

**RIGOR IN**

# Schedule

April 16, 2015

General Information **1** **23**

Plenary Session **4**

Rigor in Scholarship: Opinion,  
Argument, & Citizenship

(11 -12 )

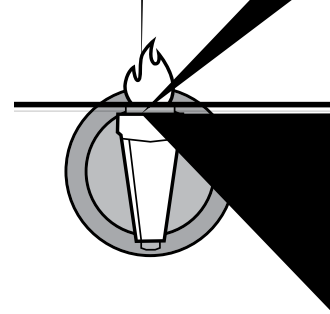
Concurrent **6**

Session I (11 -21 ) **7**

Session II (20 - 0 ) **12**

Session III ( - ) **18**

Session IV (00- 00 ) **23**



# General Information

Lewis University is proud to sponsor the Fourth Annual Lewis University Celebration of Scholarship. Providing an opportunity for the University to showcase the scholarly and artistic work of its graduate students, undergraduate students, and faculty, this annual scholarly event is co-sponsored by the Culture of Inquiry Advisory Committee; the University Office of Graduate Studies; the Colonel Stephen W. and Lyla Doherty Center for Aviation and Health Research; the Lowell Stahl Center for Entrepreneurship and Real Estate Studies; the History Center: Urban, Cultural and Catholic History of the Upper Midwest; the Center for Ministry and Spirituality; the University Faculty Development Committee; and the Scholars Academy.

Brother James Gahey, FSC, President of Lewis University, will open the Fourth Annual Celebration of Scholarship at the Plenary Session scheduled to begin in Sancta Alberta Chapel at 11 AM. The Keynote Address will be provided by Dr. Margaret M. Mitchell, Dean and Shailer Mathews Professor, The Divinity School at the University of Chicago.

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The Lewis University Celebration of Scholarship will present scholarly work in three different formats throughout the afternoon and evening.

**Concurrent Sessions – Students and faculty are encouraged to give a 15-minute presentation on a research topic or paper they have written. Concurrent sessions will be scheduled in rooms in the Academic Building from 1-6:00 PM. Registration for presenters and information regarding the various Celebration of Scholarship events will be available throughout the day in the hall between the Academic and Science Building.**

**Creative Works –** These can include any piece that has been written, published or produced in a field, including music, art, theatre, literary reading, poetry, etc. The newly renovated Oremus Fine Arts Center will provide a backdrop for creative works from 1-6:00 PM.

**Poster Sessions –** Research posters will feature the results of research projects, internships and class presentations. Registration for this event will take place in the hall between the Academic and Science Building. Posters will be displayed in the Science Center and the Mathematics and Computer Wing of the Academic Building from 12-6:00 PM with the authors present at times as designated in this program.



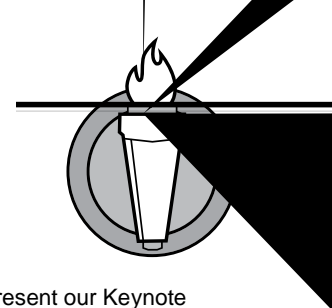
Dear Members of the Lewis University Community:

Always highly interactive, engaging and intellectually stimulating, the

Welcome to the Fourth Annual Celebration of Scholarship here at Lewis University.

This year's theme is Rigor in Scholarship: Interpreting the World Around Us, focusing on research, scholarly work and creative endeavors of Lewis students and faculty. Presentations will feature work produced in 2014 and

2015, including poster, paper and various creative works, as well as performances and exhibits. Once again, many academic fields are represented, including the sciences, arts, business, humanities, education and nursing. More than 350 students are participating in this year's program. Their activities and displays are located in various academic facilities, including the Science Center, the newly renovated wing of the Academic Building, the expanded facilities for Mathematics and Computer Science Center, and the Brent and Jean Wadsworth Family Art Gallery in the Oremus Fine Arts Center.



Dear Colleagues:

Once again, it is a privilege to welcome students, faculty, staff, and guests to our 4th Annual Celebration of Scholarship. Our inaugural event that began four years ago is blossoming into an event enthusiastically embraced by the Lewis University community and quickly becoming an integral

part of our culture. We again honor the excellent scholarly and creative endeavors of our undergraduate and graduate students that emerge from their work with faculty both in and outside of the classroom. We also recognize the research, scholarship, and creative works of our gifted faculty, who contribute so significantly to our student-centered Mission.

Planning for this annual event is an ongoing process, resulting from the dedicated, collaborative effort of many individuals and groups across the University. Without the enthusiastic contributions of the many faculty and staff serving on the Coordinating Committee, one of the subcommittees, as mentors for student projects, or as volunteers for the day, the continuing success of this event could not be realized.

The theme for this year's event is Rigor in Scholarship: Interpreting the World Around Us. Given our institutional commitment to prepare "ethically grounded graduates who are intellectually engaged, socially responsible, globally connected, and ready to make a unique contribution" (Lewis University, Strategic Plan 2012-2017), this theme provides a wonderful opportunity to spend a day appreciating the excellent work of our students and faculty as well as considering the significance of rigor in our work at Lewis University in creating our vision. Our Provost day will begin as we welcome Dr. Margaret M. Mitchell, Dean of the Divinity School at the University of Chicago and an acclaimed

scholar, to our campus. Dr. Mitchell will present our Keynote Address, Rigor in Scholarship: Opinion, Argument, & Citizenship and engage students and faculty in a dynamic conversation about rigor in scholarship. Throughout the afternoon, nearly 170 presentations of scholarly work will be showcased in concurrent paper, poster, and creative works presentations, where conversations about rigor in scholarship can be continued among students and faculty from across the University and disciplines.

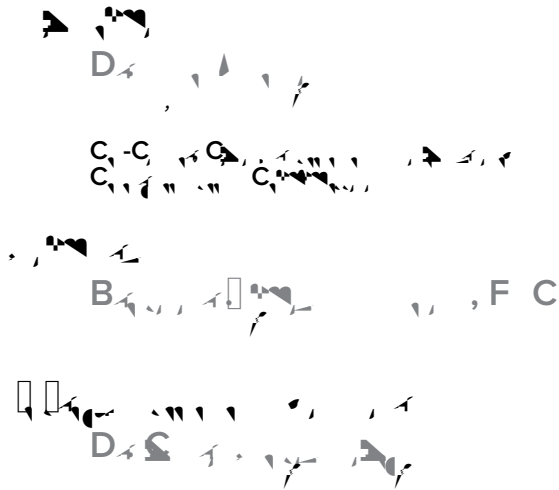
Another indication of the importance of rigor in scholarship at Lewis University is the success of our new Student Academic Conference Support program. During this academic year, this program has assisted 15 students across disciplines in presenting their scholarly work at professional conferences under the guidance of their faculty. A number of these presentations were showcased at last year's Celebration of Scholarship. Most of these students have undergone rigorous external review to be invited to present their work in addition to the review required at Lewis to secure funding. This initiative extends the learning well beyond the classroom and our campus by providing students the opportunity to showcase their work in a scholarly community of future peers in a professional setting.

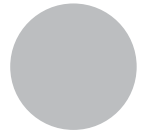
Thank you to all who contribute in so many ways to the ongoing success and growth of this annual event. The spirit of Association was clearly evident throughout the many months of preparation. Your excitement and enthusiasm was contagious as ideas were shared between disciplines and across campus. We are all grateful for your collaboration, creativity and intense dedication to learning. Congratulations to all on this significant contribution to advancing our Mission and student learning.

