PROGRAM

PLENARY SESSION

St. Charles Borromeo Convocation Hall

05 **Kryssi Staikidis, Ed.D.** ..... 11 AM-Noon

CONCURRENT SESSIONS

Academic Building

06 **Session I** ..... 1-1:45 PM

08 **Session II** ..... 2-3 PM

10 **Session III** ..... 3:15-4:15 PM

12 **Session IV** ..... 4:30-5:30 PM

CREATIVE WORKS

Oremus Fine Arts Center

14 **President's Art Exhibition Works on Display (Brent and Jean Wadsworth Family Gallery)** ..... Noon-5:30 PM

13 **Creative Works Performances (Studio Theater)** ..... 2-4 PM

POSTERS

Academic Building (Posters on display from Noon- 5:30 PM)

15 **Session A** ..... 2-3 PM

19 **Session B** ..... 3:15-4:15 PM

23 **Session C** ..... 4:30-5:30 PM

BUSINESS PLAN COMPETITION

St. Charles Borromeo

28 **Judging (Convocation Hall)** ..... Noon-4:30 PM

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RELATED EVENTS

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COMMITTEE

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AS-155-A

Moderator: Dr. Huma Zia

Design in the World of Science

Undergraduate Student Project in Performing Arts

Audrey Pearson

Dr. Amanda Harsy

Bridging the gap between the general public and scientific researchers is an important part of aiding the community in understanding scientific findings. is presentation will discuss some of the issues and questions that are involved in visualizing scientific research. Specifically, we discuss the design issues involved in modeling DNA self-assembly using graph theory and mathematics.

The Role of Telomeres and Telomerase in Aging and Disease

Undergraduate Student Project in Math & Science

Jacob Timmons

SESSION II

2-3 PM

Polycyclic Aromatic Hydrocarbons and their Role in Breast Cancer

Undergraduate Student Project in Math & Science

Constantinos Panayiotides

Dr. Valerie Vander Vliet

Breast cancer is the leading diagnosis of cancer in women. Studies have shown that polycyclic aromatic hydrocarbons are linked to several kinds of cancer. e purpose of this presentation is to review the e ects that these common pollutants exhibit on mammary glands and to discuss possible mechanisms of action.

AS-156-A

Moderator: Prof. Bettie Komar

The Exonerated: A Look into the Current Reentry Process for the Wrongfully Convicted

Undergraduate Student Project in Social Sciences

Ana Trujillo

Dr. Carlene Sipma-Dysico

e Reentry process is one that has haunted the country for decades now, and for someone who has been wrongfully convicted, it makes life after prison almost as di cult as incarceration itself. e problems within the reentry system must be addressed, and the barriers to rebuilding a life after incarceration must be made public. e exonerated need a voice.

Di erences in Bereavement Between Military Combat and Civilian Homicide Deaths: Impact of Value-based Identity on Grieving

Aromatase Inhibitors in the Treatment of Pelvic Pain and Infertility Associated with Endometriosis

Undergraduate Student Project in Math & Science

Clarydyan Gray

Dr. Valerie Vander Vliet

Endometriosis is a gynecological condition that is characterized by endometrial tissue found outside of the uterus. Two major symptoms are pelvic pain and infertility. Current treatments for endometriosis include ovarian estrogen suppressants and surgery. Endometrial lesions have exhibited high levels of aromatase which initiate the production of estrogen, leading to lesion growth. e addition of aromatase inhibitors are able to control local estrone production in lesions without compromising fertility.

AS-156-A

Moderator: Dr. Erik Baker

Accuracy in Aviation Maintenance Planning

Graduate Student Project in Math & Science

Edgar Oviedo

Dr. Matthew Franklin

Scheduled (planned) maintenance for commercial airlines consist of nightly preventative maintenance tasks and inspections to keep aircraft airworthy (safe to fly). Individual maintenance tasks are each supposed to require a certain number of maintenance man-hours based on manufacturer recommendations and airline standards. However, tasks sometimes require more man-hours than what was originally planned, due to complications such as weather, experience level of the technicians, or scarcity of tools or parts. is study will compare tasks of planned man-hours to their actual required man-hours.

