SCHOLARSHIP

April 19, 2012

Dear Colleagues:

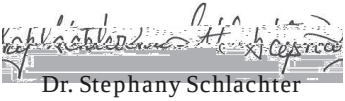
The idea of a University-wide celebration of scholarship has been discussed for many years. The leadership and dedicated efforts of many individuals and groups across the University have made this dream a reality. Thank you to all who have planned so well for this *Celebration of Scholarship* and congratulations to the many students, faculty and staff participants whose work is being showcased today.

This event reflects well the strong commitment by faculty to promote student learning and mentorship and to pursue excellence in teaching, scholarship, and research. Founders Week is a most fitting time for the inaugural *Celebration of Scholarship* in that it so well reflects our Mission focus on student learning and academic excellence.

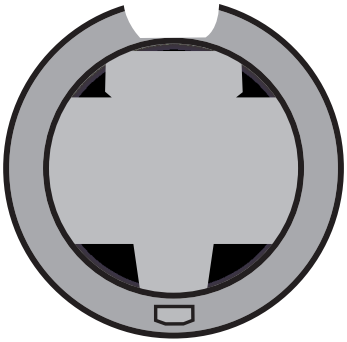
Faculty have long recognized the importance of sharing their scholarship and research with their students and in encouraging them to participate in these projects. These collaborative initiatives present new and creative ways of helping students learn. Student engagement in scholarly work during their undergraduate and graduate studies is increasingly acknowledged among high impact learning initiatives. Projects like these open doors for our students to exciting careers, graduate school opportunities and endless new possibilities.

Thank you to all for the spirit of Association that characterized 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. Congratulation on your efforts on behalf of the institution and all of our students.

Sincerely,

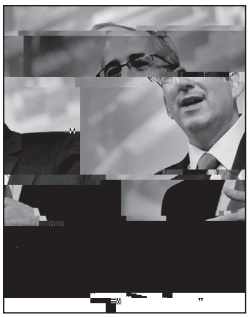


Dr. Stephany Schlachter
Provost



SCHEDULE

SESSION	IME
Plenary Session	12:30-1:45 PM
Concurrent Paper Presentations (Session I)	2-3 PM
Concurrent Paper Presentations (Session II)	3-4 PM
Concurrent Paper Presentations (Session III)	4:30-5:30 PM
Concurrent Paper Presentations (Session IV)	5:30-6:30 PM
Poster Presentations	12:30-6:30 PM
Meet Authors (Session I)	3:30-4:30 PM
Meet Authors (Session II)	4:30-5:30 PM
Creative Works Sessions	2-4 PM
President's Reception	7-8 PM



D M

S

21 C

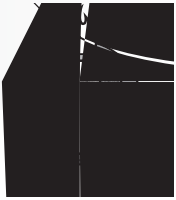
12:30 - 1:45 p.m.
Sancta Alberta

Eric D. Isaacs, a prominent University of Chicago physicist, is President of UChicago Argonne, LLC, and Director of Argonne National Laboratory.

Before becoming Argonne Director, Isaacs served as Argonne's deputy laboratory director for programs, with responsibility for leading the laboratory's strategic planning process and overseeing the laboratory directed research and development program as well as its educational programs. Earlier he distinguished himself both as director of the Center for Nanoscale Materials at Argonne and as professor of physics in the University of Chicago's James Franck Institute. During his 13-year tenure at Bell Laboratories, he was a member of the technical staff, director of the Materials Physics Research Department and director of the Semiconductor Physics Department.

He received a Ph.D. from the Massachusetts Institute of Technology in 1988 in the area of magnetic semiconductors and was a postdoctoral fellow at Bell Laboratories (1988-1990) studying magnetism and correlated electronic systems, mostly with synchrotron-based X-ray techniques. He is a fellow of the American Physical Society and served on a number of national scientific advisory committees, including the Basic Energy Sciences Advisory Committee. He is author or co-author of more than 140 scientific papers and presentations.

Dr. Isaacs received an honorary doctorate from Lewis University in December 2009.



Service Learning as a Tool for Nursing Education

Nicole Serdena, Brittany Conrad, Wendy Mazariegos, Caitlin Murach, Kaleigh Nolan, and Brittany Russo

Room 231

MODERATOR
Mrs. Sue Forbes

Blood Vessel Repair with the Use of Vascular Endothelial Growth Factors and Angiogenesis

Kris Nadarajah

DHEA Supplementation

SESSION II: *3-4 p.m.*

Room 202

MODERATOR
Dr. Sue O'Brien

A Study of Factors Contributing to BMO's Prominence in the Derivatives and Capital Markets

Nick Ernst

The Effects of a Mega-dump on an Illinois Community – an In-Progress Report

Dr. George G. Klemic, Jonathan Hicks; Robert McGowan, Benjamin Potter, and Jennifer Prokop

Freedmen to Farm Owners: Tracing Emancipated People's Varied Pathways to Land Ownership

John B. Dembowski

Room 203

MODERATOR
Ms. Nanci Peek

Rapid Expansion of Invasive [illegible] Disrupts Native Ecosystems

Danielle Mount

Encapsulation of Insulin in Polymeric Nanoparticles for Oral Administration: A Novel Approach to Treating Diabetes Mellitus

Ashley Dempsey

The Safety and Efficacy of Oncolytic Viral Therapy, with Herpes Simplex Type-1 (HSV-1) mutant G207, for Treatment of Glioblastoma Multiforme (GBM)

Lauren Seliga

Room 209

MODERATOR
Dr. Peggy Rice

Finding Immigration Reform Through A Faith-Based Perspective

Angela Cotta

Celebrating the Eucharist in Medieval Drama

Dr. Dawn Walts and Fr. Dan Torson

Comparison of Pedagogical Effectiveness of Using Web 1.0 and Web 2.0 Technologies for Learning Diversity Skills in Global Learning Communities

Dr. Seung Kim (Lewis University Faculty Scholar)

Room 251

MODERATOR
Dr. Deborah Augsburger

Late Effects of Acute Lymphocytic Leukemia

Donna Marinier

Genetic Engineering of [illegible] and its Use in Treating Infections

Wala Abu

Synthesis and Characterization of Nanocomposites for Next Generation Alternative Energy Applications

Dr. Jason Keleher (Lewis University Caterpillar Scholar)

