



Adrian College

Welcome to our annual Ribbons of Excellence Day Program.

I am pleased to welcome you to our fifth 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 2013 Ribbons of Excellence Day Program!

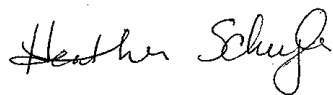
The history of the Ribbons of Excellence Program resides in the Cane Ceremony tradition of tying a ribbon with the names of graduates to the Shepherd's Crook. This tradition has been carried on since 1887; in 2007 the academic community at Adrian College developed its academic vision of the Ribbons of 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 2013 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



Table of Contents

Plan Your Day

Template to schedule your day.....	1
------------------------------------	---

Hispanics of Lenawee County

Johnson, Amy	2
--------------------	---

Wuthering Heights and Modern-Day Slavery: How a Nineteenth-Century Novel Relates to the World We Live in Today

Hannigan, Hilary.....	2
-----------------------	---

Spatial Distribution of Invasive Shrubs in a South-East Michigan Forest

Bisco, E., Barron A., Quinlan A.	3
---------------------------------------	---

From Motive to Performance, Connecting the Dots

Martuch, Timothy	4
------------------------	---

Efficiency of Supination and Pronation of the Foot in Long Distance Running

Trevisan, David.....	4
----------------------	---

Analysis of Functional Traits of invasive shrubs in a Michigan forest

Barron, Andrew.....	5
---------------------	---

Discerning the Ethical Obligations of a Non-Fiction Writer to their Subject(s)

Andrews, Delaney	6
------------------------	---

Implementing Child Sex Trafficking Protocol

Cutler, Emily.....	7
--------------------	---

Scheduling with Linear Programing II

Bryan, Sondra	7
---------------------	---

Frequency of Toxic Plants in Perspective Pasture

Wilt, Kylie.....	8
------------------	---

The Humanity of Nature: Wooden Sculptures

Karapas, Amara	8
----------------------	---

Composing in Cusco

Jackson, Derek.....	9
---------------------	---

American Advertising Federation Adrian College Chapter- Glidden Gets You Going

Stiriz, C., Brannan, G., Muncey, S, VanZyl, M., Pike, B.	10
---	----

The Effects of Enemy Action on U.S. Public Opinion Regarding War: A Quantitative Approach

Williams, Timothy.....	10
------------------------	----

Table of Contents

<i>The Ignored Threat: The Relationship between Declining Public Health Funding and Increasing Vulnerability of Emergency Preparedness Capabilities</i>	
Vandekerkhove, Megan	11
<i>JourNOWism</i>	
Andrews, D., Oake, T., Simpson, C., Neal, M., Berky, I.	12
<i>Compassion in Jack London's The Sea Wolf</i>	
O'Connell, Alicia	12
<i>Breaking the Fourth Wall: A Postmodernist Look at Parody, References, and Convergence in Anime, Manga, and Video Games</i>	
Reeder, Jordan	13
<i>"If she is attractive I can't play with her; if she is not, I won't": The Ethical Battle of Women in Symphony Orchestras</i>	
Nietupski, Sarah	14
<i>The Future Viability of Musical Control in the People's Republic of China: Capitalism, Technology, and the Civil Society</i>	
Williams, Timothy	15
<i>Energy Consumption Between A Re-Purposed And A New LEED Commercial Structure</i>	
Labick, Kat	16
<i>Pushing the Oxcart: What Defines the Oxcart Literary Magazine?</i>	
Noelke, A., Wilson, Z., Newblom, H.	17
<i>The Future of Memory Formation</i>	
Maxson, A., Eisinger, J.	17
<i>Patterns of Conceptual Metaphor and Framing in the Debate over Abortion Coverage in the U.S. Healthcare Reform</i>	
Vandekerkhove, Megan	18
<i>Project Development: Science Activities at Michigan International Speedway, a Pre-Teacher's Learning Experience</i>	
Quinlan, Aubrey	19
<i>Red Bull Stratos: An Extension of Classical Mechanics</i>	
Plath, L., Boehringer, S., Stefanski, M., Diven, B.	20
<i>Leaf Margins and Climate: An Idea to Sink Your Teeth Into?</i>	
Ferenczi, Jordenne	20

Table of Contents

<i>Ancient Greeks' Heroic Outlook and Overcoming the Resistance to Kill</i>	
Wallace, Austin	21
<i>The Graves Farm</i>	
Woods, Jammie	22
<i>Single Mother Household and Evolving Masculinity's Relation to Educational Success</i>	
Miller, Andrew	23
<i>Development of a Device which increases the life time of a lacrosse ball</i>	
Hudzinski, John	24
<i>The Night Circus: The Narrative Antidote</i>	
Toland, Brenna	24
<i>Soft Skills: Their Importance and Effect on Women in the Workplace</i>	
Davis, A., Stiriz, C.	25
<i>The creation of an anatomical atlas using <i>Xenopus leavis</i></i>	
Campbell M., Pistilli A., Gorney J., Vandekerkhove, M., Mykolaitis H., Matlz, E., Maxson, A.	25
<i>[Insert Title Here]</i>	
Myers, Alexandra	26
<i>Women in Higher Education</i>	
Kuhr, Brittanie	27
<i>Wham, Bam, Thank You Ma'am. Leaving it all on Stage.</i>	
Hudgins, Ian	27
<i>DWP-Driving while Photographing</i>	
Sager, Julie	28
<i>Painting Faces</i>	
Sires, Candice	28
<i>REcollection: Memories collected throughout a lifetime</i>	
Kynion, Shannon	29
<i>Through my Eyes</i>	
Higgins, Colleen	30

Table of Contents

Truth About Love Through Art

Butler, Christina 30

LINE

Schaufele, Alexandra 31

Deceiving Artwork Revealing The Truth to Happiness

Post, Janelle 31

Effects of Overconfidence and Feedback Style on Accuracy of Answered Mock Crime Questions

Vernier, Ashley 33

Stage Management of Anatomy of Gray

Belman, Jacqueline 33

A Summer of Forestry Exploration: Interning at the Huron Manistee National Forest

DeVore, Kimberly 34

Evaluating Hydrocarbon Reserves

Courtney, Shawn 34

The Summer of a Lifetime: Interning at a Veterinary Hospital

Wood, Christian 35

Lighting Design for Anatomy of Gray

Clark, Jeffrey 35

The Effects of Cyber Exclusion on Prosocial Behavior

Woolsey, Melissa 36

Education Beyond the Books: My African Experience

Horstman, Alexis 36

Cross-Species Grafting of Fruit Trees

Bisco, Erin 37

Can affective expectations change the way you feel after exercising?

Heaven, J., Hamel, L., Vernier, A., Woolsey, M. 37

The Placebo Response and its Effect on Performance on a Manual Dexterity Task

Barnard, Mitchell 38

Adrian College Campus

1 | Page

Session 1

Rush 124

9:00-9:20

Amy Johnson*Hispanics of Lenawee County***Mentor: Deborah Field****Ribbon: Caring For Humanity and the World**

I believe my Ribbons of Excellence Presentation on the Hispanics of Lenawee County should be tied with the ribbon, Caring for Humanity and The World. My research describes the settlement history, racial issues, and discrimination of Hispanics within Lenawee. It seeks to introduce organizations that represent Hispanics and describes the beneficial role Hispanics have in our society. I hope to bring Hispanic awareness to the community so that it may realize Lenawee's high Hispanic population and the important roles of those Hispanics. I believe my presentation will bring into light the fact that Lenawee County would not be the successful environment it is today without its diverse cultural contributions. I hope my presentation will bring a new understanding of Lenawee's Hispanic community and I hope it will encourage others to care for people with different racial backgrounds, because each racial group of America has in some way contributed to create what our country is today. I hope that the Lenawee community will more heavily strive to fight for a fair representation of its Hispanic population and give gratitude to Hispanic contributions from the early 1900s to today.

9:25-9:45

Hilary Hannigan*Wuthering Heights and Modern-Day Slavery: How a Nineteenth-Century Novel Relates to the World We Live in Today***Mentor: Bethany Shepherd****Ribbon: Caring For Humanity and the World**

For this discussion, I will look at the way narratives have the ability to address moral, social, economic, and other issues that existed in the world that the narrative was composed in, and the world we live in today. I will specifically look at the Nineteenth-century novel *Wuthering Heights* and discuss how Emily Bronte used the characterization of Heathcliff to address issues of slavery. Of particular interest is the way the reader is encouraged to sympathize with, and have empathy for, the child Heathcliff, but is then encouraged to disassociate with the adult Heathcliff. His childhood is full of inhumanity, pain, and injustice. However, Bronte does not end the novel with a happy ending, as many might hope, but instead allows Heathcliff to become a monstrous adult who is obsessed with revenge. It is this technique, of encouraging the reader to feel connected with Heathcliff, but then making him to be an unacceptable character, that makes the novel so powerful and provides a propelling account of the issue of slavery. Furthermore, it is Heathcliff's engagement with consumerism and other ideas which persist in the capitalist culture we live in today, that allow him to achieve such cruelty to other characters. Because of this, the narrative not only brings attention to the fact that slavery existed when the novel was written, but asks the reader to become engaged with the issue in modern times as well.

My project relates to the ribbon "Caring for Humanity and the World" as I will discuss how modern slavery is driven by the consumerist culture we live in today and how we might take part in ending it. I will specifically look at how Emily Bronte explored a similar dynamic through Heathcliff's behavior in *Wuthering Heights* and, furthermore, what she might say about our culture through the narrative.

Session 1

Rush 124

9:50-10:10

Erin Bisco, Andrew Barron, Aubrey Quinlan*Spatial Distribution of Invasive Shrubs in a South-East Michigan Forest***Mentor: Jeffrey Lake****Ribbon: Caring For Humanity and the World**

Invasive plant species are destructive to the environment as they displace native species and have the potential to disturb habitat for native fauna, as well as disrupt fundamental ecosystem processes. Within the forests of the Great Lakes region, the encroachment of invasive shrubs originally planted for erosion control into the forest understory is pervasive. At present there are no control measures in place on a wide-spread basis. The focus of this study is to catalog, tag and monitor the current position and predict the future extent of invasive spread throughout the MIS-Graves Campground forest. This research involved the identification, mapping, tagging and measuring of all woody plants in 0.9 hectares of forest in 20x20 quadrat sections. The data was used to plot the position of the vegetation within each quadrat, and relate position to light environment and density of growth. Spatial statistics were used to analyze this data. This is an on-going project. Because of severe environmental impact of invasive species, this presentation best fits the Ribbon of Caring for Humanity and the World.