The Future Market for Large Unmanned Cargo Aircraft in the National Airspace System

Graduate Student Project in Business

Mark Collins

Dr. Erik Baker

Due to safety concerns and public perception of drone safety, it is believed that unmanned cargo aircraft will be developed before large scale use of autonomous passenger aircraft. erefore, this thesis examines the history of large unmanned cargo aircraft (LUCA), current and future regulations for use, future technology, potential economic impact, and future markets for enabling LUCA to fly in the national airspace system (NAS). is examination will also evaluate the limitations facing LUCA integration. ese include technology, security, safety, public perception, liability, and other limitations. It will also evaluate LUCA market opportunities to help provide insight for future LUCA stakeholder investment.

Evaluating a Functional Aircraft Cockpit Display for High Altitude Energy Management

Faculty Project in Math & Science

Doherty Center for Aviation and Health Research

Dr. Erik Baker

A repeated-measures, within-subjects design was conducted on 58 participant pilots to assess mean di erences on energy management (EM) situation awareness (SA) response time (RT) and response accuracy between a conventional electronic aircraft display, a primary flight display (PFD), and an ecological interface design (EID) aircraft display, the OZ concept display. EMSA is the perception, comprehension, and projection of the management of kinetic and potential energy of an aircraft. An initial hypothesis was that increased EMSA would decrease a flight crew's potential for loss of control-inflight (LOC-I) incidents.

AS-157-A

Moderator: Dr. Ibrahim Mescioglu

Educating Caregivers on Asthma Management Utilizing Innovative Pediatric Nursing Student Clinical Experiences

Undergraduate Student Project in Nursing

Casey Lakumb, Samantha Svihla

Prof. Anne McShane

Low-income families are at higher risk for chronic health conditions, necessitating e ective health promotion education for their caregivers. Pediatric nursing faculty and student nurses presented Asthma Management and Indoor

Enhancing Primary Care Interactions with Patient-Provider Partnerships

Graduate Student Project in Nursing

2 PM

ART EXHIBITION WINNERS

The President's 10th Annual Art Exhibition Winners

On display in the Brent and Jean Wadsworth Family Gallery, Oremus Fine Arts Center.

1ST PLACE

Bryan Sisk, "Depression," Photography and Acrylic

2ND PLACE

Larissa Barnard, "Mercury," Oil

3RD PLACE

Zachary Meredith, "The Way Life Goes," Acrylic

HONORABLE MENTION

Kayla Feigt, "Trapped in a Perfect World," Printmaking

Madeline Janich, "Tranquility," Photography and Graphic Design

Angela Morris, "Waiting," Pastels and Pastel Pencils

Jacqueline Nelson,

85 Green Loop Plan

Undergraduate Student Project in Social Sciences

Emily Guske, Jeremy Hutton, Lexi Laniewski

Br. Jose Martin Montoya Dura

Across the world, young people face social and environmental conflict. is project was created to bring serenity to high risk adolescents by implementing educational activities in natural areas. In turn, the areas selected will be environmentally sustained by the local community. e Green Loop Plan will help to ease social conflict while building a healthy relationship between humans and nature.

88 Incorporating AutoCAD Software in Preliminary Testing and Design of New Parts in Manufacturing

Undergraduate Student Project in Math & Science

Tyler Dundek

Prof. James Hofmann

is research focuses on working with a manufacturing company to generate computer models to test safety and stability of new machine parts.

91 A Study on the Durability of Performance Enhancing Swimwear

Undergraduate Student Project in Math & Science

Elizabeth Senese

Dr. Jason Keleher

is work studies the e ects of chlorine on swimwear that is designed to aid in athlete performance. e lifespan of this elite swimwear is incredibly short, believed to be the result of stretching and weakening of bonds between the fibers of the fabric. By looking at the e ects of the chlorinated water on the suit fabric, the wear on the suit can be examined on a chemical level.

94 Wireless Power Transmission

Undergraduate Student Project in Math & Science

Stephen Hiller

Dr. Joseph Kozminski

e primary focus of this research is understanding the WPT from one electromagnetic coil to another via power inversion and mutual inductance, as well as current and future applications.

97 Development of an Inexpensive SiPM-Based Muon Detector

Undergraduate Student Project in Math & Science

William Kostecka

Dr. Joseph Kozminski

In this study, a muon detector was constructed out of inexpensive components, including an Arduino Uno circuit board and a silicon photomultiplier (SiPM).

100 Comparison of Vert Sensors vs. Jump Mat in conjunction to Vertec

Undergraduate Student Project in Math & Science

Mohammad Shatat

Dr. Zach Binkley

is study will attempt to validate the two new ways to measure vertical jump height. We will take the collected data and compare them to the already reliable and validated vertec.

