, featuring some of these works if an example is needed. The work is hung about a foot lower than the standard gallery height of 58” while the installation piece requires nothing more than floor space to walk a full circle around it.

Session 26

Valade Gallery

9:00 – 10:00

Courtney Brayman
*Face-to-Face***Mentor: Cathie Royer****Ribbon: Developing Creativity**

“Face to Face” consists of pairings of oil paintings that are hung from the ceiling using light weight chain (not larger than 25” x 25”). Each expressively painted oil portrait on canvas will be displayed in the Stubnitz Conference room from March 24th – April 6th. Paintings will be hung side-by-side in pairs, resulting in seven pairings, fourteen paintings total. Throughout the works displayed, I explore the similarities between the human race and animal kingdom. Sadly, individuals often seem to lose concern for one another, and begin to operate solely on the basis of self-interest. Even the most wonderful acts of kindness are often stained with aspects of individualistic concern. My work playfully captures the raw emotion conveyed by animals and humans alike in order to emphasize their similarities.

Session 27

Valade Gallery

9:00 – 10:00

Benjamin Coffman*Process to Overcome Pain: Healing with Art***Mentor: Pi Benio****Ribbon: Developing Creativity**

Because of the recent loss of my mother, I find my days filled with pain and to deal with that pain and sadness, I have turned to my artwork for healing. I will be creating will be functional ceramics, scaling from normal kitchen ware to large scale pieces. The kitchen pieces will range from mugs, bowls, and tumblers to more difficult pieces such as large serving bowls, casserole dishes and pitchers. The large scale ware will mostly be vases that are loosely based on historical pottery. All will be highly decorated or intricately glazed with an array of colors.

As my work will be in my senior exhibition in Valade Gallery at this time, the work will be installed on shelving in a room built with temporary walls. Ware will fill the shelves to the point of overflow and also broken bisque ware will be nailed to the walls above the shelves. The back wall will have a target painted on it with broken green ware spread out on the floor. The final touch will be a potter's wheel, slowly spinning in the middle of the room.

The viewers will walk into a tightly filled room with only one point of entry. I want the audience to feel how claustrophobic it's like to be in my head and how it feels so filled with thoughts, worries, stresses and grief on top of that all.

Session 28

Goldsmith Lounge

11:00-12:00

Cambray Sampson*Designing Costumes for Shakespeare's Titus Andronicus***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

Forming a concept for costuming a show is a multi-step process. Not only does the script need to be considered, but also the concept of the directors' collaboration with other designers. The costume design for Adrian College Theatre Department's presentation of Titus Andronicus by William Shakespeare involved research into several different time periods, compiling rough sketches, making decisions on design, rendering a complete costume concept, making decisions on the types and color of fabric to be used, and finally constructing costumes to be worn in the show. The design for the show is based off a concept of a traveling theatre troupe (loosely modeled after a traveling troupe) putting on the play Titus Andronicus set in Roman times.

Session 29

Peele Entrance Alcove

11:00-12:00

Timothy Schlemmer*After the Fall***Mentor: Cathie Royer****Ribbon: Developing Creativity**

After the Fall seeks to create a three-dimensional narrative in which the viewing space is manipulated by dramatic lighting and large-scale hanging sculptures. The story is realized through the expressional stances of small-scale figurative sculptures, and is meant to illustrate universal conflicts within the essence of humanity, investigating such issues as choice and the struggle between good and evil. Several large metal and plastic sculptures hang from the ceiling, acting as a means to transform the viewing space into a tangible narrative atmosphere, and within these structures are found the small figures, which serve as the means by which the visual story will be communicated to the viewer. As an exhibition, After the Fall explores the concept of thinking creatively not only in demonstrating artistic creation and the challenge of assembling physical materials into works of art, but also in regards to finding creative ways to communicate ideas to an audience.