Due to the severe environmental impact of invasive species, this presentation best fits the Ribbon of Caring for Humanity and the World.

Session 2

Hickman Board Room

9:00-9:20

Timothy Martuch*From Motive to Performance, Connecting the Dots***Mentor: Peter Ford****Ribbon: Developing Creativity**

This presentation will describe many of the anticipated and unanticipated musical and extra-musical tasks and hurdles that led up to successful performances of original music my December the 2nd Senior Recital. That Capstone event was unusual in that it was the first student music composition recital in at least the last decade of the Adrian College Music Department, underlining the importance of our "Developing Creativity" Ribbon of Excellence. In addition to a reflective oral description of events, one aspect of this Ribbons of Excellence presentation employs multimedia to visually and aurally illustrate my music composition process, including examples of early drafts of compositions and arrangements, showing how they were edited and expanded to be performed by the musicians who took part in my recital. Also, I will discuss and how problems were addressed, resolved in the process, and share lessons learned.

9:25-9:45

David Trevisan*Efficiency of Supination and Pronation of the Foot in Long Distance Running***Mentor: Katherine Griffes****Ribbon: Thinking Critically**

Literature review and discussion of the differences, advantages, and structures involved regarding supinated and pronated foot types with a following hypothesis and research proposal. Supinated foot types are hypothesized to give runners an advantage over runners with a normal or pronated foot type based on the evidence presented.

This presentation relates to the Ribbon "thinking critically" by looking at the foot in a new way. Based on a review of existing literature, this proposal for further investigation uses evidence to argue a new hypothesis on how the foot functions in running. After reflecting upon natural tendencies of the foot, this project was presented as a senior research proposal. By thinking critically, looking at existing research and putting it into a new light, this project has represented Adrian College and the Exercise Science department during a presentation at the Michigan American College of Sports Medicine Conference in Gaylord, Michigan.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 2

Hickman Board Room

9:50-10:10

Andrew Barron*Analysis of Functional Traits of invasive shrubs in a Michigan forest***Mentor: Jeffrey Lake****Ribbon: Caring For Humanity and the World**

The analysis of the functional traits of plants can give a better understanding of the role that a species plays in its environment. Traits such as specific leaf area, leaf laminar area, and leaf nitrogen content provide insight on how species use their light environment. In the context of invasive species, these traits can be used to test the mechanisms of invasions and process by which communities are assembled for native and non-native species. This project asks if multiple invasive species share similar traits to one another that are fundamentally different from those of the native community, or if they each utilize unique niches. The research uses specimens collected at Michigan International Speedway in the summer of 2012. A combination of 16 native and 6 invasive woody plant species were found at the site. Specimens were gathered from a series of 20mx20m plots set up at Graves Campground. The specimens were analyzed using WinFolia to gather specific leaf area and leaf laminar area. Statistical analyses were performed in R to determine the role of functional traits in species invasion.

The negative effect invasive species have on native plant populations makes this work fit well with the “Caring for Humanity and the World” ribbon.

Session 3

Knight Auditorium

9:00-9:20

Delaney Andrews*Discerning the Ethical Obligations of a Non-Fiction Writer to their Subject(s)***Mentor: Linda Learman****Ribbon: Learning Throughout a Lifetime**

Truth, or the lack of it, has long been a major topic of concern in the field of non-fiction writing. In recent years, writers have been figuratively crucified for crimes of fabricating entire events, or for even the smallest discrepancy of details from fact, and even for "self-plagiarizing." To some degree, what is lost in the midst of the readers' outrage regarding matters of truth are the lives and feelings of those whose stories have been told, whether truthfully or not. When a scandal breaks the focus typically lies on the writer; however very rarely does it extend to those who also have an essential role in the publication: the subjects of the piece. Effects of a writer's representations or, in more menacing cases, Misrepresentations of facts concerning their subjects range from hurt feelings to suicide, because the writing and the response to the writing can impact both the readerships' view of the subject and even the entirety of the subject's life. These repercussions threaten any person that appears in a non-fiction piece, such as characters in an autobiography or memoir. This presentation aims to express the effects on subjects when a writer involves them in their work of non-fiction. The goal of this presentation is to analyze the appropriate ethical obligations a writer has to those whose stories they tell.

I chose the ribbon "Caring for Humanity and the World" because my topic deals specifically with ethics, and I believe that the progress I make with my research will make commentary on how the craft of nonfiction writing can benefit humanity if certain obligations to subjects are considered. I think this is very important considering recent scandals involving certain nonfiction writers who have when said to harm the lives of their subjects.

Session 3

Knight Auditorium

9:25-9:45

Emily Cutler*Implementing Child Sex Trafficking Protocol***Mentor: Susan Nichols****Ribbon: Caring for Humanity and the World**

Many thought the era of slavery was over, but new information has illuminated the reality of human trafficking. Precise data is difficult to obtain, but according to the Department of Justice, an estimated 27 million individuals are held in slavery around the world today; 14,500-17,500 of these individuals are trafficked into our own country. The Ribbon of Excellence, "Caring for Humanity and The World," demands we take action against this global issue. As President Obama stated last year: "It ought to concern every person, because it is a debasement of our common humanity. It ought to concern every community, because it tears at our social fabric. It ought to concern every business, because it distorts markets. It ought to concern every nation, because it endangers public health and fuels violence and organized crime. I'm talking about the injustice, the outrage, of human trafficking, which must be called by its true name -- modern slavery" (Obama, 2012). Michigan is no exception from this crime. In June 2012, Michigan's Coalition Against Human trafficking released a "Child Sex Trafficking Protocol" as a means to establish statewide procedure concerning sex trafficking and unify approaches taken by various agencies. This protocol has yet to be implemented. My research examines this protocol and determines best practices to be implemented at the local level. Collaboration offers our greatest opportunity to eradicate human trafficking and demonstrate our love for humanity and the world.

9:50-10:10

Sondra Bryan*Scheduling with Linear Programming II***Mentor: Alia Khurram****Ribbon: Crossing Boundaries and Disciplines**

This is a continued study from the Ribbons of Excellence 2012: Scheduling with Linear programming. Last year we worked on building the schedule of the Math department with 6 faculty and five constraints. This year I would like to explore the problem of building a weekly schedule for 18 employees of a summer camp with more constraints.

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 common computer program, EXCEL. Once this problem is solved the model can be generalized to cut the time it takes to create schedules for any organization.

I believe that Scheduling with Linear Programming is related to Learning Throughout a Lifetime. In this project, I am exploring the many ways to apply linear programming not only to class schedules that are currently relevant, but to other scheduling processes that occur later in life. As this scheduling process becomes more and more general, this project has the potential to be applied in many organizations, companies, and other places where scheduling times occurs.

Session 4

Valade 202

9:00-9:20

Kylie Witt*Frequency of Toxic Plants in Perspective Pasture***Mentor: Jeffery Lake****Ribbon: Caring for Humanity and the World**

A number of plants found in southern Michigan are toxic to many livestock species. Consumption of these plants can lead to reduced productivity and market value or even death of the animals. This study sought to quantify the frequency of species toxic to lamb, cattle and horses in prospective pasture land at three sites in southeast Michigan. In each of the three sites, two transects with six pseudo randomly located quadrats were assessed for percent cover of each species present. Toxicity was determined using a detailed library and internet search of agricultural journals and academic websites. Data was analyzed using ANOVAs and Hierarchical ANOVAs in the statistical package R. Of the three sites all held toxic species, special aggregation was found yet this may have been found due to the sampling technique applied. Because of the implications of agriculture for human well-being this work is classified under the ribbon caring for humanity and the world.

9:25-9:45

Amara Karapas*The Humanity of Nature: Wooden Sculptures***Mentor: Pi Benio****Ribbon: Developing Creativity**

I make art as an attempt to define myself, discovering identity through a visual means. The work investigates boundaries and concerns the range of possibilities that wood as a medium with mixed media can possess. My art has scientific themes, unique combinations of materials and innovation in relationship to perceptions about conventional uses of wood. Another facet of this body of work is the use of traditional elements, concrete principles, forms and processes. Contrasted with pushing the traditional perceptions of the medium through the use of human-produced technologically, advanced materials and various techniques to portray my visions.

Overall, my artwork investigates how far my medium, wood, can go. I am developing creativity through my use of unique and challenging sculptural techniques. The concept of pushing boundaries, or straying from the familiar, is a fundamental portion of this Ribbon of Excellence. The hard work put into developing this art series cannot be seen not only in my art practices, but in the way that I live my own life. There is a constant battle to make an effort towards capturing the evolution of my personal and artistic innovations or breakthroughs, while using traditional processes successfully. This battle is precisely why the Ribbons of Excellence, Developing Creativity, fits my presentation perfectly.

Session 4

Valade 202

9:50-10:10

Derek Jackson
*Composing in Cusco***Mentor: Robin Bott****Ribbon: Crossing Boundaries and Disciplines**

During my study abroad experience this last fall in Cusco, Peru, I was given an assignment to write a short story featuring my language skills acquired in Advanced Spanish Language. For this assignment, I used my own personal experiences in Cusco to format a storyline. The purpose of this presentation is to showcase the final work of the written storybook. Incorporating all three of my dissertations (Spanish, English Literature, & Teacher Education Certification), my presentation will explore the writing process I used to write the book including research components. I then will discuss the educational merits of the book in regards to children's literature standards. The purpose for this presentation is to inform the Adrian College community about my experiences with a book writing process in a language other than my native tongue. It is also to discuss some of my study abroad understandings that I used within the plot of the children's story. The ribbons that I will focus on throughout the presentation are caring for humanity and the world and crossing boundaries and disciplines.