103 Improving Medication Education for Patients Applying SAID the MED

Undergraduate Student Project in Nursing

Beata Dziedzic, Bailey Sparkman, Madeline Seliga, Angela Rini, Kaitlyn Kman, Hollie Sinn, Sabrina Kaskowski

Prof. Katherine McDannel

e area of medication education for patients in a hospital setting illustrates a need for improvement. Adherence to a medication regimen can be improved through patient education during hospital admission. is presentation is meant to present SAID the MED as a creative approach for improving medication education to patients. is approach includes a 4-step method as an easy acronym for both patients and sta members to utilize.

106 Observations of Plasma Behavior Near Breakdown Voltage

Undergraduate Student Project in Math & Science

Michael Gromski, Joe McGuire

Dr. Joseph Kozminski

is project describes work on observations of plasma's behavior near breakdown voltage. e experiment allows presentation of a benchtop example of plasma behavior.

109 Conservation of the GAPC Gene Sequence Across Plant Species

Undergraduate Student Project in Math & Science

Alyssa Large

Dr. Sarah Powers

Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) is an important enzyme for glycolysis that can catalyze glyceraldehyde-3-phosphate (G-3-P) to 1,3-diphosphoglycerate. GAPDH is encoded by the gene GAPC in plants and is expected to be retained across plant species. GAPC genes from several oak and maple trees were cloned and aligned. Data annotation was performed by mapping intron-exon segments to determine the corresponding proteins that are built. A phylogenetic tree was built showing a common distant ancestor.

112 The Relationship Between Parental Divorce and Children's Deviant Behavior

Undergraduate Student Project in Social Science

Patrick Kenny

Dr. Andrea Krieg

e divorce rate in the United States is 40-50 percent (Anderson, 2014). Studies show that the divorce of a parent can induce depression and aggressive behavior, which can lead to deviant behavior (Kalter et al., 1989). e current study will contain qualitative research and a follow-up survey to test the e ects of parental divorce on a child's deviant behavior.

is research can be used to help parents ease their children through divorce.

SESSION B

3:15-4:15 PM

2 Muon ID Detector Simulation for the Mu2e Collaboration at Fermilab

Undergraduate Student Project in Math & Science

Jackson Waters

Dr. Ryan Hooper

As a part of the Mu2e experiment at Fermilab, the Muon ID detector system, which will detect muons, needs to be built. A realistic simulation for this detector will allow for the proper construction of this device.

5 Marxism Brings Two Texts Together: The Metamorphosis and A Raisin in the Sun

Undergraduate Student Project in Education

Nichole Olson

Dr. Jackie White

is essay studies the relationship between Franz Kafka's, e Metamorphosis and Lorraine Hansberry's, A Raisin in the Sun through a Marxist theoretical lens.

8 Stretching vs. Dry Needling: The Road to Recovery for Sprinters with Hamstring Strains

Undergraduate Student Project in Math & Science

Mercedes Porter

Dr. Laura McDonald

Hamstring strains are prevalent in sprinting. Traditional treatment consists of strengthening, stretching, and rehabilitation techniques similar to other muscle injuries. Dry needling has emerged as an additional technique that may provide treatment benefit by reducing muscle spasm and pain. A systematic literature search and critical appraisal of relevant articles did not yield enough evidence to support the use of dry needling over traditional rehabilitation techniques for sprinters with hamstring strains.

11 Predictive Modeling and Analysis of Softball Tournament Results Using Linear Algebra

Undergraduate Student Project in Math & Science

Carley Maupin

Dr. Amanda Harsy

is project regards predictive modeling and analysis of softball tournament results using linear Algebra.

14 Predictive Modeling and Analysis of Golf Teams Using Linear Algebra

Undergraduate Student Project in Math & Science

Marissa Koronkiewicz, Hannah Schultz, Austin Buente

Dr. Amanda Harsy

Using a weighted Massey Method to predict results for future golf tournaments could potentially lead to better predictions than just using win percentage. is is due to the ability to apply weights and incorporate factors outside of just past tournament results.

17 Modeling DNA Self-Assembly Using Graph Theory

Undergraduate Student Project in Math & Science

Quinn Stratton, Keller Dellinger, Simon Merheb, Audrey Pearson

Dr. Amanda Harsy

is poster explores the graph theoretical formalism of nanotube construction and related design strategy problems which arise from self-assembling DNA.

