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MONDAY APRIL 22
9:15–11:45
SCIENTIFIC ORAL PRESENTATIONS
WATSON LITERACY CENTER CLASSROOM

9:15  **Impact of Artificial Intelligence in the Health Care Industry**
Nikki Dang, Senior – Biology
Artificial intelligence is increasing rapidly and is changing our society.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

9:30  **Pathogenesis of Vitiligo: A Brief Review of Current Literature**
Danna Gomes, Senior – Chemistry
Vitiligo is a rare disorder with complex etiology.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

9:45  **Ebola virus sequelae in Liberia**
Laurence Akakpo, Senior – Biology
Sequelae symptoms found in survivors of Ebola vs. close contacts symptoms with no Ebola history
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

10:00  **Cancer Therapy: A Case for an Animal-Based Ketogenic Diet.**
Brandon Koster, Senior – Biology
Removing plant foods and plant-derived produces like seed oils and supplements from the diet, while focusing on animal-based foods, including muscle meat and organ meats, shifts body metabolism and positively impacts gut permeability, resulting in an environment that slows cancer growth and proliferation by maintaining a state of ketosis and decreasing gut-related issues that impact disease progression.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

10:15  **The Effects Deficiencies within Hemostasis on Clotting**
Lauren Birkeness, Senior – Biology
This presentation will review the possible mutations and deficiencies of clotting factors during platelet plug formation thus preventing coagulation to occur during hemostasis.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

10:30  **Medical Advances in Stem Cell Research**
Sabrina Morris, Junior – Biology
The current and future medical advances that can be made using stem cell research.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

10:45  **Toward the synthesis of 2,4,6-trimethyl-1,3,5-benzenetriacetic acid.**
Logan Trowbridge, Senior – Chemistry
Work toward the synthesis of a human D2 dopamine receptor mimic
*Mentor: Donna Jean, Assoc. Professor of Chemistry*
11:00 Contaminant Affecting local water
Elizabeth Rubio, Senior – Biology
Contaminants enter the surrounding groundwater which affects the growth of plants and pollute the drinking water that animals and humans use daily.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

11:15 Solar Energy
Marcus Sinlak, Senior – Biology
I’ll be talking about solar energy.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*

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**MONDAY APRIL 22**
**9:30 – 12:00**
**VISUAL ART PRESENTATIONS**
**PARK AVENUE**

**Artistic Development of the Past Year**
Elisabeth Fleischmann, Senior - Biology & Fine Art
A selection of artistic works from the past year, in varying mediums and styles.
*Mentor: Professor Andrea Lee, Asst. Professor of Art*

**Expressions**
Madelyne Hartleroad, Junior – English
A showcase of artistic experiments and experiences.
*Mentor: Professor Lynn Richardson-Ludwigs, Inst. of Art*

**Dabblings of an Artist**
Sadie Johnson, Junior – Fine Art
From handspun yarn to black and white photography, I present to you the things that Park’s professors have taught me during my time here.
*Mentor: Professor Christopher Lowrance, Inst. of Art*

**Giraffe: A study of shape**
Tracy Rogers, Senior – Interior Design
This is a wire sculpture that explores the element of shape.
*Mentor: Lynn Richardson-Ludwigs, Inst. of Art*

**Waterfall**
Tracy Rogers, Senior – Interior Design
This piece is a study of a 3 dimensional design, and is a waterfall cut from the pages of a book.
*Mentor: Lynn Richardson-Ludwigs, Inst. of Art*
Balancing
Tracey Rogers, Senior – Interior Design
Sometimes we attempt to balance the fragile existence of who we are, while the weight of life and obligations seems to pull us to the very edge of destruction.
*Mentor: Christopher Lowrance, Inst. of Art*

Monsters of Metal
Courtney Ross, Sophomore – Fine Arts
A combination of several 70 – 80’s hair metal fashion and brand advertisements with ancient Roman and Greek mythology.
*Mentor: Andrea Lee, Asst. Professor of Art*

Suicide Prevention: Saving the Youth
Faith Wiggans, Junior, Nursing
Power point presentation on Suicide Prevention.
*Mentor: Kathy Jackson, Asst. Professor of Nursing*

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**MONDAY APRIL 22**
**9:30 – 12:00**
**GRAPHIC DESIGN PRESENTATIONS**
**PARK AVENUE**

The Magical & Macabre
Clara Elena Zarate, Junior – Graphic Design
A series of works created while experimenting with traditional and digital mediums that depict a variety of subject matters.
*Mentor: Jeff Smith, Asst. Professor of Graphic Design*