Sincerely,

Dr. Stephany Schlachter

# Plenary Session





# Rigor in Scholarship: Opinion, Argument, & Citizenship

## Dr. Margaret M. Mitchell, Ph.D.

Margaret M. Mitchell, Ph.D., is a Scripture scholar and historian of ancient Christianity. Her research and teaching span a range of topics including the Pauline letters, the poetics and politics of ancient biblical interpretation, and the intersection of text, image, and artifact in the construction of early Christian culture. Dr. Mitchell is the author of numerous books and articles, including the following: *Paul and the Rhetoric of Reconciliation* (1991); *The Heavenly Trumpet: John Chrysostom and the Art of Pauline Interpretation* (2000); and *Paul, the Corinthians and the Birth of Christian Hermeneutics* (2010). She received a John Simon Guggenheim Fellowship (2015-2016) to translate occasional sermons by John Chrysostom. In collaboration with Court Theatre, she also received a Mellon Fellowship for creative collaboration in “The Good Book,” a play about the Bible, which premiered in Chicago in March 2015. An elected member of several distinguished professional societies, including the American Academy of Arts and Sciences, Dr. Mitchell is in highest demand all over the world for lectures on a wide range of topics in the areas of religion and pedagogy.

# CONCURRENT

(See Presenters Index on Page 69)

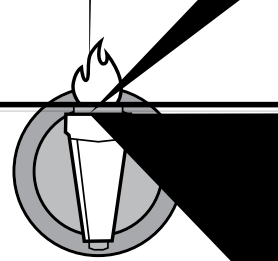
Session I (11 -21 ) **7**

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Session IV ( 00- 00 ) **23**





# Session I

## 1:15-2:15 PM

AS-150A

Moderator: Dr. Lesley Page

### Mathematics Behind Hunger

Undergraduate Student Project in Humanities  
Michael Smith

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The United Nations set a goal to attempt to end hunger in the world. While the published statistics say that they are getting close to reaching their goal, a New York Times article pointed out how often the numbers change. This project takes a look at how and why the numbers have changed and determines just how close we are to ending hunger.

### Corporate Social Responsibility and Catholic Social Teaching: Irreconcilable Differences or a Marriage Made in Heaven?

Undergraduate Student Project in Humanities  
Donna Thompson

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As the debate over Corporate Social Responsibility [CSR] continues, many corporations boast CSR teams with noted decades-long track records. Can the 124-year Catholic social teaching tradition help a CSR do good more effectively while increasing the company's profitability?

AS-155A

Moderator: Dr. Elizabeth Kozak

## Impact of Tau on CTE and Dementia

Undergraduate Student Project in Math/Science  
Cody Drozd

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Tau protein plays an important role in neurons. When damaged, this can lead to Chronic Traumatic Encephalopathy. When one develops CTE, they can suffer from Dementia.

## Mechanism Elucidation of Translation Inhibiting Antibiotics

Undergraduate Student Project in Math/Science  
Justin Ramotowski

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The discovery of new antibiotics is essential for modern medicine to stay ahead of emerging resistant pathogens. Blastidicin and bactobolin A are two antibiotics that show potential in stemming growth of pathogens.

## Possible Treatments of Ebola Hemorrhagic Fever

Undergraduate Student Project in Math/Science  
Zachary Joritz

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Ebola hemorrhagic fever has been an important topic in recent months due to the massive outbreak in Africa in the summer of 2014. No vaccine or treatments exist, but important possibilities of ones are highlighted in this presentation.



## AS-156A

Moderator: Eleftheria Karapas

### In ammatory Bowel Diseases and a Possible Correlation to Osteoporosis and Osteopenia

Undergraduate Student Project in Math/Science  
Ciersten Deardorf

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is presentation explores the major health concerns of osteoporosis and osteopenia and the association of underlying in ammatory bowel diseases. It has been hypothesized that there are other factors also in uencing the amount of low bone mineral density today in younger patients with in ammatory bowel diseases such as body mass index, corticosteroid therapy, bone metabolism (calcium, Vitamin D, phosphorus, etc.), age, gender, smoking, and duration of disease.

### The Risks and Bene ts of Organ Transplantation

Undergraduate Student Project in Math/Science  
Georgeann Garcia

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Many complications may arise after transplantation of an organ, such as organ rejection or the occurrence of cancer due to the immunosuppressant drugs that recipients must take inde nitely. ere are also many changes that occur within the body after transplantation and it is important to evaluate the overall quality of life for a recipient to ensure they are able to live life to the fullest.

### Novel Treatments for Alzheimer's Disease

Undergraduate Student Project in Math/Science  
Stephanie Thongsri

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Alzheimer's Disease is a neurodegenerative disease that affects 1 out of 10 people over the age of 65. It is the most common cause of dementia. Novel treatments like CHF5074, tetrahydrocarbazoles, human adipose-derived stem cells, and transdermal rivastigmine patches, are being made to help treat the disease.

**AS-157A**

Moderator: Dr. Mallory Havens

## Combatting Triple Negative Breast Cancer

Undergraduate Student Project in Math/Science  
Mariana Gonzalez

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Breast cancer is among the leading causes of death for women in the United States, among which the subset, triple negative breast cancer, is most deadly. New research helps seek effective ways at targeting genetic markers specific to triple negative breast cancer.

## The Role of Telomerase Enzyme in the Development of Cancer

Undergraduate Student Project in Math/Science  
Araceli Gutierrez

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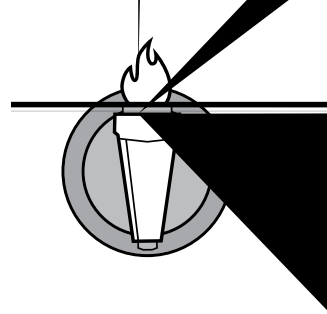
Many studies have shown that the expression of the enzyme telomerase is increased in cancer cells in the human body. This study is an investigation into the role that telomerase enzyme plays in the progression of certain cancers, and how this enzyme could potentially be targeted chemotherapeutically as a way to treat affected patients.

## Induced Pluripotent Stem Cells in Neurodegenerative Disease Modeling

Undergraduate Student Project in Math/Science  
Jaimie Hughes

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Scientists studying neurodegenerative disease have often encountered difficulty finding adequate cellular models on which to base their work. Induced Pluripotent Stem Cells (iPSCs) offer many researchers in the medical community the opportunity to use a renewable supply of non-embryonic-derived cells with which to perform various analyses.



# Session II

2:30-3:30 PM

AS-150A

Moderator: Dr. Michael Cherry

## Omega-3 Fatty Acid Supplementation to Relieve Cardiovascular Complications in Type 2 Diabetes Mellitus

Undergraduate Student Project in Math/Science  
Margarita Velmozhina

Omega-3 fatty acid supplementation is a promising addition to the current popular Type 2 diabetes mellitus treatments because it improves cardiovascular health, which is often compromised in diabetic patients. The two primary omega-3 fatty acids, eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), are capable of reducing oxidative stress, lowering triglyceride levels, and alleviating inflammation, reducing the overall stress on the cardiovascular system.

## The Use of Helminth Therapy to Treat Inflammatory Bowel Disease

Undergraduate Student Project in Math/Science  
John Boldt

Currently, the prevalence of Inflammatory Bowel Disease is high in modernized and developed countries where helminth infections are rare. In contrast, populations with frequent helminth infections are found in poorer countries worldwide and report few cases of Inflammatory Bowel Disease. The use of a

AS-155A

Moderator: Cathy Bohlin

## The Effects of Sleep Deprivation on the Human Body

Undergraduate Student Project in Math/Science  
Cynthia Ochoa

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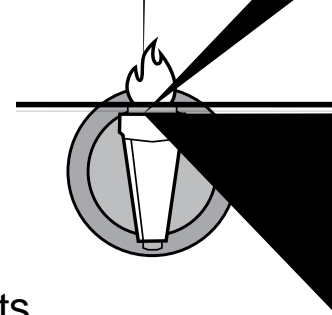
Sleep deprivation has become a major problem in modern society. Lack of sleep is known to lead to chronic diseases, neurodegeneration, mood disorders, obesity, and diabetes. This project will explore studies showing that sleep intensifies organ specific molecular functions and its ability to reduce cellular metabolic stress in the brain and peripheral tissues.