20 The E ectiveness of Lower Body Stretching in Order to Prevent Lower Body Muscle Strains

Undergraduate Student Project in Math & Science

Alexis Alzona

Dr. Laura McDonald

is research project analyzed the benefits of lower body stretching in order to prevent lower body muscle strains. In di erent sport settings, especially in the high schools, many teams neglect performing a good warm up and stretch or they are not executing the stretching techniques correctly due to time or simply lack of education. is is critically appraised topic can help to inform clinicians working in this population to decide if stretching will decrease injury incidence, resulting in improved function and overall health for the athletes.

23 Evaluation of Alzheimer's Disease with Neuronal Stem Cell Implementation

Undergraduate Student Project in Humanities

Michael Freeman

Dr. Laura McDonald

Alzheimer's Disease (AD), a neurodegenerative disease like dementia, is prevalent in adults ages 65 and older, with one in ten people demonstrating symptoms. Induced pluripotent stem cells (iPS) accept all tissue types in the body and may aid in identifying possible treatments for AD. is project performs a systematic review to investigate the e ects of implementation of iPS to increase the proliferation and di erentiation of neuroglia within patients with AD.

26 Nanophotonic Photoemitters with Enhanced Sensitivity

Undergraduate Student Project in Math & Scienc

Michael Sulwer

Dr. John Parker

Previous research indicated that by creating gold nanoparticle arrays and shining a light source through this array, it is possible to achieve a local light enhancement in the gaps between the nanoparticles in the array. e research involves developing techniques to allow for the development of nanoparticle arrays on the substrate of a light emitting diode (LED) using capillary self-assembly.

29 The E ects of Anxiety on Stroop Performance and Physiological Measures of Stress

Undergraduate Student Project in Social Science

Natalie Palm, Allison Trendle

Dr. Ann Jordan

e Stroop e ect measures an individual's cognitive inhibition and flexibility. e results support Stroop's findings that participants generally perform the fastest on Word Reading followed by Color Naming, Interference, and Switching. e results suggest that there was a significant di erence of some physiological measures of anxiety within subjects, with levels rising as task complexity increased. e results also suggest that anxiety level (high versus low) had no significant e ect on Stroop performance or physiological measures.

32 Examining Laboratory Notebook Practices in the Introductory Physics Lab

Undergraduate Student Project in Math & Science

Michael Zwartz

Dr. Joseph Kozminski

is presentation will discuss the changes in laboratory notebook beliefs and practices of physics students through three semesters of introductory lab work. Also, preliminary results on what methods of training are most beneficial to students will be shared.

34 Analysis of Alternative Splicing in Disease Associated Exons

Undergraduate Student Project in Math & Science

Doherty Center for Aviation and Health Research

59 Synthesis and Development of Core-Shell Polymer/Metal Nanoparticles

Undergraduate Student Project in Math & Science

Arielle Floyd

Dr. Jason Keleher

Polymers are versatile and found in various materials, such as food packaging and hospital equipment, which are susceptible to bacteria and mold. rough the addition of metal nanoparticles (MNP), the bactericidal e ect can be increased and used for the development of self-cleaning polymeric substrates. It was found that the addition of the co-monomer successfully modified the surface with hydrophilic functional groups to allow for the synthesis of polymer/metal nanoparticles with enhanced antimicrobial e ciency.

62 Implementation of Cost E ective Laboratory Experimentation for the High School Level and Higher Education

Undergraduate Student Project in Education

Lucas Kilmer

Dr. Joseph Kozminski

e purpose of this research is to produce cost e ective physics laboratory experiments to be

86 The Educational and Psychosocial Strategies Plan for Young People Near Land lls

Undergraduate Student Project in Social Sciences

Emily Guske, Jeremy Hutton, Lexi Laniewski, Samantha Parisi

Br. Jose Martin Montoya Dura

Children who live near landfills are at risk socially and environmentally. e Educational and Psychosocial Strategies Plan for Young

28 Gender and Criminal Justice Majors: An Application of the Myers-Briggs Type Indicator

Undergraduate Student Project in Social Sciences

Allison Trendle

Dr. Andrea Krieg

60 Children of Alcoholics

84 Probing the Interactions between CeO2 Nanoparticles and Novel Cleaning Solutions to Enhance Post-CMP Cleaning of Semiconductor Wafers

Graduate Student Project in Math & Science

Tala Zubi, Carolyn Graverson

Dr. Jason Keleher

Removing unwanted topography and achieving exceptional planarity for the fabrication of integrated circuits (IC) in the sub-micron regime utilizes shallow trench isolation (STI) to separate active circuits with a dielectric material, tetraethyl orthosilicate (TEOS). e goal of this work is to incorporate polyelectrolyte and surfactant-based cleaning solutions to serve as an alternative to traditional cleaning methods to remove ceria-based slurries.

