SEVENTH ANNUAL

STUDENT
RESEARCH AND
CREATIVE ARTS
SYMPOSIUM

MONDAY, APRIL 9
THROUGH
THURSDAY, APRIL 12
Modeled after a professional conference environment, the Student Research and Creative Arts Symposium provides a platform to showcase student work from class, independent and/or collaborative research and experiential learning. The Symposium’s purpose is to develop and strengthen ties across Park University. The event achieves this by providing students, faculty, administrators and staff an opportunity to learn about the types of student research occurring at Park University.
Park University
Seventh Annual
Student Research and Creative Arts
Symposium Schedule

MONDAY, APRIL 9
Art and Design Exhibits (11:30 a.m. – 1 p.m.)
Academic Underground

AD-1
Laura Korenak
2011-2012 New Works
Mentor: Donna Bachmann
Discipline: Fine Art

AD-2
Valerie Jahraus
J.T.
Mentor: Donna Bachmann
Discipline: Fine Art

AD-3
Rosa Tarantola
Body Study
Mentor: Donna Bachmann
Discipline: Fine Art

AD-4
Emily Thompson
Andrew Devero
Sarah Helgerson
Ashley Hill
Don Hill
Abby Holloway
Valerie Jahraus
Laura Korenak
Faith Stemmler
Emily Thompson
Jillian Torres
Squares!
Mentor: Donna Bachmann
Discipline: Fine Art

AD-5
Danielle Pearson
Out of the Box
Mentor: Jeff Smith
Discipline: Graphic Design

AD-6
Anna Schmalz
The World of Cheese
Mentor: Jeff Smith
Discipline: Graphic Design

AD-7
Rudar Manning
Museum
Mentor: Jeff Smith
Discipline: Graphic Design

AD-8
Samuel Nevils
Museum Display
Mentors: Jeff Smith, Ryan Sullivan
Discipline: Graphic Design

AD-9
Katherine Clark
Type in Photography
Mentor: Frank Hamilton
Discipline: Photography

AD-10
Elisha Bailey
Photography
Mentor: Frank Hamilton
Discipline: Photography

AD-11
Jordan Wandfluh
Photographs of Life in China
Mentor: John Lofflin
Discipline: Communication Arts

AD-12
Stephanie Weddle
University Student Union
Mentor: Kay Boehr
Discipline: Interior Design
AD-13
Kate Fitzgerald
*Historic Preservation Design*
Mentor: Kay Boehr
Discipline: Interior Design

AD-14
Holly Painter
*The Alley*
Mentor: Kay Boehr
Discipline: Interior Design

AD-15
Julie Knapp
*New Orleans Home*
Mentor: Kay Boehr
Discipline: Interior Design

AD-16
Leslie Goldhahn
*Savoy Hotel Design*
Mentor: Kay Boehr
Discipline: Interior Design

AD-17
Maggie Goss
*Urban Grocery Coffee Shop*
Mentor: Kay Boehr
Discipline: Interior Design

AD-18
Hilary Brown
*Alternative Office Design*
Mentor: Kay Boehr
Discipline: Interior Design

AD-19
Wanwan Hao
*Argo Tea Store*
Mentor: Kay Boehr
Discipline: Interior Design

AD-20
Biljana Andonovski
*Innovative Preschool*
Mentor: Kay Boehr
Discipline: Interior Design

AD-21
Stephanie Weddle
*Cardboard Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-22
Julie Knapp
*The Arc Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-23
Leslie Goldhahn
*The Orchid Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-24
Melissa Slinkard
*The Bandage Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-25
Alexandria Hahn
*Euclid Cardboard Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-26
Ashley Comfort
*Cardboard Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-27
James Smolen
*Golden Ratio Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-28
Andrea Breer
*Cardboard Chair*
Mentor: Jason Ayers
Discipline: Interior Design

AD-29
Binderiya Boroldoi
*Inner Space Design Firm*
Mentor: Kay Boehr
Discipline: Interior Design
P-1
Tiffany Yaviccolli
Cierra Bossart
Regina Boykin
Shirley Layne
Silpa Risal
Claire Wells
*American Century Investments*
Mentor: William Venable
Discipline: Management

P-2
Daniela Irwin
Nikola Gagic
Ulvi Mehdiyev
Kiely Lundy
Lekeisha McFarland
*Garmin*
Mentor: William Venable
Discipline: Management