Session 5

Jones 204

9:00-9:20

**Chloe Stiriz, Greg Brannan,
Sarah Muncey, Megan VanZyl, Brian Pike**

*American Advertising Federation Adrian College Chapter- Glidden Gets You
Going*

Mentor: Patrick Quinlan**Ribbon: Developing Creativity**

Advertising is a form of marketing communications, used to persuade consumers; it plays a huge role in everyday life. Not only does advertising reach so many individuals, but also provides a large number of jobs. The American Advertising Federation is a nation-wide organization that provides college students the opportunity to work together to create an advertising campaign for a well-known company and present the campaign in front of various executives, competing against other universities. This gives college students interested in the advertising industry actual hands on experience to prepare for the next level. Adrian College has had a chapter of AAF for many years, and this year is no different. As part of the 2013 case, the Adrian College chapter must develop a campaign for the Glidden paint. This presentation will consist of the chapter's presenting team demonstrating their Glidden campaign.

In the Glidden Gets You Going presentation, developing creativity will be the Ribbon of focus. Not only does the advertising campaign created incorporate creativity in the traditional "artistic" sense of the world, but also that of creating and synthesizing new ideas. This presentation requires actual artwork and media to be created, and out of the box ideas to be developed in order to produce a 360 degree advertising campaign for Glidden paint.

9:25-9:45

Timothy Verns Williams II

*The Effects of Enemy Action on U.S. Public Opinion Regarding War: A
Quantitative Approach*

Mentor: Philip Howe**Ribbon: Thinking Critically**

The formation of public opinion within the United States concerning military actions is commonly held to be the product of a complex, multivariate model. Despite extensive research, disagreement persists over the relative weight of these myriad forces, and the assessment of potential variables is likely incomplete. The nature of the current wars in Afghanistan and Iraq allows for a more precise examination of the impact of enemy action than has previously been possible. Using data pertaining to aggregate rates of terrorist incidents in both countries, insurgent enemy action is assessed in a quantitative manner, and enemy action is also examined in terms of media coverage. The correlations produced between incident rates, media reports, and public opinion suggest that perceived success of the operation in question, as well as media coverage of that operation, may not affect public opinion significantly as previously argued. In broader terms, the use of terrorist incident rates to measure enemy action in cases of insurgency has the potential for further development, as tensions in the Middle-East continue, as does the United States' interest in the region. It is likely that any future conflict in the region would consist mainly of insurgent tactics, and the model presented herein may then be applied to additional cases.

Session 5

Jones 204

9:50-10:10

Megan Vandekerkhove*The Ignored Threat: The Relationship between Declining Public Health Funding and Increasing Vulnerability of Emergency Preparedness Capabilities***Mentor: James Hanley****Ribbon: Caring for Humanity and the World**

Today's world is much more interconnected than ever before and that has allowed for great progress to be achieved. However, it has also created some significant problems, as now it is the easiest that it has ever been for disease to rapidly spread. The first, and sometimes only, line of defense is the public health sector, which handles all public health threats, such as the outbreak of disease. Working as an intern in the Lenawee County Health Department's Emergency Preparedness Division, I witnessed first-hand the procedures and steps taken to plan for and protect against all manner of potential crises, especially infectious outbreaks. Yet more importantly, I also observed the decreasing levels of funding received by the Health Department, a decrease that is not just indicative of Lenawee County. Further research revealed that nationwide public health funding is being slashed to the bone. This decline in funding coupled with increases in outbreaks of disease, has created a potentially dangerous situation. This presentation will evaluate these spending cuts and why they are occurring, as well as demonstrate how they are affecting the public health sector's ability to react to outbreaks.

The ribbon that I believe this presentation connects to is Caring for the Humanity and the World. This ribbon involves making socially responsible decisions as well as providing a service to local and global communities. My project exemplifies each of these tenets. Understanding the gap between funding and needs that exists in emergency preparedness, is socially responsible because it is impossible to address a problem until it is fully understood. Recognizing this gap and hopefully remedying it, also provides a service to the community as it addresses the need that all citizens have to be fully prepared in the event of an emergency. The goal of this project is to address this societal failure with the hopes that it will one day be understood well enough to be addressed.

Session 6

Rush 124

10:25 – 10:45

**Delaney Andrews, Taylor Oake,
Claire Simpson, Michael Neal, Isaac Berky**
JourNOWism

Mentor: Renee Collins**Ribbon: Thinking Critically**

In this panel discussion, five students from Fall 2012's Focus on Journalism class present their take on what journalism is today. Individual research from the class focuses on the impact of social media, changing ethics, and developing technology on journalism in modern times. Starting in the past, the history of journalism is explored; how did we get from typing on the Underwood 5 to Tweeting on tablets? Then the present is discussed; such as how the printing press was the original tool for reporting but now that scope has broadened to include even websites like Pinterest. Finally, the possibilities for the future are speculated; including how the all-important facts will be affected by tools such as Facebook. This interactive group session will result in a multi-dimensional portrait of what the class has come to call "JourNOWism," the practice of reporting in the 21st century.

Our group chose the ribbon "Critical Thinking" because since our project is the culmination of research by five different students, we decided to aim to form a cohesive image of modern journalism. Also, we had to think critically to combine our individual topics into a flowing, single project.

10:50 – 11:10

Alicia O'Connell
Compassion in Jack London's The Sea Wolf

Mentor: Bethany Shepherd**Ribbon: Caring for Humanity and the World**

Jack London's *The Sea-Wolf* presents the characters Wolf Larsen and Humphrey Van Weyden in order to reject the assumption that being physically or economically the "fittest" determines one's survival. Throughout the novel Jack London advocates, similar to Thomas Huxley, that an ethics of compassion is the most effective way for an individual to survive. The principal of compassion leads to concepts such as cooperation and community which are highly regarded in society. Since Jack London was writing in a time when Darwin's *On the Origin of Species* was deeply controversial, *The Sea-Wolf* is useful in exploring some of the controversy and possible explanations that fit the ideas of compassion and altruism into Darwin's theory of evolution. Like Thomas Huxley who believed that the "struggle for existence" would be different for humans compared to other wild life, London wanted to confirm that compassion was important to human survival. By rejecting the philosophy of Nietzsche who devalued life and society's highly regarded values, London proves that compassion is not only a moral obligation but assists in one's survival. *The Sea-Wolf* is an epic sea tale that corroborates the idea that one's self-interest and compassion towards others can coexist. *The Sea-Wolf* is a substantial work of literature because it validates the usefulness of compassion to humanity.

Session 6

Rush 124

11:15 – 11:45

Jordan Reeder*Breaking the Fourth Wall: A Postmodernist Look at Parody, References, and Convergence in Anime, Manga, and Video Games***Mentor: Bryan Bott****Ribbon: Crossing Boundaries and Disciplines**

What is parody and why is it so important in modern culture? In American culture, you can look at television shows such as Family Guy, the Simpsons, and The Colbert Report to truly get an idea of what parody is and how important it is in understanding the base material being parodied. Parody is “a literary or artistic work that imitates the characteristic style of an author or a work for comic effect or ridicule” (American Heritage Dictionary). While parody can be used for simply comedic purposes, a good parody is used to comment in some way on the base material and bring certain aspects of it to light that might have gone unnoticed or ignored. In this paper, I will be using the primary mediums of parody in America, television and movies, as a stepping stone for an analysis of the primary mediums of parody in Japan, which are anime, manga, and video games. Parody in Japan is a subject that has been mainly ignored by pop culture scholars in both America and Japan, and would serve as an excellent method to look at similarities between American and Japanese pop culture. I will be arguing that Japanese methods of parody are quite similar to American methods, meaning that both types of parodies exist, though Japanese parodies happen more frequently and are in general more sophisticated than their American counterparts.

Session 7

Hickman Board Room

10:25-10:45

Sarah Nietupski*"If she is attractive I can't play with her; if she is not, I won't": The Ethical Battle of Women in Symphony Orchestras***Mentor: Elizabeth Major****Ribbon: Thinking Critically**

For many years, women have struggled for representation within symphony orchestras of the United States and Europe. Before the addition of a screen, which allowed for completely blind auditions, women were virtually nonexistent on the stage. Today, more women are able to find their way into symphony orchestras, but the numbers are still surprisingly low. Did the addition of the screen increase the number of women allowed into an orchestra? Does the quality of an orchestra increase with the inclusion of a screen? This presentation will examine the history of women in orchestras, compare their orchestral involvement in Europe and the United States, present statistics on the overall employment in professional orchestras, and analyze the ethics of blind auditions. Incorporating the Ribbon, Thinking Critically, this presentation will explore gender equality in professional symphony orchestras. Facts regarding gender and orchestra employment and advancement will be shared and participants will be encouraged to think critically about the issues surrounding the topic including: recruitment into the profession, audition procedures, and traditional gender roles in orchestras.

Session 7

Hickman Board Room

10:50-11:10

Timothy Vern Williams II*The Future Viability of Musical Control in the People's Republic of China:
Capitalism, Technology, and the Civil Society***Mentor: Michael McGrath****Ribbon: Crossing Boundaries and Disciplines**

After the establishment of the People's Republic of China in 1949, the Chinese government sought to acquire and maintain authority through the control of political and cultural aspects of Chinese society. This cultural control extended to music, which the PRC dramatically reshaped into a tool for the delivery of nationalist and communist propaganda. In doing so, the government also created a new genre of national music, drawing on a variety of traditions and techniques in the pursuit of a new musical tradition that was both scientific and proletarian in nature. However, in recent years, the governmental control of music, which was once nearly absolute, has become significantly weakened, due to the impact of economic openness coupled with advances in communications technology. An analysis of these factors, as well as the broader struggle for free speech within China, suggests an incompatibility between China's new economic policy and continued musical control. This incompatibility is made more severe by the increasing impossibility of controlling communication, a factor which has been examined mostly through the lens of its political rather than cultural effects. Combined with the relatively liberal nature of music education in China, it seems likely that these forces will continue to erode the government's hold over musical expression and consumption, and may in time render any such control impossible. This project spans three fields of study in its final form, and makes use of techniques from the music, political science, and history disciplines to create a dynamic analysis of the current state of music in China as a social, political, and cultural phenomenon. Chinese music from the past and present is discussed in terms of the ideological messages it communicates both through the music itself and connected social constructs. The history of musical control in China—its severity, preferences, and aims—is also investigated. Lastly, I draw upon both the history and political science disciplines to render an opinion concerning the present and future prospects for the success of musical control on the part of the Chinese state.