87 Narrative Therapy and Teen Dating Violence

Graduate Student Project in Social Sciences

Gretchen Mayhood, Melissa Pierson

Prof. Martha Jarmuz

Adolescents who experience teen dating violence can benefit from Narrative erapy. Narrative erapy allows adolescents to re-author their story. In addition, Narrative erapy o ers these adolescents a non-blaming approach to counseling.

90 Evaluating the Impact of Shrinking Seat Size on Airline Safety

Graduate Student Project in Math & Science

David Slark

Dr. Erik Baker

is study involves research on the impact of airlines increasing seat density and its e ects on safety.

93 The E cacy of Emotion Focused Therapy in the Treatment of Anxiety

Graduate Student Project in Social Sciences

Megan Klee, Michele Dominguez, Kellie Marcus, Elena Ramos

Prof. Martha Jarmuz

is literature review will utilize studies to analyze the e cacy of Emotion Focused erapy on individuals with Anxiety Disorders. It is hypothesized by the researchers that these studies will find Emotion Focused erapy to have significant e ects in the treatment of anxiety disorders. e research provided would be helpful to those who have not had success with other popular treatment methods.

96 Stabilization of Pigment Dispersions for Automotive Paint Applications

Graduate Student Project in Math & Science

James O'Malley

Dr. John Parker

e solvent borne dispersion of Red 179 pigment requires the use of dispersant additives. e dispersant anchors onto the pigment surface to reduce flocculation and create a stable dispersion with low viscosity, high tint strength, and high chromaticity. Dispersants with di erent functionality were evaluated via adsorption isotherms, rheological behavior, and colorimetric properties. Milling parameters such as bead type, bead loading, and flow rates

108 Evaluating the Impact of SSR on Student Motivation and Achievement

Graduate Student Project in Education

Ashley Castillo Bahena, Dominique Dusek

Dr. Christopher Palmi

Many schools have adopted Sustained Silent Reading (SSR) programs in an e ort to combat a troubling trend in student reading performance and motivation to read. is reading-focused program provides students in-class opportunities to practice and cultivate reading skills through self-selected texts and regularly scheduled time to read. We examine the e cacy of SSR programs and identify characteristics by this and other successful voluntary reading models to synthesize best practices to improve reading achievement and motivation.

11 Synthesis and Characterization of a Wave-Shifting Plastic Scintillator

Graduate Student Project in Math & Science

Christian Loza

Dr. Joseph Kozminski

Scintillators, which are commonly used in medical imaging and particle detection, are materials that are able to absorb ionizing radiation and, depending on the media, emit photons at a lower energy.

114

Business Phone Application

Undergraduate Student Project

Sara Alashqar

Kristin Burton

is phone application assists business owners, corporations, and entrepreneurs to break international cultural barriers, with the purpose of ensuring goal attainment for startups and international expansion.

UpliFt

Undergraduate Student Project

Cache Binion

Kristin Burton

UpliFt is a real estate company that is designed to bring a new twist to the real estate structure. My company is designed to target poor neighborhoods with high populated areas of abandoned homes and apartment complexes. Our company will be successful in this market because it is the first real estate company of its kind to rehabilitate property and turn it over to the public by creating recreational centers, half-wahLTj/Span≮Actuau and aCache BuCID 3255 9Menil reCache aCache BuCID 3255 9Menil reCache aCache BuCID 3255 9Menil reCach 8.(en)9 (t)6 (

HOP (Smartphone App)

Undergraduate Student Project

Emma Stark, Melissa Merrithew

Fred Dewald

HOP is an app that allows users to easily plan a night out without the hassle and wasted time spent searching for the best spots. Individuals will be able to set custom filters for desired locations, times, price range, and party size all in one place. Select from a variety of categories to best fit the type of night one is looking for, i.e. karaoke, dance, sports bar, live music, etc. Once chosen, users will be guided from bar to bar via GPS for safe and easy travel. HOP, the way bar hopping should be.