Session 30

Outside 110 Madison, Caine

11:00-12:00

Katherine Slack
Vegetation vs. Industrialization

Mentor: Cathie Royer**Ribbon: Developing Creativity**

For this exhibition specifically, the exhibition is created into an environment. Ceramic pieces will vary in size, shape and height. Pieces will be beaded together to create tall forms held together at the base (floor) and wire attached to the ceiling, creating some give in case they are shouldered by the viewer. Viewers will be able to walk through and be able to feel a part of the environment. Slowly as they progress through this garden, the environment, the viewer is given the sense of destruction, hopelessness due to industrialization. The point that these pieces try to get across is that the environment is slowly changing. The environment has major negative impact on it when individuals bring industrialization, specifically hydraulic fracturing (fracking) into an area that is a habitat for many different plants and animals and slowly starts to disappear and deteriorate. These pieces also are trying to represent the fact that yes the environment can be less than habitable, but the environment will accommodate the man made changes in order to survive

Session 31

Heritage Room

11:00-12:00

Sarah Brooks
Developing a Children's Book

Mentor: Cathie Royer**Ribbon: Developing Creativity**

In this exhibit original art created for my children's book, The Thunderstorm will be displayed. Prints, not larger than 11" x 14", will be framed and hung on walls. A space where the lighting can be controlled will be necessary in order to adequately showcase 8 to 10 of the prints. Copies of the digitally printed book will also be available. The creation of my picture book began by first creating the text for the story. I wanted to create a story that would teach children while also entertaining them. To make the story relevant, I searched in my past for something that would resonate with young children. I remembered that I always had a curiosity with thunderstorms, wondering what caused the light and noise associated with these storms. I decided upon this topic for my children's book, so I did some research to ensure that my story would be factual. After the text was complete, the illustration process commenced. A storyboard and thumbnail sketches were created to give an overall representation of each page. After completing large sketches for each one of the images, they were scanned into the computer. Adobe Illustrator was then used to create the final line drawings and color was applied through the addition of dozens of layers to create a more realistic picture.

Session 32

Dawson Entrance

11:00-12:00

Kristen Smith*"More than What Meets the Eye"***Mentor: Cathie Royer****Ribbon: Developing Creativity**

This art exhibition displays acrylic paintings of high contrast, saturated color on wood and canvas, incorporating imagery shifting between abstract and representational work. These paintings raise a dreamy sense of something beyond the world we know. I explore the relationship between color values, text, imagery and the ability of the human mind to see simplicities of a complex world. "I Used To Hate My Curly Hair," a piece comprised of vivid color and overlapping text, guides viewers in understanding the deeper meaning. I evoke emotion through bits of color and texture, light and shadow, to fill each piece with an underlying meaning, like the piece, "Tongue Paper cuts From Envelopes." Colors have a number of meanings, like red, a very emotionally intense color. It enhances human metabolism, increases heart rate, and raises blood pressure. My aim is to create an atmosphere for the viewer's eyes to continuously move around and create their own meaning of each piece. The show contains up to fifteen paintings (not larger than 4x4'), occupying a space of controlled lighting and partial natural light. The pieces will hang by wire from nails at, above and below eye level. Lighting is essential in viewing colors of each piece.

Session 33

Valade Gallery

11:00-12:00

Mariah Postlewait*Family Tradition: Logging in the Narrative of Family Photographs***Mentor: Cathie Royer****Ribbon: Developing Creativity**

The logging industry is explored in this exhibition through traditional black and white photography that highlights such facets as daily rigors and ethical practices. Even more so, it delves into the lives of the family that owns and runs it. The exhibition seeks to take a documentary approach and examine logging as a foundational part of our country's culture and the culture of this family. This log yard is an example of tradition inherent to the area: rural north-central Pennsylvania. Additionally, family photos will play a role, exploring use in creating memories in American families. About twelve new pieces of black and white photography, alongside old family photos, comprise the exhibit. The imagery is highly detailed and textural in appearance featuring the machinery and buildings on site and the people who work there; the president of this small business in particular. Most pieces will have welded steel frames, approximately 18"x18" in size. This exhibition is an examination of tradition within small-town Pennsylvania: the tradition of family as it relates to business and as it is evidenced in family photos.

Session 34

Valade Gallery

11:00-12:00

Carrie Kline*Examining My Strengths and Weaknesses through a Lens***Mentor: Cathie Royer****Ribbon: Developing Creativity**

The artwork exhibited will be a series of 6 to 10 self-portraits in color digital photography. The content of the work will explore personal symbols associated with artist's strengths and weaknesses. In other words, each symbol strives to evoke an emotion that is similar to the feeling inherent in the strength or weakness. The symbols used were natural and man-made objects taken from environments which were important to the artist's development as a person. Every object was selected because of its strong textural imagery. The images were created with a Holga lens on a DSLR camera. This allowed for some unintentional discrepancies in color and focus to occur, forming visually disconcerting and chaotic imagery. This visual style ended up being ideal for this body of work, since relinquishing control was one of the weaknesses explored in the body of work. The artwork will be hung in the Valade Gallery as part of the series of senior exhibitions. Each photograph will be sized at 16 by 20 inches. The work is intended to encourage creative thinking and engage the viewer in their own self-reflection and self-analysis.