Session 7

Hickman Board Room

11:15 – 11:45

Kat Labick*Energy Consumption Between A Re-Purposed And A New LEED Commercial Structure***Mentor: Marilyn Whitney****Ribbon: Caring For Humanity and the World**

As the environmental movement gains speed, there is a rising consumer awareness of business and corporate social responsibility. Sustainability in the built environment is the next step for environmentalists to conserve energy and water consumption as well as reduce toxic emissions. Recently, the saying “the most sustainable building is the one that is already built” has grown in popularity. Yet very little research has been conducted to confirm this supposition. My work in progress is on comparing energy consumption between two LEED certified commercial buildings, a new construction and an existing building, to see if there is a significant difference. Existing buildings require upgrading to current code systems; my research takes place after completion of this process. This presentation will discuss the literature review, challenges of finding two comparable projects, and in which direction my research is heading.

Caring for Humanity and The World, includes making responsible decisions for our global community. The current environmental movement expresses the pressing need to conserve energy to help ensure the future our natural environment. My research compares LEED certified commercial buildings which use less energy than a similar structure built without the environment in mind. Both new construction and re-purposed structures can become LEED certified. Therefore, the knowledge on which type of building consumes the least energy will help professionals make socially responsible decisions about which kind of building to design.

Session 8

Knight Auditorium

10:25-10:45 **Alex Noelke, Zachary Wilson, Heather Newblom**
Pushing the Oxcart: What Defines the Oxcart Literary Magazine?

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

Student editors face down a second year of creative writing and artistic challenges across multiple disciplines in order to create a new-and-improved creative arts magazine. Struggling with the constraints of a specified budget and fiscal deadline, the constant tug-of-war between art and writing emphasis inside the magazine's pages, and holding to traditional ideals while trying to envision and create new appeals and formats encompass the resistance met and overcome by the English and Artistic staff of the Oxcart. This panel, consisting of two English editors and one Graphic Design Artist, will discuss the trials in defining and discovering the identity of the Oxcart Magazine. Within the conversation of editorial ethics and triumph over challenges brought to the editorial staff, the panel will discuss the differences between the 2012 and 2013 editions of the Oxcart in terms of definition and identity, which will provide grounds for launching the project forward into new designs and trends for future productions.

The "developing creativity" ribbon will be incorporated in the presentation through the presentation of past, present, and future pages of oxcart issues. In other words, either a past oxcart issue, the current oxcart issue, or featured pages from the new oxcart issue that is currently in production will be placed in front of every chair in the room to enable every audience member to see the progress of a magazine that is struggling to find its true identity. This way audience members can also trade amongst themselves to see every identity the oxcart has assumed thus far in its historical struggles to be an influential creative force in the Adrian College community.

10:50-11:10 **Alexandria Maxson, Jennifer Eisinger**
The Future of Memory Formation

Mentor: Marti Morales-Ensign**Ribbon: Caring for Humanity and the World**

Memories are made and retrieved countless times every day. The body responds to memories in different ways--one being the increase and decrease of glucose levels in the blood. Previous studies have well established that rises and falls of blood glucose are respectively implicated in the enhancement and decrease in memory and cognition (Meisser and White, 1984; Hall et al. 1989; and Benton et al., 1994). What is less known is that there is a relying synergy between memory formations from emotionally arousing stimuli (e.g. pictures, words) which in itself causes changes in blood glucose levels. Hence, the associated cognitive and memory networks may rise or lower glucose levels to cause a feedback whereupon it can modulate itself- be it for better or worse (more glucose for better memories ;less glucose for decreased memories). In the work presented here, we examine possible methods to examine such relationships. Our research will be based upon some methods that were performed in a 2004 study by Flint. Overall, such work and knowledge is important for further implications of enhancing and keeping memory formations in such disease states like Alzheimer's Disease and other memory disorder situations.

Session 8

Knight Auditorium

11:15-11:45

Megan Vandekerkhove, Lauren Rehe*Patterns of Conceptual Metaphor and Framing in the Debate over Abortion Coverage in the U.S. Healthcare Reform***Mentor: Seth Knox****Ribbon: Thinking Critically**

Metaphor is everywhere and necessary for communication and comprehension across disciplines and fields. It is an essential cognitive tool that provides coherent structure to abstract and theoretical concepts. Because metaphorical operations support so much of human cognition, the manipulation of metaphor in argument could have considerable persuasive effects. This research project began by analyzing a newspaper corpus of political opinion columns on proposed changes to the US health care system in order to identify recurrent conceptual metaphors applied in persuasive discourse. It was further refined to the examination of metaphorical structures used to debate the inclusion of abortion coverage in health care. The current stage of the project is the development of experimental protocols to test empirically the persuasive effects of the ARGUMENT is WAR metaphor and the metaphoric application of an assault frame in the context of the abortion coverage debate. This presentation will provide a summary of findings to date as well as current and future research directions. Practical applications of the research findings will also be discussed.

The ribbons that I feel that this presentation is most strongly tied to are: "Thinking Critically" and "Crossing Boundaries and Disciplines". This project involves the ribbon "Thinking Critically" because working on this project meant creating a research design and deciding from a corpus of literature what was a relevant and feasible area of this topic to pursue. It was also necessary to think critically to develop a testable hypothesis that can hopefully be moved into an experimental phase.

This project also ties to the ribbon "Crossing Boundaries and Disciplines" because to understand not only cognitive linguistics, but especially this topic, it is necessary to possess knowledge in many different fields, including, but not limited to: political science, economics, language, neuroscience, gesture and history. To pursue this project effectively not only did I have to draw on knowledge from both of my degrees (Political Science and Biology) but I also had to read extensive literature in gesture and linguistics, as well as pulling on my working knowledge of history, especially the US history.

Session 9

Valade 202

10:25-10:45

Aubrey Quinlan

Project Development: Science Activities at Michigan International Speedway, a Pre-Teacher's Learning Experience

Mentor: Penny Cobau-Smith**Ribbon: Learning Throughout a Lifetime**

In May 2012, a project began at the Michigan International Speedway to develop middle school lessons and activities that took advantage of the Graves Campsite, the track, and the Michigan Room. Throughout the summer I worked on developing lesson plans from scratch with an empty slate, which included water quality testing, a guided trail walk, invasive species unit, and an animal explore unit which utilized native and nonnative fauna. These lessons and activities were all created while still being a student myself, and it came with the need to be creative and adaptable to all situations. The project also created a greater sense of what goes into lesson planning that will be used in the future career of teaching. These lesson plans are now being utilized in a partnership with MIS for school fieldtrips with grades from elementary and secondary schools. Both the presenter and the students taught will use this knowledge throughout a lifetime. The presenter will continue to learn how to develop lesson plans out of essentially nothing. The students will learn to apply critical thinking skills to what would have been ordinary situations before.

Session 9

Valade 202

10:50-11:10

**Logan Plath, Stephanie Boehringer,
Mitch Stefanski, Brian Diven***Red Bull Stratos: An Extension of Classical Mechanics***Mentor: Greg Thompson****Ribbon: Thinking Critically**

As an extension of a classical mechanics course, we have developed a computer simulation to model the most recent descent of skydiver Felix Baumgartner. On October 14th, 2012 Baumgartner jumped from roughly 128,000 feet above the Earth's surface, well into the stratosphere, as part of the Red Bull™ Stratos project. In the presented simulation, an open source software platform using Java programming language is utilized to visually model Baumgartner's leap. The simulation successfully tracks Baumgartner's descent in multiple dimensions. Speed measurements are in agreement with reported values from scientists and engineers directly involved with the project. The simulation highlights principles from classical mechanics and atmospheric dynamics. The complexity of this problem arises when considering the multivariable nature of the physical situation. With the aid of the software platform, the physics behind the Red Bull Stratos program can be revealed. Our presentation seeks to highlight the ribbon of "Thinking Critically". During preliminary work with this project, our group had success in replicating results for the skydiver's terminal velocity that were in agreement with the reported results from Red Bull™ scientists and engineers. However, our initial treatment of the simulation yielded results for Baumgartner's position that differed significantly from reported data. The group had to collectively think critically and propose solutions to this problem. By encompassing more variables we were able to provide a simulation, which better matches and represents the physical situation in which we sought to model. Our presentation strongly illustrates how thinking critically is a foundation of all scientific work.

11:15 – 11:45

Jordenne Ferenczi*Leaf Margins and Climate: An Idea to Sink Your Teeth Into?***Mentor: Jeffrey Lake****Ribbon: Thinking Critically**

Leaf margins have been related to climate conditions, particularly temperature, and in the fossil record, have been used to predict the paleoclimate of locations, based on size and number of projections from the margins, also referred to as leaf teeth. In this project a total of 160 leaves were selected from plants in Family Sapindaceae from forests in Michigan and Belize. The leaves were analyzed using Image J, and the data from number of teeth, size of teeth, and area of teeth compared to total area of leaf were compared between the two regions to see if a correlation could be found between climate of each area and the leaf margins. This project related to the ribbon of thinking critically because not only did it require the in depth analysis of each leaf with a software, but it required the individual calculation of each leaf and then the comparison of the leaves at an individual, species, and location level. Similar to the results of Royer et al, this work showed decreased importance of leaf teeth in warmer tropical climates.

Session 10

Jones 204

10:25 – 10:45

Austin Mac Wallace*Ancient Greeks' Heroic Outlook and Overcoming the Resistance to Kill***Mentor: Michael McGrath****Ribbon: Crossing Boundaries and Disciplines**

This research incorporates the disciplines of psychological analysis and historical research.

There have been plenty of times where warfare has forced a nation to contribute nearly all available young men and even some of their women into fighting a war. A homeland in turmoil sparks nationalism, patriotism, and can give pride to those who put others before themselves. While this usually occurs in a time of war, not too often are they commonplace regardless of the status of conflict. There are few cases more extreme in terms of expected national service than that of the ancient Greeks. When contrasted with how military service is viewed by American society today one might find it hard to believe that this ancient culture's stature on expected military service really existed. Although many historical works have led the readers to believe otherwise, killing is not a natural act for any sane human being, especially when the circumstance is that of taking a fellow human life. There is typically a strong opposition in the average human being to kill their fellow human. The extent and nature of that resistance is not as obvious as one may think. In almost all cases for someone to kill they have to be conditioned to kill or to be put under extreme circumstances where surpassing this resistance is possible. By understanding the existence of a human resistance to killing within every average sane human, one can recognize the feat in the Greeks accomplishing a mass desensitization to violence. Distinguishing the similarities in the well-recognized concepts that have been developed and applied in modern combat training with that of the ancient Greeks demonstrates how successful they really were in creating successful killers. Also, the portrayal of violence in modern media as entertainment, which is so readily available to children today, has a resemblance in consequence to the desensitization of ancient Greek children to violent acts. Through the comparison of modern theories of the psychological hesitations to and consequences of killing with Ancient Greek warrior culture one can identify why the hoplite was successful in overcoming his inherent hesitation to killing.