## Prevalence of Breast Cancer in the Younger Generation

Undergraduate Student Project in Math/Science  
Victoria Abraham

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According to the U.S. National Cancer Institute Surveillance, Epidemiology, and End Results (SEER) archive, the rate of advanced breast cancer in young women is gradually increasing. This research identifies the factors.



## The Neurotrophic Effects of Exercise on Learning at the Genetic Level

Undergraduate Student Project in Math/Science  
Sean Cleary

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The beneficial effects of exercise on cognitive ability are widely known. Research has shown that optimal exercise can increase the genetic expression of neurotrophic factors that promote brain plasticity. The right amount of routine exercise can epigenetically promote an organism's ability to learn on the biological level.

AS-156A

Moderator: Dr. John Parker

## Females and the Risk of ACL Injury

Undergraduate Student Project in Math/Science  
Leigh Barea

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Anterior cruciate ligament (ACL) injuries are one of the most common knee injuries for males and females. However, females have a 2-8 times greater risk for injury than their male counterparts. Researchers are studying possible risk factors such as anatomical, neuromuscular, and hormonal differences that explain the large difference between male and female ACL injuries.

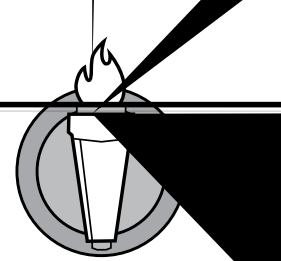
## Implantable Miniature Telescope to Help End-Stage Macular Degeneration Patients

Undergraduate Student Project in Math/Science  
Nicholas Pietrek

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A presentation on what the implantable miniature telescope is and how it is used to help patients with end-stage macular degeneration.





AS-157A

Moderator: Dr. William Blackwell

## False and Deceptive Advertising: Photoshop in Magazines

Undergraduate Student Project in Social Science  
Nicole Krage

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Magazines often use Photoshop to drastically alter images. This project explores students' views and opinions on unedited versus edited images, as well as when they believe the use of Photoshop to be ethical.

## The Portrayal of Females in Disney Movies

Undergraduate Student Project in Social Science  
Nicole Krage, Roslyn Summerville,  
Jade Osowski and Andrea Earnest

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The portrayal of female characters in Disney movies has evolved over the years. This project focuses on various physical and personality characteristics of female Disney characters, cross-referenced with the movie's release year and a character's representation as "good" or "evil."

## Awareness vs. Accuracy: The Depiction of Autism Spectrum Disorders in the Media

Undergraduate Student Project in Humanities  
Alexis Brown

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This presentation discusses Autism Spectrum Disorder (ASD) as it is represented in the media. After examining several stereotypical behaviors and characteristics that have been portrayed in media regarding individuals with ASD, information will be presented regarding the time period, inaccuracies, and shortcomings in video and television examples. Based on the evaluation and analysis of these examples, there is evidence that misrepresentations of ASD in the media have declined over time.

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AS-134A

Moderator: Jeannette Pifer

## Constantine's Basilicas: History and "Faith-based Learning"

Faculty Scholar Project in Humanities  
Dennis H. Cremin

Drawing on the speaker's research as a Lewis University Faculty Scholar, this presentation investigates how teaching and research enliven the study of 4th century Christian Basilicas. The preliminary work centers on a qualitative approach that involves a literature review. Students in an Ancient World course have been involved in this research, which has exposed them to historical interpretation. This project grew out of a "place-based" learning approach, but also raises questions about a "faith-based" topic.

## The Geography of Settlement and Race Relations Among Black and White Farm Owners in Georgia, Missouri and Arkansas

Faculty Scholar Project in Humanities  
Mark Schultz

In this presentation, a comparison of African American farm owners in Georgia and Arkansas will be presented. On closer examination, the political unity of the South masks sub-regional differences. After the Civil War, African Americans in Middle Georgia found that their only pathways to landownership passed through private white farm owners. As a result, they were frequently scattered among white farm owners, and even within the restrictions of Jim Crow culture, frequently developed intimate relationships with them. In contrast, African Americans in Arkansas were able to buy land directly from the federal government or from impersonal intermediaries like railroads or lumber companies. As a result, they settled in all-black communities with few contacts with white farmers.

# Session III

3:45-4:45 PM

AS-150A

Moderator: Jane Trainor

## The Use of miRNA as an Alternative to Chemotherapy

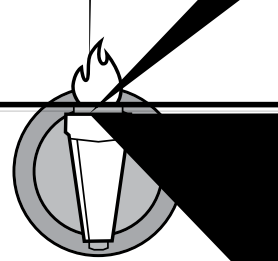
Undergraduate Student Project in Math/Science  
Leigh Smith

Small molecules miRNAs are used to control gene expression by targeting and degrading mRNA before translation. Cancer is characterized by abnormal gene expression with some overexpressed genes leading to increased cell proliferation. As an alternative to chemotherapy, miRNA could be used to suppress these types of genes, such as cyclin D3, which has been reported in human cancers.

## The Role of Metformin in Cancer Treatment

Undergraduate Student Project in Math/Science  
Joseph Sanavaitis

Metformin, a low cost anti-diabetic drug, has exhibited a positive correlation with the treatment of cancer. It is believed that Metformin may be used to increase apoptosis of transformed cells, while also decreasing proliferation and increasing cell specificity of common cancer treatment therapies. The use of Metformin along with cancer treatment could be groundbreaking in that it has the potential to improve results at a more affordable price.



AS-155A

Moderator: Dr. Lynn Tovar

## Predicting Government Systems

Undergraduate Student Project in Social Science  
Andres Mendez

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With the revival of democratic government in Europe during the late 19th and early 20th centuries, many scholars have provided various explanations for this socio-political phenomenon. As people in different nations around the world struggle for a more representative form of government, it is important to understand the factors that foster democratization. The degree of economic freedom, more specifically freedom of property, in a nation will determine the perpetuation of the current, or the adoption of a new, system of government.

## U.S. Foreign Policy: Knowledge and Opinions of Lewis Students

Undergraduate Student Project in Social Science  
Jake Garringer, M'Aggie Huggins,  
Ian Miller, Cody Owens, Eric Schmitz  
and Grant Marunde

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An examination of the knowledge and  
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AS-156A

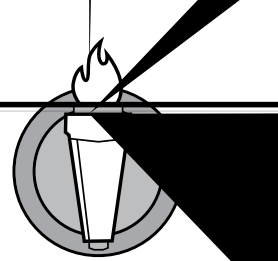
Moderator: Dr. Frank Rose

## Education a World Away

Undergraduate Student Project in Education  
Jenny Incekara, Haley Pyrkowski,  
Emily Wagner, Caitlyn Rodighiero,  
Cori Costello, Kimberly Voltaire and  
Kaite Maki

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Young children with enormous potential who have recently immigrated to the U.S. can struggle to succeed in the American educational system. While there are many documented factors that are known to hinder the success of these students, the purpose of this qualitative study was to learn about these factors from the perspective of the families themselves. Using participant observation and interviews, stories were gathered from individual families and then analyzed together to uncover themes,



**AS-157A**

Moderator: Linda Arnold

## Costuming Little Brother

Undergraduate Student Project in Performing Arts  
Jordin Richards

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This presentation examines the many steps in costuming a performance for the Philip Lynch Theatre.

## Concerted Accomplishment: An Exploration of Teaching and Learning Styles Through Children's Dance Classes

Undergraduate Student Project in Social Science  
Eva Gonzalez

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This is a qualitative study of teaching styles, using participant observation in a children's dance class. The students' reactions, behaviors, and demonstrations of movement are observed to note how dance students show newly learned concepts and abilities.