Session 35

Outside 110 Madison, Caine

1:30 – 2:30

Brenna Toland*The Reel***Mentor: Cathie Royer****Ribbon: Crossing Boundaries and Disciplines**

The goal of this work is to encourage and allow the questioning of reality as well as the manipulation of memory and experience. This body of work will consist of oil paintings upon canvas, Mylar, and illustration board, some using gesso techniques to create texture. Each painting will include at least one face, manipulated or abstracted in some way, displaying the various views that can be taken within life, as well as a background that is either surreal or strictly abstract to show manipulation of the world around us both in everyday living and in memory.

Interpretation and display are important to this body of work. How each painting is displayed will allow for multiple interpretations depending upon the personal experience that each audience member brings to it, which makes the process enjoyable. This body of work is focused upon the conceptual and perceptual rather than formal aspects of composition and compilation. The display space needed would consist of a wall which I can hang wired works upon.

Session 36

Dawson Entrance

1:30 – 2:30

Samantha Giovenco
"The Breakfast Club Revisited"

Mentor: Cathie Royer, Garin Horner**Ribbon: Developing Creativity**

My photography explores the expression and creativity of the individual through personal style. Every person has their own unique way of dressing. I believe that people use the way that they dress as a means to express themselves. By photographing people in the clothes they wear every day, I can not only capture the individual's emotions but also the essence of their personality.

My exhibition will consist of 14-18 11x14" photos of individual students, side by side in black frames. Each will be titled with how those photographed view themselves, i.e. "I am an art student" and "I am an athlete."

Session 37

Dawson Entrance

1:30 – 2:30

Sarah Sessions
Layers of Elements

Mentor: Garin Horner**Ribbon: Caring for Humanity and the World**

In this exhibition, I explore the idea of the elements of nature being overlooked and un-appreciated. The display I plan on using are that of life-size photographs depicting subjects who are engaged in nature. The images will be life-size in order to consume the viewer and allow them to explore the layers that the subject will be holding. The show will be a composition of four photographs, each hanging on their own wall. Projecting on to the wall will be different color lights which will depict the color of the element. The show will be an overall aesthetic creation of people engaged into the elements of illuminating nature.

Session 38

Valade Gallery

1:30 – 2:30

Brittany Hall
Individuals from Life

Mentor: Cathie Royer**Ribbon: Developing Creativity**

As an aspiring art therapist, I have had several experiences with both the mentally and physically impaired. These experiences have caused me to reflect carefully on the individual and interactions between the self and others, mainly emphasizing how these interactions can both help and/or harm someone. In my exhibition of large scale drawings, these themes will be expressed through the positioning, perspective, and emotions of the individuals being drawn. The focus will be how these individuals have influenced me through their strengths and our interactions. Portraits of the individuals will be life-sized and created with charcoal and oil paint on paper. The pieces will not be framed nor covered with Plexiglas; instead each will be hung by two push pins so that the viewer is able to connect and interact with the painting. The show will contain six works, approximately 6'2', and will be installed in Valade Gallery, a part of the Senior Exhibition II that will occur during Ribbons of Excellence day.

Session 39

Valade Gallery

1:30 – 2:30

Christina Cranmer*There's more to Life, Than Just Seeing***Mentor: Cathie Royer****Ribbon: Developing Creativity**

My experience with Photography has been a tremendous personal growing process. Taking on the role of a photographer, the camera has changed my perspective of the world around me. Throughout my photography journey, I struggled to find my place in the world of photography. I now see my world in a dramatic black and white setting conveying my subjects in a unique perspective with emotions. I love to capture my objects through a strong expressive emotion that acquires the audience to think and dig deeper. The images of the “cute” kitten and “adorable” child are to show a relationship between the animal and person; to show what characteristics and similarities they share. My photographs demonstrate how animals are like humans. It’s like what they say, “Your pet describes you or looks like you.” My goal is to generate and consider that these emotions between animals and humans are not only within just humans themselves but in other living creatures such as house pets and other animals. Some may have heard the word, anthropomorphic, which means any sort of recognition of human characteristics to non-humans; in this case it’s dealing with animals. My artwork contains certain animals that most humans tend to relate to: house pets, cats and dogs are the main pets people have. For those who have pets, people can relate to their animals and understand what is wrong with them or what they want and so forth. When we see that “Adopt a Pet” commercial or advertisement we tend to pity or feel sad for the animals they display because the animal themselves express a disheartening emotion. I would consider that people’s and animal’s emotions and feelings are something we may not take in account or we take for granted because we are so busy with ourselves or lives. How do we really know what's going on in their life and why do they behave or react the way they do? We may not understand the reasons as to why a person behaves or react the way they do, but you never know if they had a bad morning and woke up late, a recent death in the family, or dealing with personal issues. We’ve all dealt with something that disorientates or discourages our day or lives, which can also relate to animals because you never know if the dog you may adopt could’ve been abused previously before.