SESSION III: *4:30-5:30 p.m.*

Room 202

MODERATOR
Ms. Sandra Razka

An Analysis of China's Methodology for Computing Gross Domestic Product (GDP)

Shan Wen

A Critical Analysis of IMF and World Bank Initiatives in Developing Countries

Hakeem Muhammad

The Impact of International Business on a Firm's Performance

Enas F. Mohamed

Room 203

MODERATOR
Ms. Melanie Obispo

Security Fallacies in Social Media

Kevin Swartz

Portrait of Relationship Dysfunction: The Impact of Technology on Domestic Abuse

Dr. Lynn A. Tovar and Dr. Tracey Nicholls (Lewis University Faculty Scholar)

The Ethical Dimensions of Regulatory Capture

Dr. Elizabeth Hoppe (Lewis University Faculty Scholar)

Room 209

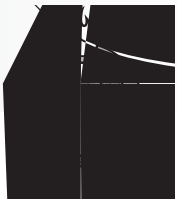
MODERATOR
Dr. Barbara Mackey

The Genealogy of Education in Chicago Polonia

Michael J. Dziallo

An Examination of Zero Tolerance Policies in K-12 Schools

Hiedi Santucci, Patricia Richert, and Kelly Rank



Who is Occupying the Classroom and the Post Racial Society Rhetoric: A Critical Narrative Uncovering Racism and Color Blindness in a School Wide Diversity Program

Ivan Antonio Soto

Room 230

MODERATOR
Ms. Erica Kwiatkowski-Egizio

Immigrant Rights in Education

McKenna Lulic

Encouraging the Need for a Variety of Reading Materials in the Middle School Classroom

Mary E. Gelezauskas

Supporting Secondary Science Teachers with Reading Comprehension Strategies

Kimberly Guidinger

SESSION IV: *5:30-6:30 p.m.*

Room 231

MODERATOR
Ms. Stephanie Miazga

Development of a Train-the-Trainer Program for Nurses Providing End-of-Life Pio20n06Tc 10 0 0 1Se4SpTf2(r)20(o.C Span Ac 10 P)12T-30(R)-35(A)4(TOR)TJETEM

Room 233

MODERATOR
Dr. Ibrahim Mescioglu

Peace Through Commerce – Analysis of the Positive Social Impact of Selected Multinational Enterprises in Mexico

Jennifer Casas

The Affects of Neoliberalism on Our Society's Education

Jessica Ruiz

A Challenge to Current Notions of Teaching and Learning

Danielle Ligocki

SESSION II: *4:30-5:30 p.m.*

A Concept Analysis of Hope

Marie T Penn

Activation Energy of Passivating Film Formation on a Static Copper Surface Using Model CMP Solutions with Differing Concentrations of Copper Ion

The Impact of International Business on a Firm's Performance

Graduate student project in Business

PRESENTER Enas Mohamed
FACULTY MENTOR Dr. Frank Rose

This research investigates the role that international business can play to improve a company's performance and its position in the market.

Student's Risk Aversion Factors by Major

Undergraduate student project in Business

PRESENTER Christopher White
FACULTY MENTOR Dr. YunTaek Pae

When it comes to investing, risk is the greatest threat to an individual's portfolio. Depending on a person's risk tolerance, investors are classified into different types of classes, ranging from aggressive to conservative. Our study aims to investigate which majors, within the College of Business, are the most risk averse in order to predict the likely investment choices they will make in the future.

Peace through Commerce - Analysis of the Positive Social Impact of Selected Multinational Enterprises in Mexico

Graduate student project in Business

PRESENTER Jennifer Casas
FACULTY MENTOR Dr. Frank Rose

Foreign direct investment in Mexico by multinational enterprises has helped foster the conditions for peace in that country. The study develops two case studies to illustrate this.

An Analysis of China's Methodology for Computing Gross Domestic Product (GDP)

Graduate student project in Business

PRESENTER Shan Wen
FACULTY MENTOR Dr. Frank Rose

This study analyzes China's methodology for computing gross domestic product, and compares and contrasts the Chinese method with the U.S. method. The results will help observers of the Chinese economy better understand patterns of economic growth in the country.

International Expansion of Tata Steel

Undergraduate student project in Business

PRESENTERS Victoria Strid, Emily Keene, Faris Ziadat and Saif Ziadat

FACULTY MENTOR Dr. Roberto Gamarra

The main goal of this paper is an analysis of the international expansion strategies of Tata Steel Group, with focus on the European operations and the company's technology developments to serve steel users in the automobile industry.

Bill Gates' Global Leadership

Undergraduate student project in Business

PRESENTER Eduardo Ramirez

FACULTY MENTOR Dr. Roberto Gamarra

In this study a behavioral approach to leadership developed to explore Bill Gates' global business leadership. This paper offers a new point of view on global business leadership.

The Effects of a Mega-dump on an Illinois Community – an In-Progress Report

Faculty project in Business

PRESENTERS Jonathan Hicks, Robert McGowan,

Security Fallacies in Social Media

Graduate student project in Business

PRESENTER Kevin Swartz
FACULTY MENTOR Dr. Faisal Abdullah

This study determines the fallibility of security in social media, specifically Facebook, how data that may be freely available can be used against a target, and best practices to help prevent against these flaws.

A Critical Analysis of IMF and World Bank Initiatives in Developing Countries

Graduate student project in Business

PRESENTER Hakeem Muhammad
FACULTY MENTOR Dr. Frank Rose

The study critically evaluates the work of the International Monetary Fund and the World Bank in several Latin American countries. The results show that there are often negative impacts on the economies of the countries receiving assistance from the two institutions.

A Study of Factors Contributing to BMO's Prominence in the Derivatives and Capital Markets

Undergraduate student project in Business

PRESENTER Nick Ernst
FACULTY MENTOR Dr. Frank Rose

This research analyzes the financial tools and services offered by the Bank of Montreal to client investors in the derivatives markets. It explores how the bank's expertise, offerings, and advice in these product areas have contributed to its growth to prominence in the capital markets.

Immigrant Rights in Education

Graduate student project in Education

PRESENTER McKenna Lulic
FACULTY MENTOR Dr. Barbara Mackey

Is education equitable for language minority students? A modern day case study of inequity in education in a Michigan school district. Live links for transformative education to empower teachers, parents and students. Sitio web: Derechos En Educación.