AS-158A

Moderator: Dr. Mary Woods

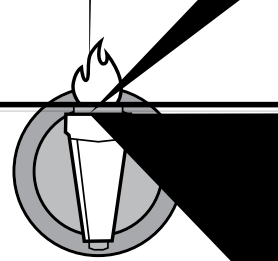
## The Virtual System Builder: An Artificial Intelligence Agent for Recommending System Configurations

Undergraduate Student Project in Math/Science  
Robert Dudasik

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Building a computer is a way to save money and to ensure that getting a computer that satisfies individual needs. There are many constraints to designing a custom computer like components' compatibility and the builder's budget, which are difficult to satisfy for the novice builder. To address this problem, an artificial intelligence agent program was built which will recommend a list of compatible parts that maximize the performance of the system given the user's specific requirements. This project is a part of the Artificial Intelligence Systems BulgorithmsntellFi





# Session IV

## 5-6 PM

AS-150A

Moderator: Robert Bergman

### How Street Performers Earn Your Entertainment Dollar

Undergraduate Student Project in Business  
Lauryn Amerio, Amanda Buenrostro,  
Jakob Gregorich, Joseph Pagel and  
Sylwia Pikul

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This project performed a marketing analysis of the strategies employed by street performers in Las Vegas to raise funds. After gathering data through direct observation, the various approaches street performers used were identified and their success measured.

### The Marketing of Street Begging

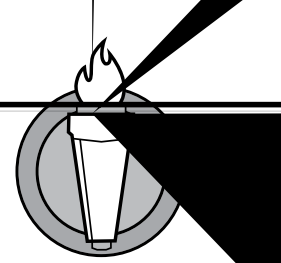
Undergraduate Student Project in Business  
Holli Kirsch, Carolina Pacheco,  
Cristina Pacheco, Catelyn Radtke,  
Lauren Stitz and Kellie Yonkers

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Street beggars employ a variety of marketing strategies to generate donations. This project identifies the various techniques street performers use. After beggars employ a variety of m

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AS-156A

Moderator: Dr. Christopher Palmi

## Does Exposure to Violent Video Games/Violent Media Lead to Criminal Behavior?

Graduate Student Project in Math/Science  
Erica Aranda

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The aim of this presentation is to develop a greater understanding of the relationship between violent video games and media and criminal behavior, an arguably long-term manifestation of increased aggression.

## If Terrorists Are Made

Graduate Student Project in Social Science  
Jared Ganley

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This presentation contains a historical survey of how inter-class manipulation plays a more significant role in radicalization than traditional narratives of conflict acknowledge.

## Analytics-Based Novel Cancer Diagnosis Techniques

Faculty Project in Business  
Dr. Ibrahim Mescioglu

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Business analytics professionals have implemented successful solutions for complex big data problems including management of healthcare data. This study explains the findings of a novel data mining technique developed for better prediction of cancer patients who are likely to experience post-treatment symptomatic pneumonitis.

AS-157A

Moderator: Linda Elsik

## Psychotherapy and Eating Disorders: Analyzing the Effects of Interpersonal Therapy with Teenage Girls

Graduate Student Project in Social Science  
Matthew Caston, Jr., Sarah Abbas,  
Nicole Carpenter and Bernice Anderson

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Students will discuss the effectiveness of Interpersonal therapy as a treatment for adolescent girls (from ages 12-17) suffering from severe eating disorders.

## One Size Does (Not) Fit All

Graduate Student Project in Social Science  
Megan Marcello, Jaclyn Conrad,  
Stephanie Pruefer, Abby Nelson and  
Elizabeth Villalobos

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Ethical code dictates that counselors should not practice outside of their theoretical orientation. However, research has shown that one theory does not fit all clients.

## Theoretical Approaches in Counseling for HIV Positive Adults

Faculty Project in Social Science  
Martha Jarmuz

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This project investigates the effectiveness and outcomes of four theoretical approaches utilized in mental health counseling for individuals infected with HIV.



AS-158A

Moderator: Richard Clish

## Critical Pedagogy in the Classroom

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AS-134A

Moderator: TBA

## Vernacular Cosmopolitanism of Rudyard Kipling and V.S. Naipaul

Faculty Scholar Project in Humanities  
Pramod Mishra

The aim of this paper is to investigate the implications of language use in V.S. Naipaul and Rudyard Kipling in light of the emerging trend in literary studies to examine the local in the global and the global in the local, the vernacular in the cosmopolitan and the cosmopolitan in the vernacular. Scholars have accused both writers of looking at colonized peoples with condescending imperial eyes. Through examining the language and sensibility of their earlier works, this paper explores how close these writers were to the idiom of the poor and the helpless about whom they wrote and whose language they used in their works. The challenge is offered to reexamine these widely reviled writers' work from a fresh perspective to get to the heart of how meaning and message in literature emerges as a result not only of a writer's explicit political pronouncements and surface portrayals but use of language grounded in people's fractured lives in a colonial and postcolonial period.

## Coming to VOICES: Building a Student-driven Movement Against Sexual Assault

Faculty Scholar Project in Humanities  
Dr. Tracey Nicholls

This presentation will offer an overview and analysis of the process through which VOICES (Vision-Oriented Intervention for Campus Equity and Safety), an educational initiative linking student safety and responsibility in social situations to Lewis mission values, developed from a student project to a recognized student organization. This development is relevant to LaSallian scholarship because VOICES invites students to commit themselves to being empowered participants in a broad-based social movement endorsing norms of respect, ethical sexuality, and intervention into social situations to preserve the safety and well-being of others; the culture of bystander intervention it fosters is, in essence, one way of practicing citizen engagement. Since its emergence in April 2013, the group has focused on bystander intervention training to motivate a more proactive campus culture. This presentation's particular emphasis will be on the package of curricular and extra-curricular events and teaching activities the group has developed, and the knowledge and best practices we hope to share with other universities organized around similar values-based cultures.



Where Are All the Teachers  
of Color?: Examining Trends  
in Recruitment and Retention  
of Teachers of Color

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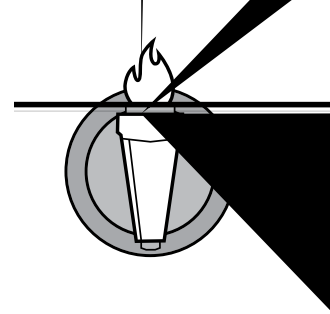
# CREATIVE WORKS

(See Presenters Index on Page 69)

Art Exhibits (1- ) **31**

Performances/Reading (2- ) **33**





# Exhibits

## 1-6 PM

### Nurses' Shared Prayers

Faculty Project in Nursing  
Dr. Kathleen Blanchfeld,  
Melanie Obispo-Young, Sandra Razka  
and Nanci Peek

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Creating a prayer and sharing it is a powerful means of connecting with God and others. Prayer gives words to expressions of gratitude, praise, need, desires, emotions, and hoped-for visions.

### Solar Energy Sculptures

Undergraduate Student Project in Visual Arts  
Devynn Cerda, Michelle Hutchison,  
Lauren Kill, Nicole Nepote,  
Nicolas Perrino, Briana Reidy, and  
Kristen Silvey

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This project's aim and goal is to create a set of sculptural models that are designed to function as outdoor solar collectors and indoor radiators.

### #NoFilter

Undergraduate Student Project in Visual Arts  
Elizabeth Lopez

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This is a self-portrait created using oil paint for the purpose of illustrating the importance of confidence, inner beauty, and an attempt to send the message that filters and makeup are not needed for one to show his or her beauty.

### Homeless Man

Undergraduate Student Project in Visual Arts  
Larissa Barnat

---

Walking around downtown I was looking for people to photograph. I came across a homeless man and he said, "I'll sell you chips for a dollar." This moment in time stayed in my memory as I was looking for resources to paint, so I decided to turn the photo into a painting.