Poster Session

5:00-6:00

Adrian Tobias Room

Kylie Witt*A Summer of Discovery: Interning on a Dairy Farm***Mentor: Jeffrey Lake, Marcia Boynton****Ribbon: Learning Throughout a Lifetime**

The purpose of this presentation is to document the experiential learning and discovery from a summer's work with cattle on a Michigan dairy farm. My work entailed seven 40-hour work weeks, in which I learned about breeding, calf and dairy management processes, and veterinary care. I was able to shadow a veterinarian on a variety of large animal farm calls, including dairy and equine farms, as well as a cattle breeder as he worked to maximize genetic benefit to the dairymen. During my time on the farm, I developed a calf care protocol for daily management of the herd. I also organized the management and procurement of veterinary pharmaceuticals, as well as a standardized record-keeping system to ensure timely vaccination and administration of medication to the herd. The internship provided me with great hands-on experience in managing a large dairy farm, and in particular allowed me to better develop organizational and planning skills in an applied environment. I was also able to work across ethnic barriers to effectively communicate with a diverse agricultural workforce. These skills will be useful in my career and in developing life-long educational opportunities.

Timothy Peoples*Pedagogy of the Bible in the Liberal Arts Context: Paradigms and Perspectives***Mentor: Scott Elliot****Ribbon: Learning Throughout a Lifetime**

My approach compares representative samples of syllabi from introductory Bible courses taught at liberal arts institutions in the United States. Whenever possible, I focus on explicit statements concerning rationale and perspective in course descriptions, course objectives, and so forth. Where explicit statements are absent, I focus on implicit indications of rationale and perspective in course content, textbooks, assignments, etc. Each syllabus is then placed into one of three analytical categories according to the overarching rationale and perspective of the course. Those operating from within a "Historical Critical Paradigm" view the Bible as an historical artifact, locate meaning within the text, and teach students to understand and interpret it in relation to its original context. Courses operating from within a "Postmodern Critical Paradigm" locate meaning with the reader, emphasize experience, and teach students to appreciate the Bible as literature. Lastly, those operating from within a "Post-Secular Religious Paradigm" view the Bible, not necessarily confessionally, but no less spiritually and religiously, focusing on its morality, ethics, and theology. Identifying the dominant rationale and perspective for introductory Bible courses in the United States will contribute to conversations in the biblical field concerning what the Bible is, how it is best understood, and why.

Rebecca Kamody*Task Difficulty and Evaluation Affects Stress Levels***Mentor: Suzanne Helfer****Ribbon: Thinking Critically**

This study addresses how an individual's evaluation expectation affects his or her stress levels. Participants were given one of two psychology tests: easy or difficult. Half of the participants in each test group were given the expectation that their professor would see the results; the other half were not given this expectation. The hypothesis being tested was that those given the evaluation expectation would have higher stress levels. Self-reported stress levels were measured using Cohen's Perceived Stress Scale (PSS; Cohen, 1983). Systolic blood pressure (SBP), diastolic blood pressure (DBP), mean arterial pressure (MAP) and heart rate (HR) were used to measure physiological stress. A 2 (expectation, no expectation) x 2 (easy, difficult) x 2 (male, female) analysis of variance (ANOVA) was performed on the PSS scores, SBP, DBP, MAP, and HR. The results indicate that individuals in the expectation condition rated their perceived stress as being higher than those not given the expectation. Furthermore, individuals given the difficult test had a higher perceived stress score. A significant interaction was found, such that those given the evaluation expectation and the difficult test had the greatest perceived stress. Participants in the no expectation/hard group had the largest change in SBP responses.