Session 10

Jones 204

10:50 – 11:10

Jammie Woods
*The Graves Farm***Mentor: Penny Cobau-Smith****Ribbon: Caring For Humanity and the World**

This Ribbons of Excellence presentation will be an informational session about the Graves farm, which is located within the property of Michigan International Speedway. This presentation will inform the audience of the history of this building and the process through which the information was retrieved from working with the Lenawee County archives. The presentation will include a timeline of the barn and some information during important years about the family and people most influential to this site. The main goal in working with this site is to turn it into a nationally recognized historical landmark. This presentation will also explain ways to use this site for educational purposes, at any grade level. This site has immense potential and with a great history so close to home, there is so much to learn and expand upon, not only as teachers but also as lifeline learners and community members. The Graves Farm has numerous opportunities to reach out to schools and students in order to continue learning inside and outside of the classroom. This property that the Michigna International Speedway owns can be used to further education throughout the community. The Ribbon Of Excellence that is focused on in this presentation is "Learning Throughout a Lifetime". This opportunity from MIS can create many new learning opportunities for people of all ages.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 10

Jones 204

11:15 – 11:45

Andrew Miller*Single Mother Household and Evolving Masculinity's Relation to Educational Success***Mentor: Al Craven****Ribbon: Caring For Humanity and the World**

The amount of single mother households in America is staggering; almost one third of children in America are raised without their biological father (US Census Bureau). This presentation will analyze the negative and positive results of how single mother households correlate with educational success in children and young adults in America's education system. Also, this study will analyze evolving masculinity. Although the term masculinity is quite ambiguous, it is apparent that it as an always evolving term. Through popular culture, books, and all media, masculinity has seen a shift from a violent, primitive nature, to something that is more arguably traditionally feminine. The demise of traditional aggressive masculinity has been argued in novels such as Chuck Palahniuk's novel "Fight Club," in which it is argued that men in today's society are raised by women (which can be seen in the staggering and growing single mother households). This arguable change in the idea of masculinity has implications on the educational system as well, in the areas of behavior and achievement in the school setting, which will be studied in this presentation.

Session 11

Hickman Boardroom

1:30 – 1:50

John Hudzinski*Development of a Device which increases the life time of a lacrosse ball***Mentor: Michael Claus****Ribbon: Developing Creativity**

The average lifetime of a lacrosse ball for a typical college lacrosse team is two weeks. After this time, the ball develops a slick film over its surface. This film creates problems for a lacrosse player because the ball will release at a different point in the stick than that of a new ball. After a ball develops this film, it is common practice to throw them away. A typical college lacrosse program spends over \$500 dollars or more on lacrosse balls every year due to the formation of this film. Developing a lacrosse ball cleaner will save a lot of money for lacrosse teams and individuals who do not want to purchase new lacrosse balls often. The lacrosse ball cleaner was developed to be similar to a golf ball cleaner, and uses petroleum ether and a scrubbing brush to clean the film off of the lacrosse ball. The device was developed to eventually be sold to other lacrosse teams in an entrepreneurship venture. This project ties into the critical thinking ribbon because there is currently no device on the market that accomplishes this.

1:55 – 2:15

Brenna Toland*The Night Circus: The Narrative Antidote***Mentor: Bethany Shepard****Ribbon: Crossing Boundaries and Disciplines**

As Jane Austen's *Pride and Prejudice* continually gains modern popularity through both print and film, it is easy to wonder why exactly she is on the rise to fame again, as well as to wonder if there will ever be another author to be as successful as Austen was in influencing her readers through her novels and characters. In her recently published novel, *The Night Circus*, Erin Morgenstern not only responds to Jane Austen, but revises and elevates similar themes of morality and behavior to apply to modern thought and action. Morgenstern specifically does this through structural revision, character, and plot revision. These revisions provide insight into moral implication, behavior, target audience, commentary on storytelling, and writing style. Erin Morgenstern's revision of Austen offers an antidote to the contemporary, distracted public. The antidote is a critique of both Austen and modern society, as well as an assertion of narrative as the modern version of storytelling. With Morgenstern using the medium of the novel as a modern mode of narrative, it is impossible to ignore the relation to *Pride and Prejudice* as inspiration for *The Night Circus* in regards to revision. As an antidote to the contemporary, distracted public, Morgenstern uses Austen's work as a model of history and subtly refers back to it in order to simultaneously create something modern and fresh while maintaining history and merit.

As a 2013 ROE Presenter, I have been asked to compose a Tying Ribbon Statement in direct correlation to my Ribbons of Excellence Presentation, titled "The Night Circus: The Narrative Antidote". The second ribbon in my presentation is Crossing Boundaries and Disciplines. In my presentation, I examine critical connections made between Morgenstern and Austen's novels, as well as advanced literary theory, in order to bring light upon the issue of modern literature's lack of merit and accreditation by most traditional academics. The fact that I am challenging not only the standards of literature but the minds of several generations crosses boundaries as well as disciplines.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 12

Knight Auditorium

1:30 – 1:50

Abbey Davis, Chloe Stiriz*Soft Skills: Their Importance and Effect on Women in the Workplace***Mentor: Patrick Quinlan****Ribbon: Caring for Humanity and the World**

Previously with the Pursuit Program, research was conducted to determine which soft skills are most valued by employers and which are most beneficial to employees. Soft skills include the ability to listen well, handle conflict, work in teams, and communicate effectively. Using these determined soft skills a program will be completed by a group of women at the Catherine Cobb Center to further develop their soft skills, increasing their marketability. Research will be conducted throughout course of the program to determine what the effect programs such as the Pursuit have on women in the workplace. Gaining statistical information on jobs obtained and retained with the help of the soft skills program will be the focal point of the research. This presentation will cover the importance of soft skills in the workplace, and an in depth review of the results of the research on the end effect these programs have on women in the workplace.

The ribbon associated with this presentation is, caring for humanity and the world: making socially responsible decisions; providing service to local and global communities; interacting positively with persons of diverse cultures and backgrounds. By teaching women in unfortunate positions soft skills to help them obtain jobs is a great way to give back to the community, by increasing the number of contributing citizens. The program will not only help these women better their lives, but also increase the livelihood of the community as a whole.

1:55 – 2:15 **Michael Campbell, Alexander Pistilli, Joshua Gorney, Megan Vandekerkhove, Holly Mykolaitis, Ethan Maltz, Alexandria Maxson**

*The creation of an anatomical atlas using *Xenopus laevis****Mentor: Marti Morales-Ensign****Ribbon: Crossing Boundaries and Disciplines**

The African clawed frog, *Xenopus laevis*, is a current popular model organism in research (e.g. , genetics, molecular biology). Our lab is currently establishing and organizing an online anatomical atlas for other researchers and students alike to use in a public online informatics database. One goal is to provide an atlas for the various life spans/stages in our own established online database. Another goal is to represent these stages in the various key anatomical planes (sagittal, coronal, and transverse). Recently, new protocols and procedures are also becoming expanded to configure ways on how to create and display individual organs and their specialized features with the overall *Xenopus* atlas database. For our work here, we plan to provide an update of this plan and reveal pieces of our current work.

Session 13

Downs Theater

2:30 – 3:00

Alexandra Myers*[Insert Title Here]***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

[Insert Title Here], is a hilarious, original and student-written comedy show featuring the talents of Alexandra Myers, Lauren Penfold, Timothy Harkleroad, and Jaelinn Soeltner. Through a combination of original sketches, self written stand up comedy, and audience participation improvisation games, the audience witnesses a sense of each member's comedic style. The process to make this night a success began with the formation of a small on-campus improvisation troupe of students who gathered to explore different research and the development of writing to improve areas of acting through the genre of comedy. Many of the characters and situations for the sketches came from organic ideas, life observations or improvisation sessions. These meetings included constructive improvisation games and writing workshops. Students were held responsible for writing their own sketches. Writing exercises allowed them to explore their style and improve comedic timing. The success of the sketches depended on the bond of the group and understanding each person has for one another. The inspiration of this group came from The Second City, who have specialized in sketch comedy and improvisation for the past fifty years. A few sketches and an overview of the process of sketch comedy writing will be presented in this unique demonstration.

The ribbon that ties to my presentation, [Insert Title Here], is developing creativity. I was inspired by the creative art of improvisational comedy and wanted to study it further. It developed into a passion and became the focus of my senior studies and show. Over the last semester until currently, I have been leading a small troupe of students through different aspects of comedy, mostly focusing on improvisation. I have taken their already existing theatrical skills and pointed them in a direction that is new, organic and challenging. My presentation of this ribbon and of my show will be a walk through this creative learning process. The overall goal is to display these students strides, my leadership and comedic skills and of course, to evoke laughter. For laughter truly is the best medicine.

Session 14

Knight Auditorium

2:30 – 3:00

Brittanie Kuhr*Women in Higher Education***Mentor: Michelle Hiscock****Ribbon: Learning Throughout a Lifetime**

"Women in Higher Education" is a documentary comprised of real-life accounts and words of wisdom from women who hold positions in Higher Education Administration. These women represent various colleges and universities in the Southeast Michigan and Northwest Ohio regions. The raw, unique, and inspiring interviews have been compiled to give light to these women's individual experiences in such an influential field.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

3:15 – 3:45

Ian Leslie Malvern Hudgins*Wham, Bam, Thank You Ma'am. Leaving it all on Stage.***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

In any given society, understanding is gained through dialogue, conversation, and the use of language. Unfortunately humans cannot speak with those that have passed on to understand our history. With every era humanity has gone through, theater exists as a preservative for culture, societal values, and, of course, language. The audience of this recital followed Ian Hudgins through the maturation of theatre, from the era of Thespis and his dithyrambic chorus to the thrilling, and sometimes childhood-shattering, dramas of Neil Labute and Bert Royal. Ian explored the stylistic changes of language over the course of theatre's development: the subtle changes of the narrative from poetic to confrontational or nonsensical, and even back to poetic characteristics that the language of theatre started with. Over the course of his performance the audience witnessed and took part in the joy of theater as Ian showcased his ability to perform a wide variety of character types both alone and with the help of partners, Kellie Fisher and Matthew Pecek.