P-3
Leah Rimel
Yueh Tian
Jeffery Miser
Andres Uribe
Michael Greene
*Russell Stover*
Mentor: William Venable
Discipline: Management

P-4
Juan Corona
Kristian Dodds
Michael Elliott
Jesse Stroud
Francis Nolan
Andrew Kamande
*Kansas City Southern Industries*
Mentor: William Venable
Discipline: Management

P-5
Varapan Promboobpa
Vanessa Lawrenz
Eric Zorn
Mark Halsell
Anthony Lober
Nomin Belegbayar
*Kansas City Power and Light*
Mentor: William Venable
Discipline: Management

P-6
Vince Langkamp
Suvd Oyun-Erdene
Alexander Jeschke
Vinicius De_Moraes Baigan
Oybek Fazilov
Nora Gedei
*The Children’s Mercy Hospitals & Clinics*
Mentor: William Venable
Discipline: Management

P-7
Hank Driskell
Johnathon Renner
Maria Blythe
Tayler Lentz
Renata Meth
*Waddell and Reed*
Mentor: William Venable
Discipline: Management

P-8
Chris Dameron
Brandi Cook
Paul Yochim
Elizabeth Castro
Gabriela Garcia
*Carter Energy*
Mentor: William Venable
Discipline: Management
P-9
Rory Osborne
Tempest Linn
Tyler Price
Melvin Gatson
Josh Evans
DineEquity
Mentor: William Venable
Discipline: Management

P-10
John Paul Giordano
Liu He
Karina Calzada
Luke Ganzer
Andera Lokule
Anthony Mburu Kamande
Sprint
Mentor: William Venable
Discipline: Management

P-11
Roberto Carrion Ceballos
Jacob Fichman
Kiefer Mergen
Michael Onwumere
Todd Smith
Molly Zarges
Hallmark Cards
Mentor: William Venable
Discipline: Management

P-12
Matthew Skare
Frank Garcia
Kuierra Swift
Effect of Hamstring Flexibility on Performance
Mentor: Thomas Bertoncino, Ph.D.
Discipline: Athletic Training

P-13
Kristin Daulton
Nathan Gordon
The Effect of Interferential Current on an Athlete’s Perceived Pain Level
Mentor: Thomas Bertoncino, Ph.D.
Discipline: Athletic Training

P-14
Kelli Hummel
Megan Shepherd
The Relationship between Physical Activity and Self-Esteem
Mentor: Thomas Bertoncino, Ph.D.
Discipline: Athletic Training

P-15
Noreka Thomas
What’s Really Going On: AIDS/HIV
Mentors: Ronald Brecke, Ph.D.
Don Williams, Ph.D.
Discipline: Legal Studies

P-16
Kristen Robinson
Content Analysis: New York Times Coverage of the Exxon Valdez vs. BP-Deepwater Horizon
Mentor: John Lofflin
Discipline: Public Relations

P-17
Stacey Lakes
Angelica Hodgdon
Kaci Lauritzen
Achilles Shield: The Beauty within the War
Mentor: Lolly Ockerstrom, Ph.D.
Discipline: English

P-18
Kelli Martin
Miranda Underwood
Lauren Keller
Homer’s Odyssey: The Great Rooted Bed
Mentor: Lolly Ockerstrom, Ph.D.
Discipline: English

P-19
Caleb Roye
Kyle Hamilton
Sunnat Ibragimov
Nathan Huang
The Kingdom of the Dead: Homer’s Portrait of the Greek Afterlife in The Odyssey
Mentor: Lolly Ockerstrom, Ph.D.
Discipline: English
P-20
Tiffany Benson
Stacey Russell
Lauren Montgomery
Kristin Carney
Early Sophists
Mentor: Lolly Ockerstrom, Ph.D.
Discipline: English

P-21
Carolyn Tragasz
Wounded Warriors and Feisty Females: Gender Portrayal in A Beautiful Mind, Chicago, and Million Dollar Baby
Mentor: Virgil “Rusty” Norris
Discipline: Liberal Studies

P-22
Janek Sunga
Melvin Jackson
A Brief History of Elvish, Naâ vi, and Klingon
Mentor: Patricia Marsh, Ph.D.
Discipline: Psychology

P-23
Rebekah Purvis
Melvin Jackson
Taylor Whipple
Ryan Walstrom
Mallorie Crawford
Dustin Beard
An Analysis of the Effect of Movie Genre on Time Perception
Mentor: Patricia Marsh, Ph.D.
Disciplines: Psychology