York Travel Campaign
Lexus Brown, Senior, Graphic Design
It’s a travel campaign promoting the city of York, UK.
*Mentor: Jeff Smith, Asst. Professor of Graphic Design*

Oulu Travel Campaign
Lindsay Halter, Senior, Graphic Design
A mock full scale travel campaign to Oulu, Finland, designed and crafted by myself.
*Mentor: Jeff Smith, Asst. Professor of Graphic Design*

Kyoto Travel Campaign
Colin D. McMahon, Senior, Graphic Design
A travel campaign advertising Kyoto, Japan.
*Mentor: Jeff Smith, Asst. Professor of Graphic Design*
Santorini Travel Campaign
Kamryn Rusbarsky, Senior, Graphic Design
A senior level project that is a promotion for a tourist destination. The project includes the display for Santorini, Greece with information on the destination while having an eye catching design.
Mentor: Jeff Smith, Asst. Professor of Graphic Design

MONDAY APRIL 22
1:00–3:30
INTERIOR DESIGN
PARK AVENUE

Sports Design
Brandon Corbin, Senior – Interior Design
A club zone to an NFL Stadium that amplifies the fan experience.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

Interior Design Senior Project: Sizzle Grille
Grace DeYoung Daniels, Senior – Interior Design
An interior design capstone project of an upscale steak and seafood restaurant in the Kansas City area.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

Rose Residence
Amy Famen, Senior – Interior Design
The valleys and mountains coated in the colors of autumn was the inspiration for the space; the home creates relaxing space that brings the outdoors indoors.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

Grace Devine Worship Center
Jennifer Jenson, Senior – Interior Design
Biophilic design connects nature and humans within the designed environment.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

Smörg
Regina Emad Kheir, Senior – Interior Design
A representation of the effects of lighting and ambiance on experience and usability of a space.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

UnI Chair
Tracy Rogers, Senior – Interior Design
The UnI chair, standing for “You and I,” is designed as a shared sitting experience for an adult and/or child, with one side an adult lounge chair a child can climb on with you, and the other a child size seat and climbing/play area.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary
Copper Tree by the Sea
Tracy Rogers, Senior – Interior Design
A comprehensive view of a Hospice House Design, complete with research, floor plan, perspectives, elevations and materials.
*Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary*

The Octave Hotel Argyle
Errin Sharp, Senior – Interior Design
The adaptive re-use of a historic property from an office building to a high end hotel and restaurant.
*Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary*

ARBOUR Restaurant
Camilla Willoughby, Senior – Interior Design
The significance of this design is to utilize a sustainable design philosophy that encourages decisions at each phase of the design process reducing negative impacts on the environment and the health of the occupants, without compromising the bottom line. This project integrates a holistic approach that encourages compromise and tradeoffs by positively impacting all phases of a building’s life-cycle, including design, construction, and operation.
*Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary*

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**MONDAY APRIL 22**
1:30–3:45
**ORAL PRESENTATIONS**
**WATSON LITERACY CENTER CLASSROOM**

1:30  **Innovation and Emerging Technology in the Public Sector**
James Zachary Jarrard, Masters Program – Information Systems & Business Analytics
This paper will examine trends in innovation and technology in government.
*Mentor: Susan Keim, Asst. Professor of Public Administration*

1:45  **Gamifying Government**
James Zachary Jarrard, Masters Program – Information Systems & Business Analytics
Dr. Susan Keim, Assistant Professor of Public Administration
This presentation is going to explore gamification in the public sector and transferable skills.

2:00  **Find Your Future**
Emilie Heston, Senior – Multimedia Journalism and Public Relations
Promotional marketing campaign for Park University.
*Mentor: Kristin Shaw, Lecturer in Communication, Journalism, and Public Affairs*

2:15  **Translations**
Madelyne Hartleroad, Junior – English
A poem about untranslatable words that describe nature.
*Mentor: Glenn Lester, Asst. Professor of English*
2:30 Pre-exposure Improves Connections
Erica Moore, Senior – English
Can the pre-exposure of lesson materials help writers make better connections to writing prompts?
Mentor: Glenn Lester, Asst. Professor of English

2:45 China Through the Ages
Henry Franklin, Junior – History
An analysis of Chinese history and how it influences their interactions with the outside world.
Mentor: Jack MacLennan, Asst. Professor of Political Science