Session 15

Admin

9:00 – 10:00

Julie Sager*DWP-Driving while Photographing***Mentor: Garin Horner****Ribbon: Developing Creativity**

The artwork for this exhibition will contain eight to ten photographic prints. There will be some black and white and some color prints, some made with film and some with digital photography. As a part of the exhibition a continuous line of text will be added under all of the hanging photographs that describes the artists thoughts and feelings while the photographs were made. All of the images were made while the artist was in a car either driving or as the passenger. The images will be hung from rear view mirrors or side mirrors of cars. The work is about how there have been two driving paths of the artist's life that have been the most significant. Viewing the scenery of these paths is part of the process the artist goes through in order to reflect on her inner thoughts and get through sad and stressful times, or just think about the good things that are ahead at the destination.

The way my presentation illustrates the Developing Creativity ribbon is they way that my content developed over time through creative thinking. It began with a curiosity about how my images would turn out if I made them while I was driving. During the process of multiple photo shoots I had come to realize that the meaning was deeper than that. I actually had a connection with these photographs and the memories they held of the significant drives I have taken in my life.

Session 16

Admin

9:00 – 10:00

Candice Sires*Painting Faces***Mentor: Garin Horner****Ribbon: Thinking Critically**

I recently created a series of photographs entitled Painted Faces. In this series, I experimented using the face as a canvas. I used a combination of paint and makeup to realize the designs I wanted and in several cases I cut and styled the hair as well. This created a unique experience for me as an artist because for the first time I was applying my creative ideas and personal aesthetic to the three dimensional living flesh of another. I became acutely aware of the difference in how I had to paint, analyze and address the issues in design.

My proposal is to exhibit six photographs from this series in conjunction with a two-part presentation on the process from the views of artist and model. First, my thoughts and feelings pertaining to the differences, implications, and boundaries I needed to consider as the artist working on the face of another person, and second, how my models felt regarding the concept I approached them with, the process, and results.

My presentation, Painting Faces, will specifically exemplify two of the facets identified under Ribbons of Excellence, Thinking Critically: exploring multiple points of view and raising thoughtful questions. I have combined aspects of painting, design, costume, and theatre makeup in the approach to this series of photographs entitled Painted Faces. My presentation will discuss the questions raised about the differences, implications, and boundaries created by or crossed by this approach and will include the viewpoints of myself, as the artist, and those of each model.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 17

South Caine Entrance

9:00 – 10:00

Shannon Kynion*REcollection: Memories collected throughout a lifetime***Mentor: Garin Horner****Ribbon: Developing Creativity**

"Each of us is an accumulation of our memories." - Alan Loy McGinnis

My senior exhibition will be an installation of mixed media assemblages that incorporate imagery dealing with memory. The space will be a simulation of a home, filled with objects that symbolize life experiences and recollections; pleasant memories as well as regrets. Everyone will leave this world. The question is, what memories will we be left with when looking back upon our lives, and what things of ours will others be left with at the end of our lives?

This exhibition is the culmination of four years of intensive study and practice. To say that I've developed creativity over these past four years is an understatement. I have not only developed creativity with the help of my skilled professors, but have also developed purpose. The goal of my senior exhibition is to encourage viewers to think about the things that they are spending time and energy on, and whether those things will have been worth those resources at the end of their life. This presentation is a piece of that exhibition, a grouping of work entitled "The Unreal". It is a mixed media assemblage that represents all of the things in life that look good on the surface, but that are truly meaningless and unattainable when analyzed more closely.

Session 18

Admin

10:00 – 11:00

Colleen Higgins
*Through my Eyes***Mentor: Garin Horner****Ribbon: Developing Creativity**

I believe that there are two sides to every human. There is the side that is seen by the world, and the side that is kept hidden. Many people do not know that they have another side, because they do not know themselves well enough. My photographs are about my hidden side. The side that I do not know how to express any other way than through the art of photography. I also hope, as part of this process, to help others explore aspects of their own hidden side.

Session 19

Admin

10:00 – 11:00

Christina Butler
*Truth About Love Through Art***Mentor: Garin Horner****Ribbon: Developing Creativity**

My presentation will be an overview and explanation of my Outstanding Junior Award Art Show that was exhibited in the Nicolay Heritage Room in Shipman Library from January 18, 2013 to February 15, 2013. My exhibition was titled “Truth About Love” and I presented work that dealt with many different views and concepts about romantic love. I took into consideration my past experiences as well as my observations of love based off family and friends. I began to think about what it is that makes up love and what it is really about. I discovered, though, that there are numerous aspects of love and it is something that cannot be defined clearly. My art explores all these venues and allows people to contemplate their own past experiences that help define their truth about love.

I will display framed artworks within my presentation to give people a personal experience with the work. The artist statement would be read and then I would further explain my work and the meanings behind it. My exhibition award was an honor and I wanted to create art that was personal, while at the same time expressing a universal truth.

My presentation on my art exhibition, Truth About Love Through Art, is directly connected to the Ribbon, Developing Creativity. For my exhibition, I had to use creative and original thought to produce artwork that would be intriguing and different. The art world is vast in ideas and methods yet it is crucial to create work that is uniquely reflective of the artist and yet is something that has not been done before. This uses a great deal of creativity and I feel that my show demonstrated a deep, thoughtful creative process. I made art that was distinctive to my specific style that I am developing and used a medium that I felt best demonstrated my strengths in the arts. Developing Creativity is one of the most important elements in producing artwork and my exhibition clearly presents this Ribbon of Excellence.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 20

South Caine Entrance

10:00 – 11:00

Alexandra Schaufele*LINE***Mentor: Pi Benio****Ribbon: Developing Creativity**

The proposed exhibition will feature a symbolic representation of the fourth dimension, which is time. The concept of time will be expressed by a sixty foot woven fiber line which will be hung in the form of an infinity warp. The viewer will be urged to weave themselves through the installation which will perhaps invite them to contemplate the concept of time through their own personal experience.

*2013 Outstanding Ribbons of Excellence Program Award Nominee

Session 21

Valade Gallery

10:00 – 11:00

Janelle Post*Deceiving Artwork Revealing The Truth to Happiness***Mentor: Pi Benio****Ribbon: Caring for Humanity and the World**

My paintings and ceramics are the result of the way I have been raised, what I experience within the culture in which I choose to surround myself, and my ideals as an individual. I strongly believe that in order to have true happiness, one must accept themselves and the world as it is. By this I do not mean there is nothing anyone can do to change the world. I simply mean there are truths in life to which everyone must answer in order to live a full and beautiful life.

My intention as an artist has always been to make the world more beautiful. I desire to share the happiness I find in the small things in life. I used to believe that the way to do this was to paint and make pretty things that people liked however I had failed at sharing that concept fully. The truth about failure is that it has its own success because there are lessons you can learn from

Ironically, my artwork is laced with secrets, symbolism and deception, half of my work is trompe l'oeil, which means to trick the eye. It is within these secrets and deceptions that I reveal more truths about my own sense of happiness.

Session 22

Dawson Auditorium

1:30 – 1:50

Katherine Ialacci
How Far We've Come

Mentor: Annissa Morgensen-Lindsay**Ribbon: Developing Creativity**

How Far We've Come was a presentation of many different styles of musical theatre, classical music, dancing, and acting. Starting from the 1900's, every decade up until the present was covered in one or all of these four ways. The audience experienced singing, dancing, acting, and the hard work and dedication that it takes to be a musical theatre performer. The main goal of this recital was to not only showcase 4 years of improvement on singing and dancing, but to also be more confident while acting out songs and scenes. Another goal that was accomplished with this recital was the leadership skills that it took to prepare a recital. How Far We've Come also featured other musical theatre majors from Adrian College. This recital consisted of songs from many popular shows including Little Women and Oh, Kay! and also a tap duet. A few songs and a monologue will be presented on the day of Ribbons of Excellence

The Ribbon I chose to represent my presentation is "developing creativity." The description for Developing creativity is, engaging in creative arts; developing creative talents and skills; recognizing and employing figurative expression. With my senior project, I believe I have done all of these things. I have researched the history of musical theatre and I have applied that history to today's world. I have also been constantly rehearsing songs, scenes, dances, and monologues, with the hopes to express my emotions in a way that my audience can understand.

1:55 – 2:15

Steven Rolph
A Journey Into German Lied

Mentor: Elizabeth Major**Ribbon: Thinking Critically**

For the 2013 Ribbons of Excellence conference, I will present a lecture-recital in which I explain and perform some famous pieces of German Lied by both Franz Schubert (1797-1828) and Robert Schumann (1810-1856). Lied (plural lieder) is a German and Dutch word literally meaning "song". It usually describes the setting of romantic German poems to music, especially during the nineteenth century. The poetry used in lieder usually centers upon pastoral themes, or themes of romantic love. I am prepared to give examples of both, from Schubert's very familiar "Ave Maria" to Schumann's "Mondnacht", while thoroughly dissecting the intricacies of the pieces performed.

Such a presentation would fall under the "Thinking Critically" Ribbon, as I would be comparing and contrasting the composition style and poetry used by both composers. German Lied offers a wonderful selection of music that when dissected critically, offers up a few questions. How did the composer's shape their pieces to portray the poetry involved? Also, how does the portrayal of the text through their music impact the all-around experience of the performer?

Poster Session

5:00-6:00

Adrian Tobias Room

5:00 –6:00

Ashley Vernier*Effects of Overconfidence and Feedback Style on Accuracy of Answered Mock Crime Questions***Mentor: Stacey Todaro****Ribbon: Thinking Critically**

In this experiment, the effects of overconfidence and feedback style on the accuracy of answered mock crime questions were examined. The participants rated how confident they were in their overall memory in general. Participants watched a mock crime video and immediately following, they answered a series of multiple-choice questions about the video. Participants then received feedback on the accuracy of their answers based on their randomly assigned conditions: confirming, disconfirming, or no feedback. After the participants answered each question, participants then rated how confident they were in their answer. Results revealed that there were no significant effects of overall confidence in memory, feedback condition, or their interaction on the accuracy of responses on the multiple choice questions or rated confidence during the questions. However, post-hoc LSD comparisons indicated that participants in the disconfirming feedback condition were less confidence across all questions than participants in the confirming feedback condition and no feedback condition. Also, participants in the high confidence level across all questions were more confident in their overall memory than the medium and low confidence levels. The implications of these results are discussed in the context of eyewitness testimony and criminal justice court system questioning.