## Rusty Rightover

Undergraduate Student Project in Visual Arts  
Nikki Nellen

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Rusty Righter started out as just a plain piece of masonite with a white base on it. I was given a bunch of free paint from Rustoleum and had no idea what I was going to do with it. Inspired, I began just pouring the paint on the masonite leaving some of the paint cans on the masonite to help guide the paint. I also made sure not to shake or mix the paint in the can because I wanted the effect that is created from the settling of the paint material, how when you poured it the clear glaze came out first and then the paint. The clear glaze also helped guide the paint throughout the masonite. Once the paint was tacky, I took my water bottle and started throwing water at certain spots to help spread the paint. I was planning on letting the paint dry and was going to put a lot more detail in it but by the time the paint dried I enjoyed the way it looked and left it alone!

## Process of Waves

Undergraduate Student Project in Visual Arts  
Brittany Bishop

---

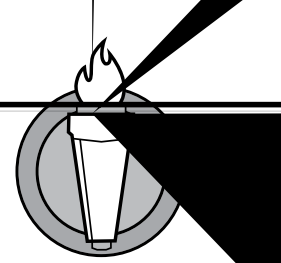
Made out of an old speaker, this piece has five surfaces of mental and musical imagery. It stands about 3 1/2 feet tall, and plays with the idea of the similarity between waves of sound and those of the brain. It was created with mixed media including acrylic paint, spray paint, colored pencils, and chicken wire.

## Shadow 2

Undergraduate Student Project in Visual Arts  
Catherine Kelly

---

Shadow 2 is created from ebony pencil on crescent board. To prepare for the drawing I took a photo of myself as my primary resource. When conceptualizing this drawing I envisioned the figure emerging from the dark background. By using a singular light source, I depicted the figure reaching out toward the viewer.



# Performance

## 2-4 PM

### There's No Such Thing as Literacy

Undergraduate Student Project in Education  
Christopher Hueg, Stephanie Hernandez  
and Kelly Langert

---

This session features three teacher-candidates reading/performing their literacy narratives—each of which is distinct, as distinct as each student is from the other, suggesting, indeed demonstrating, that the term “literacy” is a misnomer. There are only literacies—plural—intimately bound to each individual and individual experience and context, importantly reminding teachers, that each student experiences “literacy” and curriculum and pedagogy and instruction in truly distinct and lasting ways.

### The Use of Creative Writing Prompts as a Generative Device to Unearth Imaginative Intelligence

Undergraduate Student Project in Humanities  
Symone McCoy and Sabrina Parr

---

These fictional works were based on two creative writing prompts and they convey the differences concerning realist fiction versus fabulist fiction works.

### John Milton's Paradise Lost: How Milton Portrays Sinister Satan as an Epic Hero

Undergraduate Student Project in Humanities  
Brianna Harris

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LEWISIU



# POSTERS

(See Presenters Index on Page 69)

Session A (2 0- 0 ) **37**

Session B ( - ) **46**

Session C ( - ) **56**

# Session A

## 2:30-3:30 PM

### ▮ The Truth on Ebola

Undergraduate Student Project in Math/Science  
Abigail Mircu

---

In the past fall, “Ebola” was a word heard by every American who watched the nighttime news, listened to a radio talk show, or opened the Sunday morning newspaper. The purpose of this project is to share the concrete facts on this devastating disease which has affected so many people worldwide.

### ▮ Bring in Some Literacy with a Little Math History!

Undergraduate Student Project in Education  
Jaclyn Kenyon and Nicole Ware

---

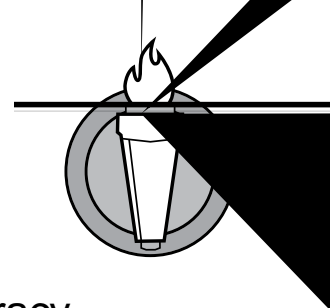
The focus of this study is on finding the benefits of bringing in historical concepts into an average math classroom. The aim is to find techniques to use in mathematical practices.

### ▮▮ Characterization of Silicon Solar Cell

Undergraduate Student Project in Math/Science  
David Santefort, Arielle Floyd,  
Heather Ray and Lucas Kilmer

---

Solar cells, or photovoltaic cells, are used to produce electricity from the sun’s light energy. Current vs. voltage curves, or IV curves, are generated for a silicon solar cell to compare the maximum power and solar cell efficiency under various conditions. These include varying the incident light intensity, incident angle, and incident wavelength (color).



## Healthy People 2020: Maternal/Infant Initiatives

Undergraduate Student Project in Nursing  
Ann Favia

This project explores four health promotion initiatives that are enhancing the health and wellness of mothers and infants in the U.S.. These initiatives have been recognized by Healthy People 2020.

## Four Pics, One Word?: Vocabulary Games and Activities to Enhance Academic Language Usage

Undergraduate Student Project in Education  
Justina Doll, Anthony Martinez,  
Dylan Hudgins, Christopher Blogg,  
Urtan Rrahmani and Tiffany Albers-Lopez

The teaching and assessment of academic language is a major component of the new content standards and teacher performance evaluation. This study describes the development and testing of a variety of instructional strategies for teaching and reinforcing the proper usage of academic language.

## It's Easy Being Green

Undergraduate Student Project in Math/Science  
Kirsten Rothenbucher,  
Tommy Cornes, Michael McAuliffe,  
Tim Fitzgibbons, Chris Carter,  
Colin Jecha, Kristen Dykema,  
Kristin Lodygowski, Jeremy Hutton,  
Kyle Main, Joseph McDermott and  
Sarah Papiez

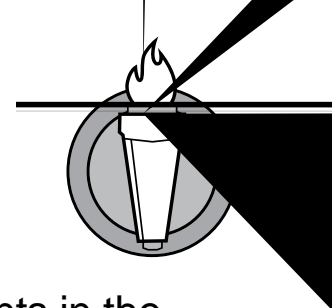
Green roofs on campus can make use of the wasted, energy-absorbing space that resides there now. The purpose of this study was to identify campus rooftops that can be improved.

## Feasibility of an Organics Futures Market

Undergraduate Student Project in Business  
Marzell Richardson

This feasibility study is to determine if a futures market based on organics is viable.





## Social Studies: The Students' Perspective

Undergraduate Student Project in Education  
Anthony LaRocca

---

This study includes an investigation into how current students view the importance of social studies. What do they like, what do they dislike, what should be changed? It is based on recent research and comprehensive surveys of Lewis students.

## The Effects of Exercise as an Early Intervention for Parkinson's Disease

Undergraduate Student Project in Math/Science  
Kimberly Zaleski

---

This presentation is a literature review that discusses exercise as an intervention for patients who have Parkinson's disease.

## Mexican Immigrants in the U.S.: Policy Recommendations

Undergraduate Student Project in Humanities  
Brandy Bailey

---

As Mexican immigrants continue to migrate to the U.S. due to the current position in globalization, it is vital that immigration policy reform occurs, reflecting upon the causes and consequences of previous, ineffective policies.



## Politics of Incarceration

Undergraduate Student Project in Social Science  
David DeSchepper

---

This study focuses on how Red State and Blue State politics affect the rate of incarceration in the United States per state.

## The Effects of Parental Incarceration on Student Behavior and Academic Performance

Undergraduate Student Project in Education  
Lindsey Jones and Tanya Burcenski

---

This presentation focuses on the effects of parental incarceration on a child's behavior and academic performance. Based on extensive research conducted through research databases and academic journals, the presenters have examined the effects that parental incarceration has on children, as well as methods or teaching strategies that will assist educators when working with these students.