3:00 vPark: Cybersecurity Labs in the Cloud
Calvin McElroy, Senior – Information and Computer Science
Jacob Addison, Senior – Information and Computer Science
Testing GENI's shared academic infrastructure to teach cybersecurity in a secure lab environment.
Mentor: Yongzhi Wang, Asst. Professor of Computer Science

3:15 Space Planning for a Hospice Environment
Tracy Rogers, Senior – Interior Design
This research paper explores the hospice philosophy, the complexity of the building space, the ambiance of space, as well as space planning and adjacency for hospice house environment.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary

3:30 Impacts of Restaurant Seating on Customer Satisfaction
Grace DeYoung Daniels, Senior – Interior Design
A summary of a research paper exploring the impacts of restaurant seating design on customer satisfaction.
Mentor: Roxann Sherrodd, Asst. Professor Art, Design, and Interdisciplinary
Virtual Reality Exposure Therapy
Jessie Arms, Masters Program – Social Work
My research project entails an educational presentation to social workers at the Dwight D. Eisenhower VA Medical Center to determine if they would implement the presented therapy into the practice with veterans.
*Mentor: Geri Dickey, Asst. Professor of Social Work*

The Love Life Bag Program
Abby Marder, Masters Program – Social Work
The Love Life Bag Program is a condom distribution program within a HUD family housing community geared towards reducing stigma around condoms and condom use.
*Mentor: Geri Dickey, Asst. Professor of Social Work*

Alexa, Play the Future: A Three-Sector View
James Zachary Jarrard, Masters Program – Information Systems & Business Analytics
This poster will examine how Amazon Alexa is used in the public, private, and nonprofit sectors.
*Mentor: Susan Keim, Asst. Professor of Public Administration*

Statistical Analysis of Improved Student Performance Using Adaptive Learning in Chemistry
Kaitlyn Branstetter, Senior – Chemistry
Standardized exam scores for students in two years of CH105 were compared to time and mastery data within an adaptive learning program. Trends for effectiveness of the program on student learning outcomes will be presented.
*Mentor: Donna Jean, Assoc. Professor of Chemistry*

Investigating Interferences Between Enamel Paints and Luminol in a Forensics Science Setting.
Adrianna McMullen, Senior – Chemistry
This research is the continuation of an independent honors research project focusing on the interference between enamel based paints and luminol causing false positives.
*Mentor: Donna Jean, Assoc. Professor of Chemistry*

Straightening Identities for Twisted Multiloop Algebras
Montana Miller, Senior – Mathematics
We have formulated identities for reordering the products of the non-commutative elements in some twisted multiloop algebras.
*Mentor: Samuel Chamberlin, Assoc. Professor of Mathematics*
Trees: A Natural Resource
Lyndsey Fowks, Senior – Interdisciplinary Studies
This project was created to synthesize information on the usability and necessity trees, forests, and plantations are to humans and the sustainability of their manufacturing.
*Mentor: David Fox, Inst. of Geography*

Groundwater Depletion
Jacqueline Perry, Sophomore – Interdisciplinary Studies
My presentation will be about groundwater depletion and the negative affects it has on humans and the environment.
*Mentor: David Fox, Inst. of Geography*

Commercial Honey Bees, A Resource
Steven Payne, Senior – Geography
Honey bees are a two-pronged human resource, being utilized for the pollination of commercial crops and providing several valuable commodities directly (honey, nectar, wax), but the challenges they face as a species not only have economic impacts for humans but underline environmental issues that threaten all invertebrate pollinators.
*Mentor: David Fox, Inst. of Geography*

Smarter than Meth
Amanda Edwards, Senior – Nursing
Methamphetamine education to increase awareness, treatment, and prevention of this huge problem within our society.
*Mentor: Kathy Jackson, Asst. Professor of Nursing*

Computer Networking Internship at Team Logic IT
Jonah Altenburg, Senior – Computer Science/Networking
Semester long internship at a local IT outsourcing firm.
*Mentor: Wen Hsin, Professor of Computer Science*

Robot Automation in Agriculture- Technology
Olivia Mark, Junior – Computer Science
An exploration into automation engineering with Robot Framework at agriculture-technology company, Farmobile.
*Mentor: Wen Hsin, Professor of Computer Science*
Presented by the Department of Political Science
This panel of faculty from institutions around Kansas City will discuss US military involvement since 9/11 from their various research perspectives.