5:00 –6:00

Jacqueline Belman*Stage Management of Anatomy of Gray***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

As demonstrated with the production of Anatomy of Gray at Adrian College, the Stage Manager provides organization, collaboration, communication, and support to the director, actors, designers, stage crew, and technicians throughout the production process. The Stage Manager guides the actors and designers through the production with organization and a particular zeal that keeps the process interesting and fun. The Stage Manager must always be aware of what is going on and must always be prepared for the unexpected. A Stage Manager researches and creates a professional grade prompt book for a successful production. A prompt book contains all the information pertaining to the production including the scripts, the light plot, the set design, costume designs and anything that might be needed during the production process. For this presentation, the Stage Manager will show examples of complicated cues within the script, copies of completed templates and will be available to answer any questions regarding the prompt book and the production process.

Poster Session

5:00-6:00

Adrian Tobias Room

Kimberly DeVore*A Summer of Forestry Exploration: Interning at the Huron Manistee National Forest***Mentor: Jeffrey Lake****Ribbon: Learning Throughout a Lifetime**

One of the best ways to stay sharp and interesting, and to enjoy life, is to continue learning throughout a lifetime. During the summer of 2012, this student had the opportunity to begin a lifetime of learning about careers in the US Forest Service as an intern at the Huron Manistee National Forest in northern Michigan. In this poster presentation, various experiences from this internship will be presented, including an explanation of well maintenance (painting, caulking, water quality testing) by forestry engineers. These engineers also maintain the road system within the Park, through moving and sawing trees and clearing other debris, as well as highlighting the roads. The Forest's archaeologist worked on locating human artifacts, recording, cataloging, and in some cases, collecting them. Dispatch employees provided structure and communications to the widely dispersed staff, monitoring radios and other tools to ensure the safety of the staff, visitors, and the well-being of the forest.

Shawn Courtney*Evaluating Hydrocarbon Reserves***Mentor: Thomas Muntean****Ribbon: Developing Creativity**

This project will evaluate existing well logs in an effort to locate potential hydrocarbon accumulations within a reserve. Hydrocarbon reserves are defined as an underground accumulation of oil and gas that can be extracted for human use and require four components to form. The first two components are organic rich source rock and a reservoir rock that is sufficiently porous and permeable to store and transmit the hydrocarbons. An impermeable seal rock is needed to keep the hydrocarbons contained within the permeable rock. Lastly, a hydrocarbon trap is needed to allow concentration of gas within a small area. The subsurface well logs will be evaluated and the vertical distribution of rock units within individual wells documented. These data will be used to correlate the lateral distribution of rock units from wells transecting a potential hydrocarbon field. The primary types of data used will be spontaneous potential (SP) and resistivity logs as well as other potential data sources. The lateral correlations will allow for the identification of geologic structures including unconformities, faults and folds that may be hydrocarbon traps. The location of potential hydrocarbon accumulations will be located based on the interpreted subsurface structure.

Petroleum geology is a multidisciplinary science that involves critical evaluation of data from geology, physics, chemistry, and biology. This project applies to the Thinking Critically ribbon as a critical evaluation from an interdisciplinary perspective is required to interpret subsurface geophysical data and determine the potential for hydrocarbon accumulations within a reserve.

Poster Session

5:00-6:00

Adrian Tobias Room

Christian Wood*The Summer of a Lifetime: Interning at a Veterinary Hospital***Mentor: Jeffrey Lake****Ribbon: Learning Throughout a Lifetime**

The purpose of this presentation is to document the hands-on learning experience of a summer internship at a veterinary hospital in Michigan. This internship consisted of eight, forty hour work weeks in which I learned about all the aspects of a successful veterinary hospital. During these eight weeks I was taught how to safely restrain animals, distribute veterinary pharmaceuticals, prepare animals for surgery and properly bill clients. I was also able to shadow a veterinarian on a variety of large animal farm calls. During the duration of the internship I became accustomed to the surgical instruments used for surgeries ranging from a simple canine neuter to a Tibial Plateau Leveling Osteotomy. I also had the honor of scrubbing in on a number of surgeries. This internship provided me exceptional hands-on learning experiences that will be useful in my career. Furthermore, it allowed me to better develop my attention to detail and effective communication skills with veterinary staff and clients. Because I want to become a veterinarian, this kicked off my lifetime of professional learning representing the Ribbon of "Learning throughout a lifetime."

Jeffrey Clark*Lighting Design for Anatomy of Gray***Mentor: Annissa Morgensen-Lindsay****Ribbon: Developing Creativity**

Lights up. The most common way for any dramatic script to start. Few people put much thought into what this means, however lighting design has become one of the most influential technical elements of theatre, and one of the most fascinating. Through lighting one can create mood, a setting, time, and even a storm, all things that are shown in Anatomy of Gray. The lighting design for Anatomy of Gray demonstrates the use of proper three point lighting, as well as a knowledge of special effects on the stage. The design includes all paperwork, plots, and renderings used by professionals, it will also appropriately capture the mood of the show and facilitate the scene changes. This presentation shows all of the unseen elements of lighting design, from the paper to the grid, and the final product on stage.

Poster Session

5:00-6:00

Adrian Tobias Room

Melissa Woolsey*The Effects of Cyber Exclusion on Prosocial Behavior***Mentor: Stacey Todaro****Ribbon: Thinking Critically**

The goal of the current research was to observe if cyber exclusion, through an online game, would affect the amount of prosocial behavior a participant performs afterward. Research suggests that those included most in the game would spend the most time acting prosocially. In the study participants played a computer game that excluded, included or over-included the participant in the game with the other simulated players. Afterward participants were presented a prosocial task where they chose how much time they would spend helping. In addition, pre (after affect condition) and post (after prosocial task) mood scores were examined to see if there was a possible effect of prosocial behaviors on mood. Results did not show a significant effect of exclusion on the time spent on the prosocial task. In addition, there was not an effect of prosocial behavior on post mood.

Alexis Horstman*Education Beyond the Books: My African Experience***Mentor: Robin Bott****Ribbon: Caring for Humanity and the World**

In caring for humanity and the world, you look at how one can provide a service to those in different communities and interacting with people who come from a different culture and background. I recently returned from studying abroad through AIFS in South Africa. Not only would I like to share my stories and how I was able to fulfill my interests in animal biology outside of the classroom, but also my experience in helping a community less fortunate than most in this world. I was enrolled in a class on HIV and AIDS while in Stellenbosch and although the lectures were no different from here at Adrian, the project we were given outside of the classroom really opened my eyes and touched my heart. Sharing details from the greatest 5 months of my life will encourage students to get out and broaden their education, not only in the classroom, but throughout the world. My presentation will be based on worldly experience, expanding ones education beyond the books, and connecting with people around the world through many different aspects.

Poster Session

5:00-6:00

Adrian Tobias Room

Erin Bisco*Cross-Species Grafting of Fruit Trees***Mentor: Jeffrey Lake****Ribbon: Thinking Critically**

Grafting has been used in agriculture for thousands of years to propagate less hardy species and to preserve other plant species in the event of disease and environmental damage. Multiple grafting techniques are in existence; types used are dependent on the time of year, rootstock and scions, and intention of the grafter. The most common usage of grafting in agriculture is in fruit tree and vine propagation.

Two domestic species of pomme and drupe fruit trees, and a wild cherry tree were used as the base rootstock and scion source for this project. Additional scions were obtained from outside sources. Due to the slow growth of trees, this is an ongoing project for which methods, updates and challenges are presented. This work fits within the Learning Throughout a Lifetime Ribbon because these are avocational skills I intend to use in my home garden and orchard.

**Jessica Heaven, Logan Hamel, Ashley Vernier,
Melissa Woolsey**

*Can affective expectations change the way you feel after exercising?***Mentor: Suzanne Helfer****Ribbon: Thinking Critically**

Many studies have been done on the effects that expectations have on mood. The current study stems from research looking at the immediate effects and affect phrase can have on post-exercise mood. The current study advances this research by looking at the effect of an expectation that is delivered daily. College students were asked questions about their health and how much they exercise. They were randomly assigned to one of three groups. The control group received an exercise diary, the second group received an expectation stating that, "studies have proven that exercise elevates mood", in the initial session but not on their exercise diary. The third group saw the phrase in both the initial session, and on their exercise diary. Participants kept track of their exercise for two weeks, recording how much they exercised and their post-exercise mood. Results showed no significant differences between conditions. However, if the analysis was performed with control group removed, the group who received the expectation each day worked out significantly more than the group that received the expectation only once. We will discuss the original results and discuss ethical implications of omitting data from a journal article, or publication.

Our study incorporates most of the ribbons of excellence, but the one ribbon that our study incorporated the most is thinking critically. Our research is focused on how an expectation about mood can change post-exercise mood. When we developed this study we had to think about what moods we would assess, and how to word our expectation phrase so it would have the largest effect. These all were steps that took critical thinking to evolve into what was used in the actual study. Also when analyzing the data from our study we realized that we were not getting significant differences due to the control group and if we were to omit the control group we would have significant differences. Thinking critically about this, we one realized the ethical implications of omitting data just for significant results, and we plan on discussing these ethical implications further.

Poster Session

5:00-6:00

Adrian Tobias Room

Mitchell Barnard*The Placebo Response and its Effect on Performance on a Manual Dexterity Task***Mentor: Stacey Todaro****Ribbon: Crossing Boundaries and Disciplines**

Many mechanisms can contribute to the placebo response, of these; expectation is among the most substantial. The placebo response can affect performance on a vast array of tasks involving both cognitive and physical challenges. Most of the research has focused on non-skilled athletic tasks (e.g., maximal force production). Therefore, the goal of this research was to examine how the placebo response affects performance on a skilled athletic task, namely a manual dexterity task. Forty-two participants were asked to complete a manual dexterity task, specifically throwing a table tennis ball across a table in an attempt to land the ball in one of six plastic Dixie cups. The participants were given 20 attempts and the amount of successful tosses was recorded (pretest). Upon completion the participants received the expectation cue based on the conditions 1) no expectation, 2) unsure expectation or 3) high expectation via a short coaching video. The participants then completed another 20 attempts and the amount of successful tosses was recorded (posttest). The results of this study indicate that participants who receive expectation indicating that a specific stimulus will improve performance actually perform significantly better on a manual dexterity task than participants who receive no expectation.