## Premature Birth: Acute and Chronic Results

Undergraduate Student Project in Nursing  
Ashley Killian

---

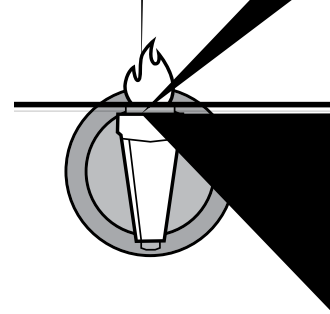
Premature birth is a continued concern in the United States. The resultant morbidity was the primary emphasis of this project. A literature review of how the nurse can positively impact long-term outcomes through quality Neonatal Intensive Care Unit (NICU) care was conducted.

## English Language Learners in the English Classroom

Undergraduate Student Project in Education  
Kelly Langert

---

With increasing numbers of ELL students in elementary and secondary education, differentiation of instruction and assessment is essential. The presentation examines the progression of ELL students in English classes and how teachers can accommodate these students.



## Micro-RNAs and its Role in Cancer

Undergraduate Student Project in Math/Science  
Eyas Mousa

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.

is presentation aims to discuss the mechanisms of miRNA expression and dysregulation, and the correlation between miRNA dysregulation and cancer.

## The Ghost of Hamlet, “To Be or Not To Be, the Devil?”

Undergraduate Student Project in Humanities  
Yolanda Pena

---

.

is poster presentation is based on a research paper.

## Anthropogenic Fingerprint in Global Warming

Undergraduate Student Project in Math/Science  
Theodore Karamanski

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is project presents the empirical evidence that human

## Respiratory Syncytial Virus

Undergraduate Student Project in Nursing  
Caitlyn Greminger

---

Respiratory Syncytial Virus (RSV) is a common virus that can cause serious respiratory infections in neonates. This project investigates the virus itself, its method of transmission, the clinical features of the disease, and the treatment options available to patients with RSV infections.

## Adaptive Game Boards: Meeting the Needs of Unique Learners

Undergraduate Student Project in Education  
Kasey Stelmaszek

---

This research focuses on researching and developing a low tech assistive game board that will meet the needs of students with fine motor difficulties and/or sensory needs. It investigates what adaptations will successfully accommodate these students. This game board will help students enhance their learning and interact with others.

## Mastermind and Variations

Undergraduate Student Project in Math/Science  
Michael Smith

---

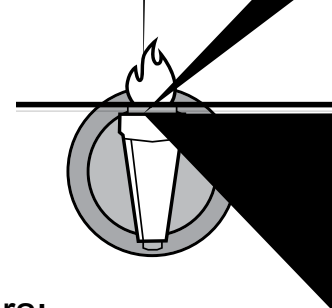
This project looks at the mathematics behind the code-breaking game Mastermind and also some variations of the game.

## Social Rule Cards: Assisting in Communication

Undergraduate Student Project in Education  
Kalina Matt

---

This project shows research that supports the use of social rule cards and provides examples for teachers to use to prompt communication for students with autism in the classroom.



## System for Information Security Education and Real-Time Awareness (SISERTA)

Undergraduate Student Project in Math/Science  
Steven Day

---

This project developed a training and visualization platform that can help future cyber security professionals prepare to meet the challenges facing cyber security operators and to understand more readily the vulnerabilities and threats confronting their systems. The real-time visualization tool provides current operators a unique visual perspective into the cyber health of their systems using color-coding and contouring.

## Graphic Organizers: Eliciting Improvement Among Students with Speech and Language Disorders

Undergraduate Student Project in Education  
Jessica Ruiz and Caitlin Kosteck

---

This is an exploration of graphic organizers as an assistive technology tool within education. Graphic organizers have shown to be an effective assistive technology tool for students with language impairments. When using graphic organizers students recall information better, improve their reading comprehension, and increase their process writing and thinking skills.

## Age-related Macular Degeneration Due to Accumulation of Lipofuscin in Retinal Pigment Epithelium

Undergraduate Student Project in Math/Science  
Lukas Jakobonis

Age-related macular degeneration is the main cause of deterioration and loss of vision in the elderly. One theory regarding the cause of retinal damage is the accumulation of lipofuscin, an insoluble aggregate that collects in the lysosomes of the retinal pigment epithelium over a lifetime. Research centers on developing treatment options that may promote the ability to degrade, expel, or prevent the formation of lipofuscin.

## Underlying Factors of Motivations to Read

Undergraduate Student Project in Education  
Kelsey O'Brien

The research conducted focuses on the home and school environments of students and their various introductions to books and other readings. The aim is to use this information to construct methods that would turn their motivations to read into positive ones.

## Dark Box Project

Undergraduate Student Project in Math/Science  
Zachary Arcara and Anthony Smithwick

The aim of this project was to construct a box that was completely light proof so that no light was getting inside the box. Tests were done throughout the construction to prove that the box seals out all light.

## What's the Line?

Undergraduate Student Project in Nursing  
Marikate McCann,  
Corinna Szczeblewski-Auten,  
Matthew Kulhanek, Jessica Jones,  
Ariel Miller, Amanda Horvatin,  
Alex Dewitt and Jessica Lisak

In this project, a group of Lewis University nursing students collaborated with the staff of a large metropolitan Chicago medical center to institute a change in procedure related to central venous catheters. An evidence-based practice booklet was developed for the policy and procedures of each type of central line. With this booklet, the goal is to provide better care quality and patient safety.



## Get “Fired Up” About Field Trips: Accessibility Needs at the Aurora Regional Fire Museum

Undergraduate Student Project in Education  
Theresa Werbiansky, Kaitlyn Thompson,  
Kaelyn Williams, Sara Mazan,  
Jocelyn Dowjotas and Zainab Aladin

---

is work of service learning attempts to make the Aurora Regional Fire Museum more accessible for students who have physical, emotional, and intellectual disabilities as well as English Language Learners. is poster will demonstrate applications to enrich the experience of all eld trip attendees at the museum.

## Teaching About Ableism Through Literature

Undergraduate Student Project in Education  
Kelly Cisco and Michael Jaeger

---

University professors and teacher candidates explored ableist frames and stereotypes found in children's/young adult literature.

## Extraction-Induced Endocarditis

Undergraduate Student Project in Math/Science  
Mutasem Daineh

---

Many bacteria that commonly inhabit the human oral cavity are capable of causing diseases such as endocarditis, if introduced into the bloodstream in high enough numbers. e following study is an investigation into the pathogenesis of extraction-induced endocarditis, and the current state of treatment options that exist.

## Use of Futures Markets to Forecast Future Equity Index Values

Undergraduate Student Project in Business  
Alex Hallahan and Kelly Bowler

---

e aim of this research is to determine if U.S. equity index futures markets provide a satisfactory forecast of future cash market equity index values.

# Session B

## 3:45-4:45 PM

### XX vs. XY

Undergraduate Student Project in Education  
 Alyssa Malzone, Maggie Ciezobka,  
 Colleen Wereldsma and  
 Leanna Pitsoulakis

This project highlights the gender inequalities within STEM (science, technology, engineering, and math) higher education classrooms. The project aimed to determine whether or not Lewis University matched the national averages of women represented in STEM.

### Yoga for Chronic Pain

Undergraduate Student Project in Nursing  
 Brooke Jessen

Complementary and alternative therapies for chronic cancer pain patients is becoming increasingly popular in conjunction with pharmacological management. The study of yoga for pain control is one method of complementary therapy. The research was directed toward yoga as a specific form of therapy to increase patient outcomes and improve chronic pain management.

### Preventing Mutations in the P53 Gene Can Help Prevent Cancer

Undergraduate Student Project in Math/Science  
 Taha Ghoulah

Research has shown that mutations can alter the normal function of the P53 gene. This research investigates implications of P53 gene mutation on cancer.





## Academic, Sexual, & Social Pressures of Adolescent Boys and Girls

Undergraduate Student Project in Education  
Hayley Rife, Urtan Rrahmani,  
Ashley Olsen and Brianna Harris

---

This study examines the types of pressures adolescents face and how those pressures differ between males and females. By conducting this research, the aim is to determine what boys and girls, from twelve to twenty years of age, experience regarding sexual pressures, relationship issues, and the stress of growing responsibility.