P-24
Alexander Jobe
The Clean Air and Clean Water Acts
Mentor: David Yates
Discipline: Natural Science

P-25
Lily Dixon
Allelopathy of Garlic Mustard on Common Plants
Mentor: Don Williams, Ph.D.
Discipline: Biology

P-26
Brooke Miles
The Analysis and Comparison of Ascorbic Acid Levels in Heirloom and Hybrid Solanum Lycopersicum (Tomato) Plants
Mentor: Don Williams, Ph.D.
Discipline: Biology

P-27
Frances Venable
Evaluation of the QuEChERS Method for the Detection of Pesticides
Mentor: Gregory Claycomb, Ph.D.
Discipline: Chemistry

P-28
Kelley Stauch
Various Invertebrates Associated with the Southern Flying Squirrel (Glaucomys Volans) Nests
Mentor: James Taulman, Ph.D.
Discipline: Biology

P-29
Miki Katuwal
The ‘Crosstalk’ Between Two Evolutionary Closely Related ABC Transporters in Bacillus Subtilis
Mentor: Brian Hoffman, Ph.D.
Discipline: Biology

P-30
Biljana Andonovski
Inner Space Design Firm
Mentor: Kay Boehr
Discipline: Interior Design
MONDAY, APRIL 9
Oral Presentations (3 – 4:30 p.m.)
Park Distance Learning, Room MA

PDL-MA

3-3:15 p.m.
Ornella Dieng, Biology
A Preliminary Survey of the Trees on the Park University Campus, Parkville, Mo.
Faculty Mentor: Don Williams, Ph.D.
Abstract: Samples of trees were collected, identified and located with a global positioning system.

3:15-3:30 p.m.
Kristin Beck, Biology
The Effect of Supplementation of Beta-Alanine in Women
Faculty Mentor: Don DeCanio, Ph.D.
Abstract: Women were supplemented with beta-alanine and tested to see if anaerobic performance was affected.

3:30-3:45 p.m.
Tomi Lazarov, Biology
Zinc Finger Proteins: The Future of Gene Targeting
Faculty Mentor: Don Williams, Ph.D.
Abstract: The use of zinc finger proteins as a tool for gene targeting.

3:45-4 p.m.
Tomi Lazarov, Biology
The Trials, Tribulations and Benefits of an Honors Project
Faculty Mentor: Don Williams, Ph.D.
Abstract: A personal journey through the Honors Program: How an honors project is developed, the problems that arise and the benefits that come with it.

4-4:15 p.m.
Brooke Miles, Biology
The Analysis and Comparison of Lycopene Levels in Heirloom and Hybrid Solanum Lycopersicum (Tomato) Plants
Faculty Mentor: Don Williams, Ph.D.
Abstract: Analysis of heirloom versus hybrid tomato fruits for their lycopene content.

4:15-4:30
Lauren Karley, Biology
Antibacterial Effects of Grape Seed Extract
Faculty Mentor: Brenda Royals,
Abstract: The grape seed extract is widely used as an anti-microbial homeopathic remedy for infections. This research supports the claim that grape seed extract inhibits the growth of Staphylococcus epidermidis.
PDL-MA

1:30-1:45 p.m.
**Cody Croan**, English (Writing)
*A Modern Epic: Pride and the Battle of the Bulge*
Faculty Mentor: Lolly Ockerstrom, Ph.D.
Abstract: A modern epic poem about an American soldier’s experience in the Battle of the Bulge, a key battle of World War II.

1:45-2 p.m.
**Nadejda Bucsan**, Business Administration (Management)
*Leadership and Its Outcomes: Learning Through Experience*
Faculty Mentor: Michael Martin
Abstract: A determination of the direct and indirect outcomes of student leadership experiences in college and the impact on a student’s career.

2-2:15 p.m.
**Sara White**, Spanish
*History of Caribbean Dance*
Faculty Mentor: Judith Richards, Ph.D.
Abstract: An oral and visual presentation on the history of Caribbean music, including a short performance.

2:15-2:30 p.m.
**Jasey Huber**, English (Writing)
*Benefits of Bilingual Immersion Programs*
Faculty Mentor: Silvia Byer, Ph.D.
Abstract: The cognitive benefits of people who are fluent in more than one language and an explanation of why foreign languages should be required in every school curriculum.