Schedule of Events

Abstract Title	Presenters	Session	Page	Time
Hispanics of Lenawee County	Johnson, Amy	1	2	9:00 - 9:20
"From Motive to Performance, Connecting the Dots"	Martuch, Timothy	2	4	9:00 - 9:20
Discerning the Ethical Obligations of a Non-Fiction Writer to their Subject(s)	Andrews, Delaney	3	6	9:00 - 9:20
Frequency of Toxic Plants in Perspective Pasture.	Witt, Kylie	4	8	9:00 - 9:20
American Advertising Federation Adrian College Chapter- Glidden Gets You Going	Stiriz, C., Brannan, G., Muncey, S., VanZyl, M., Pike, B.	5	10	9:00 - 9:20
DWP-Driving while Photographing	Julie Sager	15	28	9:00 - 10:00
Painting Faces	Sires, Candice	16	28	9:00 - 10:00
REcollection: Memories collected throughout a lifetime	Kynion, Shannon	17	29	9:00 - 10:00
Wuthering Heights and Modern-Day Slavery: How a Nineteenth-Century Novel Relates to the World We Live in Today	Hannigan, Hilary	1	2	9:25 - 9:45
Performing Controversy: The Federal Theatre Project Living Newspapers	Trevisan, David	2	4	9:25-9:45
Efficiency of Supination and Pronation of the Foot in Long Distance Running				
Implementing Child Sex Trafficking Protocol	Cutler, Emily	3	7	9:25 - 9:45
The Humanity of Nature: Wooden Sculptures	Karapas, Amara	4	8	9:25 - 9:45
The Effects of Enemy Action on U.S. Public Opinion Regarding War: A Quantitative Approach	Williams II, Timothy Vern	5	10	9:25 - 9:45
Spatial Distribution of Invasive Shrubs in a South-East Michigan Forest	Bisco, E., Barron, A., Quinlan, A.	1	3	9:50 – 10:10
Analysis of Functional Traits of invasive shrubs in a Michigan forest	Barron, Andrew	2	5	9:50 – 10:10
Scheduling with Linear Programing II	Bryan, Sondra	3	7	9:50 – 10:10
Composing in Cusco	Jackson, Derek	4	9	9:50 – 10:10
The Ignored Threat: The Relationship between Declining Public Health Funding and Increasing Vulnerability of Emergency Preparedness	Vandekerkhove, Megan	5	11	9:50 – 10:10

Schedule of Events

Capabilities

Through my Eyes	Higgins, Colleen	18	30	10:00 - 11:00
Truth About Love Through Art	Butler, Christina	19	30	10:00 - 11:00
LINE	Schaufele, Alexandra	20	31	10:00 - 11:00
Deceiving Artwork Revealing The Truth to Happiness	Post, Janelle	21	31	10:00 - 11:00
JourNOWism	Andrews, D., Oake T., Simpson, C., Neal, M., Berky, I.	6	12	10:25 - 10:45
"If she is attractive I can't play with her; if she is not, I won't": The Ethical Battle of Women in Symphony Orchestras	Nietupski, Sarah	7	14	10:25 - 10:45
Pushing the Oxcart: What Defines the Oxcart Literary Magazine?	Wilson, Z., Newblom H., Noelke, A.	8	17	10:25 - 10:45
Project Development: Science Activities at Michigan International Speedway, a Pre-Teacher's Learning Experience	Quinlan, Aubrey	9	19	10:25 - 10:45
Ancient Greeks' Heroic Outlook and Overcoming the Resistance to Kill	Wallace, Austin Mac	10	21	10:25 - 10:45
Compassion in Jack London's The Sea Wolf	O'Connell, Alicia	6	12	10:50 - 11:10
The Future Viability of Musical Control in the People's Republic of China: Capitalism, Technology, and the Civil Society	Williams II, Timothy Vern	7	15	10:50 - 11:10
The Future of Memory Formation	Maxson, A., Eisinger, J.	8	17	10:50 - 11:10
Red Bull Stratos: An Extension of Classical Mechanics	Plath, L., Boehringer, S., Stefanski, M., Diven, B.	9	20	10:50 - 11:10
The Graves Farm	Woods, Jammie	10	22	10:50 - 11:10
Breaking the Fourth Wall: A Postmodernist Look at Parody, References, and Convergence in Anime, Manga, and Video Games	Reeder, Jordan	6	13	11:15 – 11:45
Energy Consumption Between A Re-Purposed And A New LEED Commercial Structure	Labick, Kat	7	16	11:15 – 11:45

Schedule of Events

Patterns of Conceptual Metaphor and Framing in the Debate over Abortion Coverage in the U.S. Healthcare Reform	Vandekerkhove, M., Rehe, L.	8	18	11:15 – 11:45
Leaf Margins and Climate: An Idea to Sink Your Teeth Into?	Ferenczi, Jordenne	9	20	11:15 – 11:45
Single Mother Household and Evolving Masculinity's Relation to Educational Success	Miller, Andrew	10	23	11:15 – 11:45
LUNCH				12:00-1:00
How Far We've Come	Katherine Ialacci	22	32	1:30 – 1:50
Development of a Device which increases the life time of a lacrosse ball	Hudzinski, John	11	24	1:30 – 1:50
Soft Skills: Their Importance and Effect on Women in the Workplace	Davis, A., Stiriz, C.	12	25	1:30 – 1:50
A Journey Into German Lied	Steven Rolph	22	32	1:55 – 2:15
The Night Circus: The Narrative Antidote	Toland, Brenna	11	24	1:55 – 2:15
The creation of an anatomical atlas using Xenopus leavis	Campbell, M., Pistilli, A., Gorney, J., Vandekerkhove, M. Mykolaitis, H., Maltz, E., Maxson, A., Rehe, L.	12	25	1:55 – 2:15
[Insert Title Here]	Myers, Alexandra	13	26	2:30 – 3:00
Women in Higher Education	Kuhr, Brittanie	14	27	2:30 – 3:00
Wham, Bam, Thank You Ma'am. Leaving it all on Stage.	Hudgins, Ian Leslie Malvern	14	27	3:15 – 3:45
Poster Session				
Effects of Overconfidence and Feedback Style on Accuracy of Answered Mock Crime Questions	Vernier, Ashley	P	35	5:00 - 6:00
The Summer of a Lifetime: Interning at a Veterinary Hospital	Wood, Christian	P	37	5:00 - 6:00
Cross-Species Grafting of Fruit Trees	Bisco, Erin	P	37	5:00 - 6:00
Stage Management of Anatomy of Gray	Belman, Jacqueline	P	33	5:00 - 6:00
Lighting Design for Anatomy of Gray	Clark, Jeffrey	P	35	5:00-6:00

Schedule of Events

Can affective expectations change the way you feel after exercising?	Heaven, J., Hamel, L., Vernier, A., Woolsey, M.	P	37	5:00-6:00
A Summer of Forestry Exploration: Interning at the Huron Manistee National Forest.	DeVore, Kimberly	P	34	5:00-6:00
The Effects of Cyber Exclusion on Prosocial Behavior	Woolsey, Melissa	P	36	5:00-6:00
The Placebo Response and its Effect on Performance on a Manual Dexterity Task	Barnard, Mitchell	P	38	5:00-6:00
Evaluating Hydrocarbon Reserves	Courtney, Shawn	P	34	5:00-6:00
Education Beyond the Books: My African Experience	Horstman, Alexis	P	36	5:00-6:00

Index by Author

	Page #		Page #		Page #
Andrews, Delaney	6, 12	Labick, Kat	16	Wallace, Austin Mac	21
Barnard, Mitchell	38	Martuch, Timothy	4	Williams, Timothy V.	10, 15
Barron, Andrew	3, 5	Maltz, Ethan	25	Wilson, Zachary	17
Belman, Jacqueline	33	Maxson, Alexandria	17, 25	Witt, Kylie	8
Berky, Isaac	12	Miller, Andrew	23	Wood, Christian	35
Bisco, Erin	3, 37	Muncey, Sarah	10	Woods, Jammie	22
Boehringer, Stephanie	20	Myers, Alexandria	26	Woolsey, Melissa	36, 37
Brannan, Greg	10	Mykolaitis, Holly	25		
Bryan, Sondra	7	Neal, Michael	12		
Butler, Christina	30	Newblom, Heather	17		
Campbell, Michael	25	Nietupski, Sarah	14		
Clark, Jeffrey	35	Noelke, Alex	17		
Courtney, Shawn	34	Oake, Taylor	12		
Cutler, Emily	7	O'Connell, Alicia	12		
Davis, Abbey	25	Pike, Brian	10		
DeVore, Kimberly	34	Pistilli, Alexander	25		
Diven, Brian	20	Plath, Logan	20		
Eisinger, Jennifer	17	Post, Janelle	31		
Ferenczi, Jordenne	20	Quinlan, Aubrey	3, 19		
Gorney, Joshua	25	Reeder, Jordan	13		
Hamel, Logan	37	Rehe, Lauren	18		
Hannigan, Hilary	2	Rolph, Steven	32		
Heaven, Jessica	37	Sager, Julie	28		
Higgins, Colleen	30	Schaufele, Alexandra	31		
Horstman, Alexis	36	Simpson, Claire	12		
Hudgins, Ian Leslie M.	27	Sires, Candice	28		
Hudzinski, John	24	Sefanski, Mitch	20		
Ialacci, Katherine	32	Stiriz, Chloe	10, 25		
Jackson, Derek	9	Toland, Brenna	24		
Johnson, Amy	2	Trevisan, David	4		
Karapas, Amara	8	Vandekerkhove, M	11, 18, 25		
Kuhr, Brittanie	27	VanZyl, Megan	10		
Kynion, Shannon	29	Vernier, Ashley	33, 37		