## The Past, Present and Future Outlook of Engineering the Perfect Influenza Vaccine

Undergraduate Student Project in Math/Science  
Fiona Costello

---

Beginning with the detrimental effects that the Spanish Influenza had on the world population in 1918, up until the more recent deadly influenza outbreaks world-wide, the need for a more efficient vaccine is evident. Discovering a vaccine that will allow people to receive a vaccination once every 5 to 10 years

## When Worlds Collide - A Look into How RTI is Blurring Together General and Special Education

Undergraduate Student Project in Education  
Mary Fisher

---

This research project focuses on Response to Intervention, what it is, and how pre-service teachers feel about applying this intervention program in their future general education classrooms.

## Immense Price Volatility in the Crude Oil Derivatives Market – Do Speculators Get In or Get Out?

Undergraduate Student Project in Business  
Michal Pawlowski

---

This presentation is an extensive analysis of the link between crude oil price volatility and investor participation in the derivatives market.

## Improving Oil Well Extraction Efficiency with the Use of Microorganisms

Undergraduate Student Project in Math/Science  
Kaitlyn Curtis

---

Microbial enhanced oil recovery (MEOR) is a microbial technique used to gain additional oil from oil wells. MEOR may provide a temporary solution to sustain the use of oil as a resource until a large scale switch is made to use other energy sources.

## Fired Up for Field Trips

Undergraduate Student Project in Education  
Brianna Boseo, Georgia Lolis,  
Samuel Han, Kristin Schoenle  
and Beata Papierz

---

In this research, surveys were conducted to identify field trip and curriculum needs and challenges for the Aurora school districts.

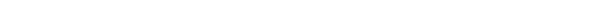


# The Interaction of Particles with an Alcubierre Warp Bubble

Undergraduate Student Project in Math/Science  
Sean Lillis

---

.  
is project utilizes the powerful functions



## Decision-making Policy Guidelines Regarding Plagiarism

Faculty Project in Nursing  
 Dr. Stacie Elder, Dr. Kathleen Fitzgerald,  
 Dr. Suling Li, Dr. Janice Smith, and  
 Dr. Gwen Svoboda

Plagiarism is a serious issue in institutions of higher learning in the United States. While there are university and program policies on plagiarism, the interpretations of the policies vary greatly among individual faculty. A faculty task force developed an operational definition of plagiarism, distinguishing three levels of plagiarism with examples and consequences for each level, based on an extensive literature review, examination of policies and practices of other universities, and utilizing the current standards of the CONHP and the publication manual of the American Psychological Association.

## Aurora Fire Museum Creative Resource List

Undergraduate Student Project in Education  
 Jayna McHugh and Greg Arata

Using a meta-analysis chart format, this project created a list of supplemental reading materials pertaining to fire safety and the development of fire safety procedures. This resource contains a list of books and their educational source and analysis information to be used in tandem with a visit to the Aurora Regional Fire Museum.

## Characterization of Alumina Boehmite Sol Gel Using Fourier Transform Infrared Spectroscopy

Undergraduate Student Project in Math/Science  
 John Hodul and Zach Struzik

This study describes how boehmite (monohydroxy aluminum oxide, AlOOH) when placed under acidic or basic conditions has the ability to form a sol gel matrix which can be characterized via Fourier Transform Infrared Spectroscopy and other methods.



## Technology's Role in Adolescent Literacy Development and Teacher Education

Undergraduate Student Project in Education  
Dylan Hudgins

---

Lately, the issues of poor adolescent literacy and how to better prepare students for future demands have been at the foreground of discussion among educators. This poster presentation will cross-examine the results of an interview with a current high school student about technology literacy to a survey given to college students about the same. Inferences will be made about how well their high schools have prepared them and how to bolster student literacy in the future.

## Prescription Polysulfated Glycosaminoglycan vs. Over-the-Counter Glucosamine and



## Heating up the Classroom: Providing References for Fire Safety Instruction

Undergraduate Student Project in Education  
Alexis Brown, Mia Caponi,  
Paige Podgorny and Alyssa Van Gampler

---

Elementary teachers who want to incorporate fire safety into their curriculum are in need of valid and reliable resources. In order to solve this issue, reputable resource websites will be found and evaluated for teacher reference.

## Deforestation and its Effect on the Average Global Temperature

Undergraduate Student Project in Math/Science  
Brittany Czartoryski

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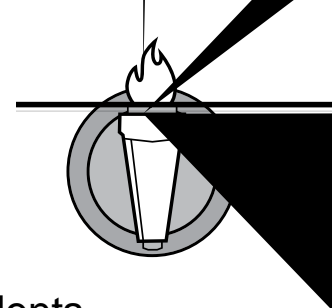
Deforestation is by far the biggest problem that is causing an increase in global warming. As a result of changes in land cover, biodiversity properties change and patterns such as temperature and the water cycle are affected. This project will explore models such as Weather Research and Forecasting Model, Vertically Integrated Moisture Flux Convergence (VIMFC), General Circulation Model (GCM) and Characteristic Length Scale (CLS) to examine how patterns of the hydrologic cycle are changing.

## Exploring Video Games in the Context of Visual Literacy

Undergraduate Student Project in Education  
Marquis Butler

---

This presentation explored ways that video games can be used as a type of visual literacy in the classroom.



## The Regulation of Prostate Cancer Through Polyunsaturated Fatty Acid Supplementation

Undergraduate Student Project in Math/Science  
Nicholas Pitsoulakis

---

Prostate cancer is one of the leading causes of cancer death among the elderly male population. Polyunsaturated fatty acid (PUFA) supplementation has been clinically shown to play a role in the regulation of these cancerous cells.

## Providing for Students Without a Stable Home

Undergraduate Student Project in Education  
Alyssa Van Gampler

---

It is important for future educators to be well informed about homeless students in their classrooms. Research was conducted to provide insight on how future educators can prepare for a homeless student.

## Orientalism Through the Ages

Undergraduate Student Project in Education  
Christopher Hueg, Bianca Apato,  
Theresa Marten and Delia Ercoli

---

This project focuses on literary theory and its influence on Orientalism. Through the project, presenters researched different mediums and scholars of the theory and how it applies to literature.

### Identification and Characterization of the Antibiotic Susceptibility of Bacterial Isolates Taken from Cell Phones

Undergraduate Student Project in Math/Science  
 Penelope Strid, Elizabeth Harden Justin Ramotowski, Jessica Kaluzny and Haleigh Saari

This study identifies to the species level and characterizes the antibiotic susceptibility patterns of several bacterial isolates acquired from different cell phones.

### Use of Evidence-Based Practice

Faculty Project in Nursing  
 Dr. Kathleen Fitzgerald, Anne McShane and Dr. Jean Lytle

The purpose of this study was to identify whether an educational intervention for clinical faculty on the use of Evidence-Based Practice (EBP) teaching strategies would result in a perceived increased use of EBP by undergraduate nursing students in the clinical practice setting.

### Identification and Characterization of the Antibiotic Susceptibility of Bacterial Isolates Taken from Cell Phones

Undergraduate Student Project in Math/Science  
 Nada Elsayed, Justin Ramotowski, Brianna Hopp and Haleigh Saari

This study identifies to the species level and characterizes the antibiotic susceptibility patterns of several bacterial isolates acquired from different cell phones.

### How Ableism is Viewed in Post-Secondary Education

Undergraduate Student Project in Education  
 Jackie Harmon and Aubrey Miller

This presentation focuses on research conducted to investigate the views and knowledge of post-secondary students on the topic of Ableism.