Discussant: Dr. Jack Adam MacLennan
Assistant Professor of Political Science, Department of History, Political Science, and Interdisciplinary Studies, Park University

Dr. Brittnee A. Carter
Assistant Professor, Department of Political Science, University of Kansas

Dr. Rebecca Best
Assistant Professor, Department of Political Science, University of Missouri – Kansas City

Dr. Fletcher Cox
Assistant Professor of Political Science, Department of Political Science, William Jewell College

Dr. Luck Campbell
Assistant Professor of Political Science, Department of Humanities and Social Sciences, Northwest Missouri State University

2:00  Building a Brand
Mallory Hughson, Senior – Graphic Design & Business Administration/Marketing
My presentation will give an in-depth look into how principles of both Marketing and Design work together to contribute to the building of a brand.
*Mentor: Jeff Smith, Asst. Professor of Graphic Design*

2:15  The Ability and Uses on an Arduino Rover to Navigate and Map Limited Pathways
Christian Leonard, Senior – Mathematics
Using an Arduino microcontroller, this project aims to create an Arduino Rover-style car that can be remotely controlled and navigated through spaces and pathways people may not be able to go. Through the use of ultrasonic sensors, the goal of the Arduino Rover is to maneuver an enclosed maze based off the readings from onboard sensors, then using that information, draw a map of the maze on the user’s computer.
*Mentor: Alexander Silvius, Assoc. Professor of Physics*
2:30 Straightening Identities In Twisted Multiloop Algebras  
Daniel Davidson, Senior – Mathematics  
Our research lies in Lie algebra, specifically twisted multiloop algebras; we have developed formulas for straightening some products in these algebras.  
Mentor: Samuel Chamberlin, Assoc. Professor of Mathematics

2:45 From Discrete Dissections to Artistic Animations: The Evolution of Medical Illustration alongside Medicine  
Elisabeth Fleischmann, Senior – Biology & Fine Art  
This project examines the development of anatomical illustration and medicine from the Renaissance until present day, including accompanying artistic works and studies.  
Mentor: Andrea Lee, Asst. Professor of Art

3:00 Violin Works of the Boston Six  
Jessica Tandy, Senior – Violin Performance  
A study of the musical style and contributions of late nineteenth-century New England composers.  
Mentor: Steven McDonald, Director of Orchestral Activities

3:15 Inquiry-Based Learning  
Kenna Monthei, Senior – Secondary Education – Biology  
Throughout this presentation, I will describe the effectiveness and practicality of inquiry-based learning in the high school classroom.  
Mentor: Linda Seybert, Assoc. Professor of Education

3:30 Management In Diversity  
Kyndal Reents, Senior – International Business  
Research exploring the best form of management for a diverse world and workforce.  
Mentor: Silvia Byer, Professor of Modern Languages

3:45 An Exploration of Racial Misconceptions within Video Advertising at Major Public American Universities  
Ginna Verhoff, Senior – Sociology  
This study explores the existence of racial misconceptions in video advertising of major public American universities to determine whether they contribute to the perpetuation or eradication of racial inequality.  
Mentor: Monica Brannon, Asst. Professor of Sociology

4:00 An exploration of the effectiveness of the sustainable movement at the University of Canterbury  
Lyndsey Fowks, Senior – Interdisciplinary Studies  
This research project was conducted via qualitative interviews to understand how the university-funded sustainable movement impacted individuals at the University of Canterbury in Christchurch, New Zealand.  
Mentor: Rusty Norris, Inst. of Communication

4:15 TBD  
Emily Raffety, Senior – Social Work  
Mentor: Eugene Matthews, Assoc. Professor of Criminal Justice
What does the rise of China mean for global order and American foreign policy? This collection of papers from students at Park University explore the various ways in which the rise of China will influence world politics in the future.

Discussant: Amb. (Ret). Eunice Reddick
2019 DACOR Visiting Professor of Diplomacy, Command and General Staff College, Fort Leavenworth, KS

Panel:
Don’t Panic! Realism and China
Thomas Vadbunker, Senior - History

Elastic Liberalism: The Limits of China’s Rise
Gregory Melham, Senior – Political Science

China: Lessons from Past Empires
Madison Manley, Junior – History

Military Spending in China: Should We Be Worried?
Jaden Box, Junior – Public Administration
2019 Symposium
Sponsored by the Park University Honors Academy

College of Liberal Arts and Sciences: James Pasley, Dean
Patricia Ryberg, Director
Assisted by
Glenda Holder

We would like to thank the Park University students, faculty, and staff who participated to make this even possible