Muslim Female Youths' Identity Negotiation

Graduate student project in Education

PRESENTER Eileen McCaffrey
FACULTY MENTOR Dr. Brad Porfilio

This study examines Muslim female youth and the relationship between their negotiation of multiple identities in the public school system and their life's opportunities.

The Genealogy of Education in Chicago Polonia

Graduate student project in Education

PRESENTER Michael J. Dziallo
FACULTY MENTOR Dr. Brad Porfilio

The maintenance of native language and c(Th/Sp7r>BDC [e12(r)6 8.5 07r/MCID 913 >BD

Zero Tolerance Policies

Graduate student project in Education

PRESENTERS Kristi Kelly, Hiedi Santucci, Patricia Richert and Kelly Rank
FACULTY MENTOR Dr. Brad Porfilio

This study is an examination of Zero Tolerance Policies in K-12 schools.

The Portrayal of the American Family in Television Situation Comedies

Graduate student project in Education

PRESENTERS Michael Dziallo, James "Doug" France, Brenda Lee and Eileen McCaffrey
FACULTY MENTOR Dr. Brad Porfilio

A review of the portrayal of the family throughout the history of the American television situation comedy reveals reinforcing hegemonic themes for American society.

A Challenge to Current Notions of Teaching and Learning

Graduate student project in Education

PRESENTER Danielle Ligocki
FACULTY MENTOR Dr. Kip Kline

This paper explores the ideas of popular educators and authors that challenge the current notions of both teaching and learning. It takes a glimpse into the difficulties facing students and the ways in which schooling as we know it is not meeting their needs.

Lasallian Heritage and Active Learning: Rethinking Classroom Performance

Faculty project in Education

PRESENTER Dr. Roberto Gamarra

Conventional notions of classroom performance highlight the role of instructors' teaching. We propose a new framework to build a better understanding of classroom performance based on the integration of Lasallian insights and integrative and cooperative learning.

Supporting Secondary Science Teachers with Reading Comprehension Strategies

Graduate student project in Education

PRESENTER Kimberly Guidinger
FACULTY MENTOR Dr. Joyce Hayward

This session describes the theoretical and research implications in creating effective literacy professional development to support high school science teachers as they assist students in the process of reading and comprehending complex content materials and experiments in the classroom.

Encouraging the Need for a Variety of Reading Materials in the Middle School Classroom

Graduate student project in Education

PRESENTER Mary Gelezauskas
FACULTY MENTOR Dr. Joyce Hayward

The International Reading Association recommends educators use a variety of reading materials in providing targeted instruction for all students. This recommendation is based on educational research and theory. This session explores the work of a reading specialist in using research and theory to create professional development that encourages the use of picture books to promote greater understanding of topics in the middle school classroom.

The Effects of Neoliberalism on our Society's Education

Graduate student project in Education

PRESENTER Jessica Ruiz
FACULTY MENTOR Dr. Kip Kline

Written for the course, Theories of Transformative Leadership, taught by Professor Dr. Lauren Hoffman, this paper is a reflection of the societal issues posing a threat to our schools. The current system is in need of a more democratic, moral approach toward education in efforts to prepare the student as an individual, contributing member of society.

Who is Occupying the Classroom and the Post-Racial Society Rhetoric: A Critical Narrative Uncovering Racism and Color Blindness in a Schoolwide Diversity Program

Graduate student project in Education

PRESENTER Ivan Antonio Soto
FACULTY MENTOR Dr. Bradley Porfilio

The purpose of this presentation is to demystify the idea that we now live in a post-racial society. The argument is based upon the participation in a schoolwide diversity program in a secondary school in the Chicagoland area.

Comparison of Pedagogical Effectiveness of Using Web 1.0 and Web 2.0 Technologies for Learning Diversity Skills in Global Learning Communities

Faculty project in Education

PRESENTER Dr. Seung Kim

The aim of this study is to provide a practical framework for educators who wish to enhance their students' global learning with Web technologies. A total of 43 pre- and in-service teachers from three different cultural settings participated in online discussions and collaborative projects with the assigned Web application. The presenter will share how Web technologies have been used within global learning environments and discuss some of the potential opportunities and challenges with Web applications.

The Effectiveness of Christian Rhetoric in

Undergraduate student project in Humanities

PRESENTER Kelly Schreiber
FACULTY MENTOR Dr. Jackie White

Although much scholarship argues that Harriet Beecher Stowe's use of Christian rhetoric in *Uncle Tom's Cabin* is not effective in conveying her anti-slavery message, this paper examines key characters and biblical allusions/connections to argue the opposite. Her novel shows that slavery is intrinsically wrong, and also provides hope that a Christian love will transcend it.

Finding Immigration Reform Through a Faith-Based Perspective

Undergraduate student project in Humanities

PRESENTER Angela Cotta
FACULTY MENTOR Dr. James Burke

Finding Immigration Reform Through a Faith-Based Perspective serves as a starting point for solving immigration-related issues in a manner that is fair for all people and recognizes the nation's security needs. This paper will ask two questions: first, what is it like to immigrate to the United States since September 11, 2001?; and second, how might Catholic social teaching principles contribute constructively to the public policy debate on immigration reform?

Freedmen to Farm Owners: Tracing Emancipated People's Varied Pathways to Land Ownership

Undergraduate student project in Humanities

PRESENTER John Dembowski
FACULTY MENTOR Dr. Mark Schultz

This essay attempts to track the various pathways to landownership taken by the first two generations of freed people after the conclusion of the Civil War. This story is traditionally told as one of failure, with Freedmen falling into an endless circle of debt and sharecropping, or else leaving the rural areas for the opportunities of the city. By 1910, however, nearly a quarter of all black farmers owned their own land. The story of their climb to success will be explored here.

Women in Early American Literature

Undergraduate student project in Humanities

PRESENTER Katie Esposito
FACULTY MENTOR Dr. Jackie White

This essay focuses on two very significant women in Early American Literature, Anne Bradstreet and Mary Rowlandson, who present fascinating narratives that both challenge the norms of their society and stand out against the narratives and poems of a man.

Inner Force: The Relationship Between Human Nature and Conflict

Undergraduate student project in Humanities

PRESENTER Sean Lenckus
FACULTY MENTOR Dr. Tracey Nicholls

The relationship between human nature and conflict will be discussed, with special focus on Thomas Hobbes, and an overview of several non-violent resistance movements which contradict this view. Ultimately, the question of: "Is war inherent in our nature?" will be answered.