# Session C

## 5-6 PM

### The Problem with Pronouns: Understanding Transgenderism and Other Gender Queer Concepts

Graduate Student Project in Social Science  
Caitlin Slattery

---

This project will attempt to familiarize the general public with basic information on transgenderism and gender queer concepts, including accepted terminology



## ▣ Implications and Interventions for Transgender Children and Adolescents in School Settings

Graduate Student Project in Social Science  
Donna Lordi

---

Cultural awareness regarding transgender individuals and their needs is increasing in popular society. Despite this, many people in this population still face persecution and inequality—particularly in school. This presentation is a review of interventions for counselors and educators to make use of in a school setting to reduce abuse and persecution for these students by increasing awareness and providing a safe environment.

## ▣▣▣ Caring: The Foundation and Defining Factor of Nursing

Graduate Student Project in Nursing  
Angeline Brooker

---

This presentation offers an in-depth analysis of the concept of caring in nursing, in relation to the caring theory of Jean Watson. In a world which is integrating more technological aspects for patient care and higher acuity statuses, nurses may lose sight of the value a true “caring” encounter can produce. The purpose of this analysis is to explore ways to identify and understand caring in nursing and other implications for practice. This presentation also demonstrates ways to recognize opportunities to apply Watson’s caring theory in improving everyday nurse-patient encounters.

## ▣▣▣ Blurred Lines

Graduate Student Project in Social Science  
Rebecca Liebermann, Jennifer Lagowski,  
Michelle Mosca and Kathy Hettinger

---

This presentation provides case studies and ethical decision making-models to introduce possible “blurred lines” when faced with ethical dilemmas while working with adolescents. Issues will be viewed through the ACA Code of Ethics.

## Gender-Related Differences in Moral Development

Graduate Student Project in Education  
Krystyn Misheck

---

The focus of this investigation is to review past literature to address the ongoing dispute over gender differences in moral development, taking into consideration the functioning of social-cognitive systems.

## Potential Ethical Risks in Counseling Transgender Clients

Graduate Student Project in Social Science  
Stephanie Herrera, Lorena Perez and Sinar Steele

---

This study identifies issues and ethical concerns, reviews the therapeutic process and normalizing the client decision for sex change, the correlation between counseling transgender clients, and the ACA Code of Ethics.

## The Perpetuation of Gender Constructs in 'A Midsummer Night's Dream'

Undergraduate Student Project in Humanities  
Kelly Lyons

---

This poster presentation analyzes gender constructs in Shakespeare's "A Midsummer Night's Dream." It uses scholar Louis Montrose's work and the literary theory of new historicism to establish the connection of gender constructs between the text and the culture of the Elizabethan time period. It also uses current references to show how the text continues to perpetuate traditional gender construction even in modern society, and explain why this is problematic.



## Potential Disruptions to the Therapeutic Counseling Alliance: An Examination of Gender, Religious, and Cultural Influences

Graduate Student Project in Social Science  
Dipa Patel, Katrina Adkins, Donna Lordi  
and Wendy Spikings

---

There are many potential disruptions in forming a strong therapeutic alliance in a psychotherapeutic relationship between client and clinician. This research is an exploration of some common factors of which practitioners should remain aware in their work.

## Evidence and Ethics in Prescribing Medical Marijuana

Graduate Student Project in Nursing  
Sheila McGreal

---

This white paper addressed the evolving evidence and ethical considerations associated with prescribing medical marijuana. APRNs need to be at the forefront of providing accurate and current therapy options to patients and are uniquely positioned to influence healthcare policy. This poster presentation provides an overview of the evolving evidence on the use of medical marijuana in practice, and the ethical and legal issues associated with this prescriptive therapy.

## Cultural Awareness in Ethical Decision Making

Graduate Student Project in Social Science  
Yaa Afriyie, Jennifer Driscoll  
and JeTaun Jones

---

This project addresses the importance of cultural awareness and diversity training in ethical decision making for counselors in training.





## Peer Mentoring

Graduate Student Project in Nursing  
Darlene Trendl, Toya Johnson,  
Karen Uribe and Lissete Martinez

---

The purpose of this project is to examine the concepts related to mentoring and to develop and implement a mentoring program for undergraduate nursing students.

## To Tell or Not to Tell, That is the Question

Graduate Student Project in Social Science  
Azra Husain and Brandy Garland

---

Confidentiality for minors in a counseling setting is an area that presents many ethical challenges. Self-harm is considered to be one of those areas of uncertainty for counselors. This research will discuss the pros and cons of disclosing the self-harming behaviors of minors to their guardians.

## Illustrating Comprehension: Incorporating Graphic Novels into the English/ Language Arts Curriculum

Graduate Student Project in Education  
Christopher Hueg and Caitlin Slattery

---

This presentation focuses on graphic novel inclusion in the classroom. The presenters will outline the function and components of graphic novels, explain the benefits of utilizing this “new” text form in the classroom, and provide resources and activities for educators.

## An Examination into the Ethicality of Illinois’ Firearm Owner Identification (FOID) Card Mental Health Reporting

Graduate Student Project in Social Science  
Katie Cornyn and Jessica Johnson

---

The purpose of this presentation is to examine the new Firearm Owner Identification Card (FOID) Mental Health Reporting law that took effect in 2013. Specific to this presentation, it addresses the ethicality of the new mandated reporting system.

## Treating Hypertension in the Frail Elderly

Graduate Student Project in Nursing  
Patricia Braida

---

After a preliminary review, it was determined that there is little evidence that guides treatment of the frail elderly over the age of 80 who have hypertension. This population is especially vulnerable to falls secondary to the hypotensive effects of their blood pressure medications. Recommendations for further study will be explored in the poster.

## Proactive Coping Strategies Involved in Ethical Decision Making

Graduate Student Project in Social Science  
Stephanie Magdic, Vincent McAuliffe  
and Patricia Martinez

---







## Play Therapy Techniques

Graduate Student Project in Social Science  
Ashley Dotson, Maria Martinez

---



## Anxiety in Adolescents and the Use of the Interpersonal Process Approach in Treatment

Graduate Student Project in Social Science

Yenny Sanchez, Sarah Barrera,  
Angelina Rotar and Anthony Moreno

---

This presentation examines the association between the adolescent population and the treatment of anxiety with regards to an Interpersonal Process Approach.

## Recovery Therapy in the Psychiatric Outpatient Setting

Graduate Student Project in Nursing

Rubie Rose Costales

---

This poster presentation is a research proposal of the application of the Recovery model in the psychiatric outpatient setting and its potential effects on readmission rates and perceived levels of depression.

## Leadership Development for Accelerated BSN Students


Graduate Student Project in Nursing

Suzanne Lonngren and Cori Lester

---

Nursing needs strong professional leaders. Leadership education and development at the BSN level is critical. With a goal to introduce students enrolled in the BAC to BSN program to leadership skills, a four module program was designed, implemented and evaluated as a series of seminars.



 Surgical Safety Checklists:  
Impact on Patient Satisfaction  
Scores, Safety, and Surgical Sta

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# Presenters Index

## A

Abbas, Sarah **26**  
Abraham, Victoria **13**  
Adkins, Katrin

E

- Earnest, Andrea **15**
- Elder, Dr. Stacie **50**
- Elsayed, Nada **54**
- Ercoli, Delia **53**

F

- Fallahi, Dr. Mitra **24**









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Co-Chair, Posters

Dr. Tracey Nicholls  
Co-Chair, Special Events

Dr. James Rago  
Co-Chair, Concurrent Sessions

Dr. Clare Rothschild  
Co-Chair, Special Events

Dr. Lauren Rentfro  
Co-Chair, Posters

Je Ritchie  
Co-Chair, Awards

Dr. Frank Rose  
Abstracts

Lisa Salazar  
Chair, Hospitality and Venues

Mark Swain  
Chair, Creative Works

Sal Ursino  
Chair, Marketing and Communications

Betsy Wilber  
Co-Chair, Concurrent Sessions