Leanna Stockard*Effects of an Ego-Boost and Ego-Threat of Self-Esteem***Mentor: Suzanne Helfer****Ribbon: Thinking Critically**

All students were prescreened using the Narcissistic Personality Inventory-16. The experimenter selected the top 20 and bottom 20 percent. There were 18 females and 13 males, 15 of the 31 participants were of low narcissism and 16 were high. Participants were given a self-esteem pre-test. Then, participants were given an intelligence test. That test featured questions that most college students would not know so that the participants did not know how they performed. Then they were asked to fill out a perceived ability questionnaire to determine how well they thought they did. The experimenter told participants that they either scored "significantly higher than the average" or "significantly lower than the average" as an ego-boost or ego-threat. Participants were again given the self-esteem questionnaire. Finally, participants were asked to fill out an experimenter evaluation. There was a significant effect of condition on the change in self-esteem. For both high and low narcissists, after an ego-threat, participant's self-esteem significantly lowered. Regardless of ego-boost or ego-threat, high narcissistic individuals had higher self-esteem. Finally, high narcissistic individuals thought they did better than low narcissistic individuals on the Intelligence Test. There were no significant effects of condition or narcissism on experimenter ratings.

Janene Dusseau*The Scenic Design Process of Titus Andronicus***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

The scenic designer for any production must work and collaborate with other designers and the director to achieve a scenic environment that would relate to the concept statement. The director of Titus Andronicus chose to explore the play as a “traveling, medieval, acting troupe performing the Shakespeare tragedy Titus Andronicus”. From this concept statement, the designer must start with research, sketches, renderings, and a detailed model to illustrate what is to become scenic design. These parts, of the design process, will be presented for Ribbons of Excellence through the display of foam core boards and/or PowerPoint, including final photography.

Brent Swee*Mg-Fe geochemical data resolve vent clusters within the SFVF, Northern Arizona***Mentor: Sarah Hanson****Ribbon: Thinking Critically**

The San Francisco Volcanic Field (SFVF) is located in northern Arizona along the boundary between the Colorado Plateau and Basin and Range provinces. There are over 600 volcanic vents present in the area, yet the genetic relationship between them is poorly understood. For this reason, the potential relationships were evaluated by comparing the Mg number (molar $\text{Mg} / (\text{Mg} + \text{Fe})$) of basalt from approximately 150 basaltic ($\text{SiO}_2 > 52\%$) volcanic vents in the eastern half of the SFVF. This spatial analysis was completed by plotting the Mg numbers for each vent on geologic maps and revealed the presence of at least three vent clusters with like Mg numbers. One cluster of vents, the Sunset Crater Cluster, has high Mg numbers and lies in the south-central SFVF. The Merriam Cluster, a grouping of vents with lower Mg numbers lies to the east. A third smaller cluster, the SP Cluster, exhibits the lowest Mg numbers and occurs to the northwest of the Sunset Crater Cluster. The presence of three centers of volcanism is in contrast to earlier cursory studies, which suggested only two magmatic systems were present and suggests that volcanic activity may occur as sporadic periods of intense activity separated by periods of quiescence.

Tiffany Furniss*Construction of a Three Dimensional Topographic Map of Heritage Park: and Educational Tool for Local Elementary Students***Mentor: Craig Weatherby, Sarah Hanson****Ribbon: Developing Creativity**

The purpose of this project was to construct a three-dimensional (3-D) topographic map of the Heritage Park area in Raisin Township, Adrian, Michigan. Two 1:24,000 USGS topographic maps, the Adrian, MI and Tecumseh South quadrangles, were used as base maps. Heritage Park lies in Section 30, which straddles both maps. Foam core board and adhesive were used as the main foundation of the 3-D map. Lines of equal elevation, called contour lines, were traced at a 10 foot interval onto the tracing paper, transferred to foam core board and cut out. The layers, each representing a higher elevation, were placed successively on top of one another to create a 3-D model.

This 3-D map will be donated to the Stubnitz Environmental Education Center in Heritage Park after the Ribbons of Excellence day. The model will help elementary school students and visitors from the Adrian area to better understand topographic maps and how they represent the landscape around them. Additionally, it will be used to explain how glaciers and erosion in southern Michigan shaped the landscape we see today.