Celebrating the Eucharist in Medieval Drama

Faculty project in Humanities

PRESENTERS Dr. Dawn Walts and Rev. Dan Torson

The collaborative work, explores the dynamic role of the Eucharist in medieval drama and society. Drawing from collective research in religious studies and close readings of medieval English drama, it is argued that the Eucharist, as a symbol of Christ's body, is employed dramatically to reflect medieval concerns about the shifting social estates.

Consulting a Large Community Hospital in Achieving Disease-Specific Care Certification by The Joint Commission

Alumni project in Humanities

PRESENTERS Debora Painter, Mary Antongiorgi, Robin

Who Do We Say We Are? Catholic Feminist Theology and Critical Methodologies

Faculty project in Humanities

PRESENTER Dr. Karen Trimble Alliaume

Jesus' famous question to his disciples–"Who do you say I am?"–invites reflection on how women and other marginalized groups have answered this question in dialogue with Christian tradition. This presentation will introduce one item from a Catholic feminist methodological toolbox, "figuration," in order to offer a constructive intervention in current cultural conversations about the meaning of Jesus Christ.

"The Others": A Film Essay

Undergraduate student project in Humanities

PRESENTER Christine Sellin
FACULTY MENTOR Dr. Simone Muench

This is an essay on Alejandro Amenabar's film "The Others." The essay discusses how the director makes a statement about human mortality through the use of mirrors as part of the *mise-en-scène*.

: Concerning the Rugged Individual and the Modern Reader

Undergraduate student project in Humanities

PRESENTER Peter Jokubauskas
FACULTY MENTOR Dr. Jackie White

As the title suggests, this essay explores the American motif of the rugged individual in Thoreau's *Walden*, while simultaneously showing how *Walden* and its themes are specifically relevant to modern audiences.

The Ethical Dimensions of Regulatory Capture

Faculty project in Humanities

PRESENTER Dr. Elizabeth Hoppe

The Ethical Dimensions of Regulatory Capture examines the meaning of regulatory capture along with its ethical components. In addressing this topic, the focus is specifically on the Federal Aviation Administration, its proneness to capture, and some of the ways to alleviate the problem, especially through the application of ethical theories.

Determining Lead Cleansing Patterns and Lead Memory in Aircraft Engine Emissions While Converting to an Unleaded Aviation Gasoline

Alumni project in Math / Science

PRESENTERS Jordan Raess, Julius Keller and Alessandro Mazza

FACULTY MENTOR Dr. Randy DeMik

To reduce lead emissions released by general aviation aircraft engines, Swift Enterprises proposed 100SF as a possible replacement for current 100LL fuel used today. Therefore, this study aimed to illustrate whether a sampling of general aviation aircraft engines had similar lead cleansing characteristics while using 100SF.

Affective Research in Mobile Development

Undergraduate student project in Math / Science

PRESENTER Michael Korby
FACULTY MENTOR Dr. Cindy Kersey

This project is developing an application that will use the multiple sensors that are incorporated into mobile devices to collect data from user interactions with a task that is designed to induce user frustration. The goal is to use the collected data to derive a predictive model of user affective state. The application that was developed will be present along with plans for future research.

Acupuncture for Headache Prophylaxis

Undergraduate student project in Math / Science

PRESENTER Erin Blazina
FACULTY MENTOR Dr. Jennifer Roberts

Compared to sham acupuncture and certain pharmaceutical drugs, verum acupuncture is a viable treatment with the least amount of side effects for headache prophylaxis.

Migraine Prophylactic Through Use of Magnesium and Riboflavin

Undergraduate student project in Math / Science

PRESENTER Mario Vivona
FACULTY MENTOR Dr. Jennifer Roberts

Using magnesium and riboflavin (B2) as an alternative prophylactic to other migraine- specific drugs reduces the negative associated side effects, while still producing the desired results.

Late Effects of Acute Lymphocytic Leukemia

Undergraduate student project in Math / Science

PRESENTER Donna Marinier
FACULTY MENTOR Dr. Jennifer Roberts

Acute Lymphocytic Leukemia (ALL) is a common childhood cancer which originates in the bone marrow. Many of the medications and treatment routes for ALL are now known to cause late-term effects, including cardiovascular disease and osteopenia /osteoporosis.

Transplantation of Pancreatic Islet Cells as a Possible Treatment for Type 1 Diabetes Mellitus

Undergraduate student project in Math / Science

PRESENTER Katie Crawford
FACULTY MENTOR Dr. Valerie Vander Vliet

Type 1 Diabetes Mellitus is a disease through which the body no longer produces insulin. Through the transplantation of islet cells into the pancreas, the patient may regain the ability to produce endogenous insulin. This procedure can potentially become a viable treatment option for Type 1 Diabetes Mellitus.

Acute Intermittent Porphyria

Undergraduate student project in Math / Science

PRESENTER Justin Wernig

FACULTY MENTOR

Exon Skipping in Duchenne Muscular Dystrophy

Undergraduate student project in Math / Science

PRESENTER Martyna Kulawiuk
FACULTY MENTOR Dr. Valerie Vander Vliet

This paper investigates the treatment of exon skipping in Duchenne muscular dystrophy patients.

Encapsulation of Insulin in Polymeric Nanoparticles for Oral Administration: A Novel Approach to Treating Type 1 Diabetes Mellitus

Undergraduate student project in Math / Science

PRESENTER Ashley Dempsey
FACULTY MENTOR Dr. Erin Zimmer

Diabetes Mellitus Type 1, continues to be a chronic metabolic disorder that affects many people throughout the country, requiring strict glycemic control to reduce the progression and complications associated with it. Parenteral administration of insulin, a 51 amino acid peptide, through subcutaneous injection has thus far proven to be the most successful means for controlling blood glucose levels. Despite the effectiveness of insulin therapy, the route of administration is rather unfavorable. Consequently, investigation into the use of insulin encapsulatd84(ype 1 Diabetes)TJE ompS()ssf 54ather unfavthe effectiveness of insulin the

The Theremin: Exploring the Physics of an Electronic Musical Instrument

Undergraduate student project in Math / Science

PRESENTER Matt Macaluso
FACULTY MENTOR Dr. Joseph Kozminski

A collaboration between the Music and Physics Departments, the physics of one of the oldest electronic instruments, the theremin, was investigated in order to improve the design of the instrument currently in possession of the Music Department.