Business Plan for Occupational Therapy Practice

Undergraduate Student Project

Rocio Torres

Dr. Zachary Binkley

is occupational therapist pediatric clinic will assist and collaborate with the child's family, other therapists and members of the team to provide treatment.

Nexo Products Inc.

Undergraduate Student Project

Alejandra Vargas

Dr. Je rey Trask

is company is designed to promote and sell high quality fruit from the Pacific coast of Mexico to the international markets. Our company also provides an opportunity to sustain and create economic opportunity for farmers in the region.

UAS Drone Program Consulting Service

Undergraduate Student Project

Sharon White

Kenneth Canada

I am providing a consulting service for the commercial use of Unmanned Aircraft Systems (drones). I will create for the client a business model for the safe deployment of the UAS within their specified discipline. is service does not end there. I will provide access to our supportive services in market leading drone manufacturers, including state-of-the-art software, safety management system, hardware procurement, support drone training and other services (such as insurance.) We will begin with an audit internal that will allow the agency to validate any assumptions about the viability of their unmanned drone project before committing further investment.

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RELATED EVENTS

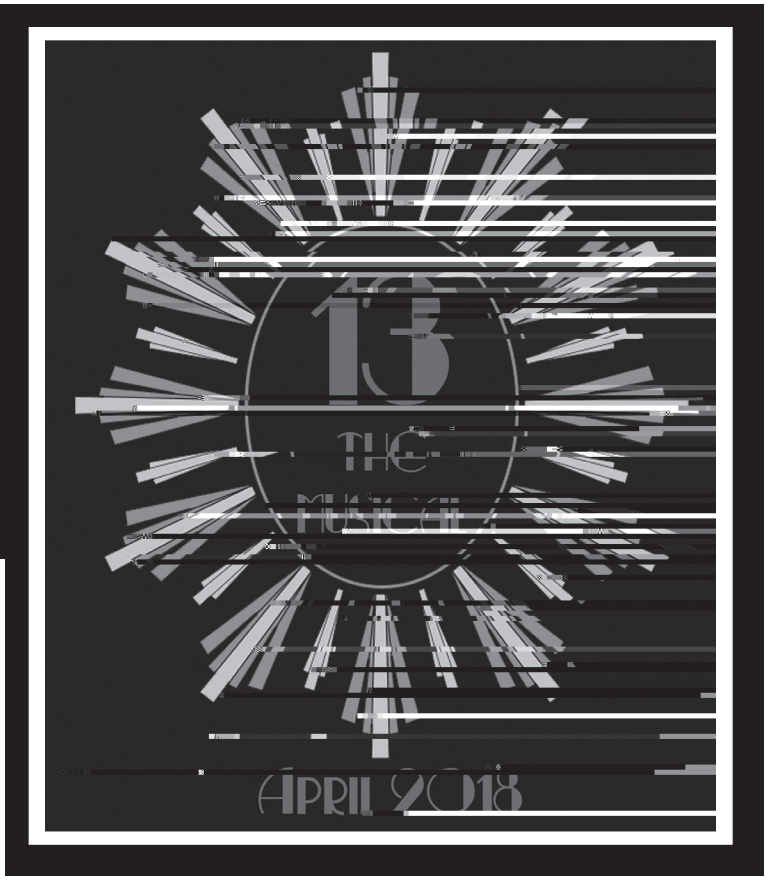
President's Tenth Annual Art Exhibition

Reception and Awards Ceremony: Thursday, April 26, 7-9 PM
On View: April 5-26, 2018

On View for Celebration of Scholarship: April 19, Noon-5:30 PM

Brent and Jean Wadsworth Family Gallery,
Oremus Fine Arts Center

Featuring highlights of Lewis University student and alumni artwork. is important juried exhibition is hosted by the Department of Art and Design and President Dr. David Livingston.



Philip Lynch Theatre Production of "13, the Musical" Directed by Keith White

Performances: April 20-22 & April 26-29, 2018

Geek. Poser. Jock. Beauty Queen. Wannabe. ese are labels that can last a lifetime. With an unforgettable rock score from Tony Award-winning composer, Jason Robert Brown, (Parade, e Last Five Years, Bridges of Madison County) 13 is a musical about fitting in – and standing out! Evan Goldman is plucked from his fast-paced, preteen New York City life and plopped into a sleepy Indiana town following his parent's divorce. Surrounded by an array of unsophisticated middle school students, he needs to establish his place in the popularity pecking order. Can he situate himself on a comfortable link of the food chain... or will he dangle at the end with the outcasts?