Jeffery Young*Correlation between Percent Phenocrysts versus Distance to Vent in Lava Flows from Sunset Crater, northern Arizona***Mentor: Craig Weatherby, Sarah Hanson****Ribbon: Developing Creativity**

Sunset Crater volcano is a 900 year old cinder cone, the youngest of over 600 volcanic vents in the San Francisco Volcanic Field in northern Arizona. Microscopic analysis of basalt thin sections from various locations on the Bonito Lava flow from Sunset Crater were analyzed by counting 2000 points on each slide in order to determine the percentage of early forming crystals, called Phenocrysts, which include the major basaltic minerals plagioclase, pyroxene, and olivine. A statistical analysis was employed to determine if there was any correlation between the distance that a given sample crystallized from the volcanic vent and the percentage of Phenocrysts that the sample contained. Pyroxene was not abundant, and plagioclase Phenocrysts showed no correlation with distance to the volcanic vent. However, it was shown that there is a strong correlation between the percentage of olivine Phenocrysts and distance to the volcanic vent from which they effused. This correlation indicated that as the distance to the volcanic vent increased, the percentage of olivine within the sample increased. This suggests that olivine nucleated at depth and continued to grow as the flow cooled with the more distal flows cooling slower thereby allowing the olivine crystals to grow larger.

Mary Selden*The Effect of Group Composition and Writing on Group Polarization***Mentor: Hank Cetola****Ribbon: Thinking Critically**

The purpose of this study was to investigate the effects of personality, confidence, and writing on group polarization (i.e., the tendency for individuals to report more extreme opinions after group discussion). Participants (N = 52) were selected based on their extraversion-introversion (E-I) scores on a personality questionnaire, then divided into three types of groups: all extraverts, all introverts, or mixed. Groups were then assigned to either the writing or the no writing condition, where they either listed three reasons supporting their answers or did not, respectively. They were also given a questionnaire to assess how much interpersonal control they had during group discussions.

They completed an opinion questionnaire before, during, and after group discussion. It was hypothesized that extraverts would seek greater stimulation through discussion and, therefore, their post-group confidence answers would become more extreme (polarize). Those high on interpersonal control would also polarize more, because they would change their opinions less often. Those in the writing condition would polarize more from greater commitment to their answers.

The results indicated that group composition (E-I and interpersonal control) did not significantly affect group polarization. However, there was a significant difference between those who wrote reasons and those who did not.

Heather Strong & Holly Payne*Optimal Position for Supraspinatus Strengthening and Rehabilitation***Mentor: Victor Liberi****Ribbon: Thinking Critically**

The purpose of this research is to examine the best positioning for strengthening the Supraspinatus muscle. There is much controversy over which positioning is most advantageous for the patient. Many studies have measured the activation of the Supraspinatus and surrounding muscles through various positions. The goal is to determine the ideal position that both isolates the Supraspinatus as much as possible and strengthens it without negative side effects. Research has suggested that neither empty can nor full can positions completely isolate the Supraspinatus but are equal in the amount of activation. There is also research to support strengthening in prone horizontal abduction, pendent external rotation, and prone external rotation. Ultimately, risks and benefits to each position will be evaluated and a prime position for Supraspinatus strengthening and rehabilitation will be determined.

Adrienne Haase*Copywriting an Advertising Campaign in a Changing Media World***Mentor: Linda Learman****Ribbon: Crossing Boundaries and Disciplines**

My poster display for Ribbons of Excellence demonstrates the role of copywriting and how to develop an advertising Plans Book. During my independent study work, I was able to learn from the Advertising Age book, "The Idea Writers," about the new actualities of copywriting in today's marketing and media world, as well as how the role of copywriters has changed in the business of branding and creativity. My poster presentation reflects my role as Copywriter for the AC chapter of The American Advertising Federation; the board will represent how the role of a copywriter has transformed from the confinement of writing captions and small scripts to a position of creating socially edifying marvels. For example, for my role in our AC AAF chapter's Nissan campaign for this year's competition, not only did I write a Plans Book full of copy, write commercial scripts, and help with a slogan; my role crossed over into dreaming and implementing creative ideas to generate buzz in the target market through technology of today, and even tomorrow. This opportunity has allowed me to work with Dr. Learman to meet my objectives of developing additional skills, experience, and expertise in the discipline of copywriting.

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The Flip Side of the COIN: A Ground-Level View of Counterinsurgency	Turner, Timothy	3	4	9:00 - 9:20
Examining the Success of Michigan Educational Standards in Lenawee County	Konieczki, Peter	6	7	9:00 - 9:20
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Performing Controversy: The Federal Theatre Project Living Newspapers	Sampson, Cambray	2	3	9:25-9:45
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