Effect of Surfactant Concentration on the Size and Fluorescence Quantum Yield of CdS and PbS Quantum Dots

Undergraduate student project in Math / Science

PRESENTER Russell Johnson

The Safety and Efficacy of Oncolytic Viral Therapy, with Herpes Simplex Type-1 (HSV-1) Mutant G207, for Treatment of Glioblastoma Multiforme (GBM)

Undergraduate student project in Math / Science

PRESENTER Lauren Seliga
FACULTY MENTOR Dr. Erin Zimmer

One developing treatment for cancer utilizes mutant viruses that are able to lyse cancer cells. This thesis will discuss the potential of a herpes simplex virus mutant (G207) for the treatment of glioblastoma.

The Continuum Hypothesis: An Undecidable Proposition?

Undergraduate student project in Math / Science

PRESENTER Jessica Dreher
FACULTY MENTOR Dr. Greg Manning

This presentation will explore a significant and controversial problem in theoretical mathematics: transfinite sets and how their cardinalities differ. The different methods for determining the cardinalities and comparing them will be discussed, as will the nature of the controversies surrounding the determination of the cardinalities.

Blood Vessel Repair with the Use of Vascular Endothelial Growth Factors and Angiogenesis

Undergraduate student project in Math / Science

PRESENTER Kris Nadarajah
FACULTY MENTOR Dr. James Rago

This project explains the use of vascular endothelial growth factors in the healing of blood vessels, particularly after surgical procedures.

Cerebral Edema Due to Treatment Complications of Diabetic Ketoacidosis in

Effects of Prod 1 in Limb Regeneration in Urodele Amphibians

Undergraduate student project in Math / Science

PRESENTER Lauren Wojtaszek
FACULTY MENTOR Dr. James Rago

A presentation on the initiation of limb regeneration in salamanders; specifically how Prod 1 gene works in initiating the process.

DHEA Supplementation

Undergraduate student project in Math / Science

PRESENTER Aleksander Pecherek
FACULTY MENTOR Dr. James Rago

This project explores the benefits and side effects of dehydroepiandrosterone (DHEA) supplementation.

The Use of Human Chorionic Gonadotropin (hCG) in Breast Cancer Prevention

Undergraduate student project in Math / Science

PRESENTER Brittany Stasukewicz
FACULTY MENTOR Dr. James Rago

This presentation discusses the potentially beneficial uses of Human Chorionic Gonadotropin in the prevention of breast cancer.

Endoplasmic Reticulum Stress: The Unfolded Protein Response and Diabetes

Undergraduate student project in Math / Science

PRESENTER Ryan Wible
FACULTY MENTOR Dr. James Rago

Development of a Train-the-Trainer Program for Nurses Providing End-of-Life Planning

Enhancing Professionalism in Nursing Through Certification

Graduate student project in Nursing

PRESENTERS Jennifer M. Grenier, Jennifer Bak, Sherry Lombardo and Victoria Carroll

FACULTY MENTOR Dr. Jan Smith

Board certification is validation of a nurse's knowledge and expertise in a specialty area. A survey was conducted of staff nurses to identify barriers to specialty certification. Based on the results, the development of a plan to reduce the barriers to certification and subsequently increase certification pan TmEspecialty Tenfoughi Cer.3(mith)-5( )]MCI5(imul(')1MCID 1542 BDEs k37c(':EMC

Anticipatory Grief and Terminal Cancer: Concept Confusion?

Graduate student project in Nursing

PRESENTER Mary Parks
FACULTY MENTOR Dr. Paula Karnick

The concept of anticipatory grief has been used to describe the complex issues of those facing impending death, and is used to describe the experience of both the dying person and their survivors. Research has shown that those who have received a diagnosis of terminal cancer experience many symptoms, both physical and psychosocial, that mirror those symptoms historically attributed to anticipatory grief, causing confusion with the identification of the concept.

Establishing a Continuity of Care Model for Persons with Chronic Conditions: Diabetes

Service Learning as a Tool for Nursing Education

Undergraduate student project in Nursing

PRESENTERS Nicole Serdena, Brittany Conrad, Wendy Mazariegos, Caitlin Murach, Kaleigh Nolan, and Brittany Russo

FACULTY MENTOR Dr. Gail Vitale

The service learning model was used in nursing education to encourage a greater understanding of healthcare needs for vulnerable populations.

Body Image and College Women

Graduate student project in Social Science

PRESENTER James France

FACULTY MENTOR Dr. Kip Kline

The purpose of this study is to understand the expectations young adult women (college) have about their body image. Thus, this study explores how their experiences and interpretations of their body image have socialized their thinking and perceptions for their need to reconstruct their bodies.

exhibits

Finding Normative Data for Serial 3 and Serial 7 Tests

Undergraduate student project in Social Science

PRESENTER Artrina Slabich
FACULTY MENTOR Dr. Thomas Bristow

This project set out to establish standardized administration and normative data for Serial 3 and Serial 7 Tests, which are used in traumatic brain injury and Alzheimer's Disease to test cognitive function. By finding norms, these cognitive tasks would be able to be used more widely and more definitively.

The Cyclical Nature of Human Rights

Undergraduate student project in Social Science

PRESENTER Lauren Messenger
FACULTY MENTOR Dr. Tracey Nicholls

This study is an examination of human rights with respect to the societies in which they rise and fall.

Autobiography

Undergraduate student project

PRESENTER Jillian Carlberg
FACULTY MENTORS Mark Swain and Paul Mitchell

Autobiography is a mixed media piece providing an autobiographical perspective on the life of the artist. Combining line study, photography, and digital media in the creation of this work, a large emphasis is placed on line, weight, shape, repetition, color, and geometry. With each element of the design chosen intentionally, the piece expresses the core of the artist's "self" in the hope that viewers will gain a greater grasp of their own "self" and appreciation for others.

Subway Station

Undergraduate student project

PRESENTER Connor McLennan
FACULTY MENTOR Mark Swain

Subway Station is a piece inspired by how the artist has noticed a slice of modern life. Depicting a dirty, weathered subway station, this work was created from the experience of many trips into and out of Chicago on the Metra and the L trains. In this work, a homeless man and middle-class business man juxtapose each other portraying the economic struggles people are experiencing. Using a variety of materials such as charcoal, oil paint, gouache, spray paint and acrylic enabled the artist to gain more depth and age to the piece.

Three Sheets to the Wind

Undergraduate student project

PRESENTER Connor McLennan
FACULTY MENTOR Mark Swain

Three Sheets to the Wind is a portrayal of energy through line and color. Although the man depicted in this painting is projectile vomiting, the strong diagonals within the spray paint and geometric contour lines give it life. Also, the sharp edged geometric repetition throughout the piece is contrasted by the spontaneous, gestural and uncontrollable scribbles within the figure. With all qualities kept in mind, this piece shows high energy and chaos, while it still keeps unity and balance.

Eggs

Undergraduate student project in Humanities

PRESENTER Deirdre McCormick
FACULTY MENTOR Dr. Simone Muench

The World of Fruitcake

Undergraduate student project in Humanities

PRESENTER Timothy Fitzpatrick
FACULTY MENTOR Dr. Simone Muench

This poem is an imitation of Wallace Stevens' "The Emperor of Ice Cream," and it satirically speaks to the current trend of consumerism and consumption during the holiday season.

"Dear Shakespeare" and "Dear Jersey Shore"

Undergraduate student project in Humanities

PRESENTERS Katie Esposito and Tim Fitzpatrick
FACULTY MENTOR Dr. Simone Muench

What would William Shakespeare think of "Jersey Shore"? These collaborative poems, "Dear Jersey Shore" and "Dear Shakespeare" speak to one another in a way that explores how the art of language has been distorted through reality TV shows.

Beowulf

Faculty project in Humanities

PRESENTERS Peter Jokubauskas, Kelly Schreiber, Megan Schlegel and Christine Sellin
FACULTY MENTOR Dr. Dawn Walts

This production originated as the final group project for British Literature 1.

Shakespeare Poster Boards

Undergraduate student project in Humanities

PRESENTERS Katie Esposito, Erick Passarelli, Christine Sellin, and Michelle Vuckso

FACULTY MENTOR Dr. Dawn Walts

This assignment was designed to allow students the opportunity to engage more creatively with Shakespeare's work. Students translated the content

Stage Properties Designed and Constructed for "Seussical", "Dr. Jekyll and Mr. Hyde", and "Rose and the Rime"

Undergraduate student project in Performing Arts

“Roots: A Foundation of Identity”

Undergraduate student project in Performing Arts

PRESENTER Candelaria Sanchez
FACULTY MENTOR Dr. Simone Muench

This creative nonfiction essay explores identity and culture while examining the multiple meanings of “skin,” as specifically related to Mexican-American heritage.

The Internationalization Strategy of Baosteel

Undergraduate student project in Business

PRESENTERS Christopher White and Christina Hitchcock
FACULTY MENTOR Dr. Roberto Gamarra

Our study aims to investigate ways a firm can enter global markets. In this case study research, we look at Baosteel, a Chinese international steel producer. This company's internationalization strategy has enabled it to become a technology leader in the global steel industry.

International Expansion of Nippon Steel

Undergraduate student project in Business

PRESENTER Jody Wagner and Victoria Jorden
FACULTY MENTOR Dr. Roberto Gamarra

This study explores the international expansion of Nippon Steel Corporation, a leading company in the global steel industry.

Causes and Results of the Global Financial Crisis

Graduate student project in Business

PRESENTER Huyen Le
FACULTY MENTOR Dr. Frank Rose

This study examines the global financial crisis of 2007-2009 with respect to causes, recovery plans implemented in several key countries, effectiveness of those plans, and lessons learned that may help predict and avoid future crises.

The Response of Greek Citizens to Greece's Financial Crisis

Graduate student project in Business

PRESENTER Jennifer Fregeau
FACULTY MENTOR Dr. Frank Rose

This study examines the response of Greek citizens to the country's financial crisis. Attempts to pull the country out of debt have caused major changes to the lives of the general population. The reaction of the citizens will play an important role in the country's ability to recover and move forward.

Curriculum Based Measurements

Undergraduate student project in Education

PRESENTERS Heather Hagberg and Jennifer Sitar
FACULTY MENTOR Dr. Pamela Jessee

The purpose of a comprehensive assessment and evaluation is to accurately identify a student's patterns of strengths and needs (National Joint Committee on Learning Disabilities, 2010). The evaluation summarizes previously known information, which is used to help support and analyze new results in an effort to create and administer curriculum that is meaningful and relevant to a given student.

Art for Peace: A Collaborative Class Contribution to The Global Art Project

Faculty project in Humanities

PRESENTER Dr. Tracey Nicholls and 15-330-5 Ethics (Action and Values)

This is a poster presentation about building a global solidarity movement for world peace, through the exchange of artworks created by the participants in the movement.

Effects of an Orientation Program on Volunteer Satisfaction and Retention

Alumni project in Humanities

PRESENTER Holly Calvillo
FACULTY MENTOR Dr. Keith Lavine

This research focuses on the motivation of volunteers at nonprofit organizations and the factors involved in retaining them. Specifically, the study examines the potential impact of an orientation program on volunteer satisfaction and retention.

Increasing On-the-Job-Trainings Under Workforce Development

Alumni project in Humanities

Public Relations Portfolio

Undergraduate student project in Humanities

PRESENTER Mary Carroll
FACULTY MENTOR Lisa O'Toole

This project features a public relations portfolio for a local non-profit organization.

"A Midsummer Night's Dream"

Undergraduate student project in Humanities

PRESENTER Christine Sellin
FACULTY MENTOR Dr. Dawn Walts

This poster presentation features Shakespeare's "A Midsummer Night's Dream" as told in newsletter form. It includes the writer's reflections on the creative and analytical process.

"Othello" in Facebook

Undergraduate student project in Humanities

PRESENTER Katie Esposito
FACULTY MENTOR Dr. Dawn Walts

This poster tells the story of Shakespeare's "Othello" in the format of a Facebook profile.

Undergraduate student project in Humanities

PRESENTER Erick Passarelli
FACULTY MENTOR Dr. Dawn Walts

This poster project tells the story of Shakespeare's "Othello" as if it were chronicled by a newspaper, *The Moor Times*. The author created this assignment to aid high school students in understanding Shakespeare's play drawing from experience working on *The Flyer*.

"Henry IV, Part 1"

Undergraduate student project in Humanities

PRESENTER Michelle Vucsko
FACULTY MENTOR Dr. Dawn Walts

This poster project tells the story of Shakespeare's "Henry IV, Part 1" as if it were chronicled by a newspaper. It was created to aid high school students in understanding Shakespeare's play.

Evolution of Vampires

Undergraduate student project in Humanities

PRESENTER Martina Barnat
FACULTY MENTOR Nate Slawson

This is a presentation explaining the evolution of vampires, to what and how they have evolved, and how we have changed in our views of these once-terrifying creatures.

Role of Fingerprint Powder Particle Size on Latent Print Quality

Undergraduate student project in Math / Science

PRESENTER Cassandra Myers
FACULTY MENTOR Dr. Jason Keleher

In the current capacity of forensic investigation, a myriad of different fingerprint powders are utilized to develop latent fingerprints. This presentation focuses on the correlation between latent print quality and particle size and also expands on developing fingerprint research.

Evaluation of the Catalytic Decomposition of H_2O_2 Through Use of Organo-metallic Complexes – A Potential Link to the Luminol Presumptive Blood Test

Undergraduate student project in Math / Science

PRESENTERS Olivia Chesniak, Thomas Soderquist, Matthew Witt, Alan Paramo, and Victoria Keeling
FACULTY MENTOR Dr. Jason Keleher

The luminol reagent is widely used for latent blood detection during crime scene investigation. The iron core of hemoglobin reacts with the luminol reagent and an oxidizing agent, such as hydrogen peroxide (H_2O_2), to produce chemiluminescence. Until this point, the reaction mechanism had been unresolved and the validity of the luminol reagent as a presumptive test was questioned due to the luminescent response produced via reaction with other organo-metallic complexes. This recently published work sheds light on the mechanistic details of the luminol reaction, showing a strong correlation between the rate of catalytic H_2O_2 decomposition, chemiluminescent intensity, and complex structure.

Synthesis of Flexible Anodic Nanomaterials for Bio-inspired Solar Energy Production

Undergraduate student project in Math / Science

PRESENTERS Olivia Chesniak, Matthew Witt, John Ephraim and Jarmel Doss
FACULTY MENTOR Dr. Jason Keleher

Renewable energy sources are in great demand as a result of the economic dependence on fossil fuels and the abundance of power-generating natural resources, including sunlight and wind. Rooted in a molecular understanding of photosynthesis and dye-sensitized solar cells (DSSC), this work focuses on the synthesis of flexible nanomaterials for use in solar energy production. An affordable alternative to silicon solar cells, this work focuses on the preparation of a flexible and conductive polymer matrix embedded with dye-coated semiconducting nanoparticles.

Activation Energy of Passivating Film Formation on a Static Copper Surface Using Model CMP Solutions with Differing Concentrations of Copper Ion

Undergraduate student project in Math / Science

PRESENTERS Russell Johnson and Brad Watson
FACULTY MENTOR Dr. Jason J. Keleher

Chemical Mechanical Polishing (CMP) has emerged as a critical

Studying the Solid-Liquid Interface Relevant to CMP

Undergraduate student project in Math / Science

PRESENTERS Jordan Kaiser and Kelly Tillman
FACULTY MENTOR Dr. Jason Keleher

This research utilizes fourier transform attenuated total reflectance (FT-ATR), dynamic light scattering (particle size), zeta potential, and electrochemical quartz crystal nanobalance (EQCN) to measure interactions at the solid-liquid interface during the CMP process. Extensive understanding of these processes will shed light on the development of novel consumables (pads, filters, slurries) for a wide range of next generation CMP applications.

Identifying the Structure and Formation Process of [redacted] Biofilms Using Attenuated Total Reflectance Spectroscopy and Electrochemical Quartz Crystal Nanobalance Measurements

Undergraduate student project in Math / Science

PRESENTERS Katherine Hargrove and Thomas Campbell
FACULTY MENTOR Dr. Jason Keleher

This project studies two types of bacteria, *Escherichia coli* and *Staphylococcus aureus*, using ATR Spectroscopy and EQCN measurements in order to study their method of attachment on different surfaces.

Biofilm Development: Many Characters, Different Plots

Undergraduate student project in Math / Science

PRESENTERS Erin Blazina, Aleksander Pecherek, Elizabeth Figus, Christian Yasmine and Elizabeth Floren

FACULTY MENTOR Dr. Jerry Kavouras

An investigation of *E. coli* and *S. aureus* biofilm architecture and development under static environmental conditions. Environmental factors such as temperature, surface chemistry, and nutrients play a role in the arrangement and density of cells within biofilms. These factors may influence the integrity of the biofilm as a protective barrier.

Simulations of Neutron Interactions with Various Materials for Particle Detector Shielding

Undergraduate student project in Math / Science

PRESENTER

Automating Market Analysis to Maximize Profit and Minimize Risk

Undergraduate student project in Math / Science

PRESENTER Brian Wilhelm
FACULTY MENTOR Dr. Ray Klump

This work aimed to give the average investor an advantage over the usual "buy and hold' investment approach by studying investment products and their behavior as they relate to their underlying attributes. Several conventional market-monitoring strategies were combined to find recurring sets of similar data and use the results to anticipate changes in the value of investment vehicles.

Student Centered Learning Through Integration

Faculty project in Math / Science

PRESENTER Lark Welch

Fink's Taxonomy of Creating Significant Learning Experiences through Integration and Service Learning will be presented via a poster presentation. This taxonomy will be connected to cognitive learning along with constructivism, and how someone has learned to learn. This is a powerful student centered learning approach to education in any discipline.

Antimicrobial Efficiency of Photochemically Prepared Ag-TiO_2 Nanoparticles

Undergraduate student project in Math / Science

PRESENTERS Thomas Campbell, Alessandro Mazza, Tyler Mccue and Deirdre McCormick

FACULTY MENTOR Dr. Jason Keleher and Dr. James Rago

This project explores the effects of particle size and zeta potential on the antimicrobial efficiency of silver-coated titanium nanoparticles. Twenty-five particle batches were synthesized, varying the reaction mixture each time, and the products were characterized before analyzing their antimicrobial efficiency.

Algorithm for Advanced Directives

Alumni project in Nursing

PRESENTERS Olivia Lemberger and Dr. Stacie Elder

FACULTY MENTOR Dr. Jan Smith

Nurses in all clinical settings encounter ethical issues that consistently lead

Incorporating Caring Theory into Personal and Professional Nursing Practice to Improve Perception of Care

Alumni project in Nursing

PRESENTERS Mary Desmond, Dr. Linda Ryan, Kathryn Keith, Susan Kelby and Suzen Horn
FACULTY MENTOR Dr. Jan Smith

A purposive sample of ten nurses was selected to participate in an educational session. The purpose was to enhance caring behaviors of nurses, consistent with Watson's (2008) Caring Science Theory. The participant's caring attitudes and behaviors were measured. The nurses' caring attitudes and behaviors increased at the conclusion of the session. Results of the HCAHPS score comparisons six months post intervention is pending.

FIRST PICC: PICC Lines vs. CVCS to Reduce Insertion Complications

Undergraduate student project in Nursing

PRESENTERS Keali Driscoll, Katherine Gawlik and Kathleen A. Posa
FACULTY MENTOR Dr. Kathleen Fitzgerald

This presentation's purpose was to compare the incidence of infection and complications related to placement of short-term central venous catheters (CVCs) versus peripherally inserted central catheters (PICCs). EBSCO, CINAHL, and PubMed databases were searched and three research studies were reviewed. All studies concluded that PICC lines decreased the risk of insertion-related complications and were cost-effective based on lower infection rates, decreased patient injury, and less cost per patient.

A Concept Analysis of Hope

Graduate student project in Nursing

PRESENTER Marie Penn
FACULTY MENTOR Dr. Jan Smith

An examination of the concept of hope was conducted using the analysis strategy developed by Walker and Avant (2010). This approach examines identifiable historical uses, distinct attributes, antecedents, consequences, and empirical referents of hope. This analysis provides important implications for professional nursing practice and patient care.

Spiritual Leadership: The Art of Facilitating Advanced Care Planning

Faculty project in Nursing

PRESENTERS Dr. Kathleen Blanchfield and
Dr. Jan Smith

Parish Nurses are in a unique and privileged position to help members of the congregation deal with the life shaping issue of advanced care planning. The principles of servant leadership (O'Brien, 2011) serve as a framework by which the parish nurse can assist individuals with decisions about planning for this difficult life transition.

Child Abuse, Elder Abuse, and Intimate

Quality Improvement: Is a Foley Catheter the Right Answer?

Undergraduate student project in Nursing

PRESENTERS Jaimie Castonguay, Jennifer Rachan, Amanda Young, Ashley O'Connor, Caitlin Schlomas, Colette Maida, Kathryn Hague and Mallory Finn

FACULTY MENTORS Patricia Braida, Kathy McDannel

The aim of this project was to investigate the appropriateness of Foley catheter use and to improve the quality of care for patients by reducing the inappropriate use of indwelling Foley catheters. Nursing students assessed the clinical indications and appropriateness for the use of Foley catheters in their patients by utilizing guidelines from the literature.

CAUTI Protocol in an Acute Hospital Setting

Graduate student project in Nursing

PRESENTER Pinkey Patel

FACULTY MENTOR Dr. Pamela Martyn-Nemeth

Catheter acquired urinary tract infections (CAUTI) account for 80% of all

Diabetes Management in Schools

Graduate student project in Nursing

PRESENTER Libby Black
FACULTY MENTOR Dr. Pamela Martyn-Nemeth

Children with Type 1 diabetes (T1DM) spend much of their day in schools where proper management of their disease is crucial to their safety and wellbeing. The goal of this policy analysis was to examine current school policy to determine the best approach to safely manage this population during their school day. Literature shows varying methods of diabetes management in schools across the nation. Without the resource of a school nurse, trained diabetes care aides are appropriate alternative caregivers.

Combating Childhood Obesity with Physical Activity Programs in Schools

Graduate student project in Nursing

PRESENTER Valerie Fleishman
FACULTY MENTOR Dr. Pamela Martyn-Nemeth

The aim of this policy analysis was to review the current state of physical activity in schools and identify the most effective approach to reduce obesity. The nation's educational system provides a logical environment to involve the greatest amount of children in physical activity programs.

Improving Quality of Care in Patients with CHF

Undergraduate student project in Nursing

PRESENTERS Jea Ramiro, Samantha Hill, Amanda Zabierek, Shay Valen, Rebecca Burkhart, Katelyn Melvin, Colleen Duggan, and Abigail Stec

FACULTY MENTORS Katherine McDannel and Diana Scheader

This project developed a pocket guide to aid certified nursing assistants (CNAs) from a southwest suburb medical center in their delivery of care for patients with congestive heart failure. The tool relayed to CNAs the significance of their interventions in relation to the disease process, and the importance of maintaining communication about the patient's condition with the nurse. Ultimately, the tool improved charting and

Combating Bullying Through a Youth Mentoring Program

Undergraduate student project in Social Science

PRESENTERS Areli Delgado, Lauren Szot and Toneika Wallace

FACULTY MENTOR Dr. Gail Gehrig

Applied Sociology students surveyed children in the Lewis Big Brothers/ Big Sisters (BBBS) mentoring programing concerning their experiences with bullying. Findings from the survey were incorporated into an effective interactive bullying awareness and prevention program for the youth and their Lewis mentors.

Depictions of Black Women via Reality Television

Undergraduate student project in Social Science

PRESENTER Toneika Wallace

FACULTY MENTOR Dr. Tennille Allen

This study conducted a content analysis on the depictions of African American women in reality television.

Black Consciousness and the Black Panther Party

oversight committee

Dr. Pam Martyn-Nemeth
Dr. Nan Russell Yancey
Dr. James Burke
Dr. Dennis Cremin
Dr. Joyce Hayward
Dr. Lauren Hoffman
Dr. Kip Kline
Dr. Ray Klump
Dr. Joe Kozminski
Dr. Julie Krahl
Mona LaMontagne
Dr. Jamil Mustafa
Dr. Frank Rose
Lisa Salazar
Kurt Schackmuth
Mark Swain
Dr. Lynn Tovar
Dr. Connie Zak

notes

notes

LEWIS
UNIVERSITY