2:30-2:45 p.m.
**Micah Gutweiler**, English (Writing)
*The Madness of Montresor: Poe’s Cask of Amontillado Diagnosed*
Faculty Mentor: Emily Donnelli-Sallee, Ph.D.
Abstract: An essay in which Montresor, from Poe’s *Cask of Amontillado*, is diagnosed as suffering from Antisocial Personality Disorder.

2:45-3 p.m.
**Brady Hanssen**, English (Writing)
*There Will Come Hard Humanity*
Faculty Mentor: Emily Donnelli-Sallee, Ph.D.
Abstract: An analysis of Ray Bradbury’s *There Will Come Soft Rains* with the literary theory of ecocriticism.

3-3:15 p.m.
**Caleb Roye**, English (Literature)
*Into the Wild: London, Tolstoy and the Creation of Alexander Supertramp*
Faculty Mentor: Stephen Atkinson, Ph.D.
Abstract: An examination of the way Christopher McCandless, a hitchhiker found dead in the Alaskan wilderness, would have read the works of Jack London and Leo Tolstoy.
PDL-MB

1:30-1:45 p.m.

**Biljana Andonovski**, Interior Design  
*Infinity Mammography Clinic*  
Faculty Mentor: Kay Boehr  
Abstract: The symbol for “Infinity” is the main inspiration for the design of a mammography clinic.

1:45-2 p.m.

**Cortney Manning**, Business Administration (Marketing)  
*Child Labor: An Ever-Present Issue*  
Faculty Mentor: Cathy Taylor, Ph.D.  
Abstract: Child labor has long been an issue around the world, despite differing cultures and values, but improved economies and new laws can minimize its use.

2-2:15 p.m.

**Rafaela Chaves**, Graphic Design  
*The Evolution of Animation*  
Faculty Mentor: Beverly Bohn  
Abstract: Animation uses a wide range of technologies, offering a variety of high definition animation to the viewer. This paper will illustrate how technology has affected its evolution.

2:15-2:30

**James Bamber**, Software Engineering  
*The Problem of Technological Waste*  
Faculty Mentor: Beverly Bohn  
Abstract: A discussion of the problems of nuclear waste produced by power plants, including citizens’ fears, location and storage.

2:30-2:45

**Bryce Johnson**, Biology  
*Methyl Anthranilate as an Effective Method of Bird Deterrence in Nature with the Availability of an Alternate Food Source*  
Faculty Mentor: James Taulman, Ph.D.  
Abstract: The effectiveness of methyl anthranilate as a bird deterrent in nature and whether its application to the airport environment is realistic.

2:45-3 p.m.

**Zhilwan Rahim**, Biology  
*Body Adiposity Index or Body Mass Index*  
Faculty Mentor: Carol Sanders, Ph.D.  
Abstract: An analysis of the correlation of Body Adiposity Index (BAI) and blood pressure, and whether BAI is a better measure and predictor of high blood pressure as opposed to the traditional Body Mass Index.

3-3:15 p.m.

**Alexander Jobe**, Biology  
*The Effectiveness of Hydrastis Canadensis as an Anti-Microbial Growth Inhibitor for Escherichia Coli and Staphylococcus Epidermidis*  
Faculty Mentor: Brenda Royals  
Abstract: This research seeks to determine the ability of Goldenseal (Hydrastis canadensis), a medicinal herb, to inhibit the growth of gram-negative and gram-positive bacteria.
WEDNESDAY, APRIL 11

Musical Performances (2 – 5 p.m.)
Graham Tyler Memorial Chapel

Matej Polasek, violin
Major: Applied Music
Tzigane
By: Maurice Ravel
Mentor: Ben Sayevich
Accompanied by: Lolita Lisovskaya-Sayevich, piano

Magdalena Maslanova, violin
Major: Applied Music
Introduction and Rondo Capriccioso in A Minor, op.28
By: Camille Saint-Saëns
Mentor: Ben Sayevich
Accompanied by: Lolita Lisovskaya-Sayevich, piano

Christian Fatu, violin
Major: Violin Performance
Violin Sonata No. 3
By: Eugene Ysaye
Mentor: Ben Sayevich

Shokhrukh Sadikov, viola
Major: Viola - Music Performance
Morpheus
By: Rebecca Clarke
& Clarinet Trio op. 114
By: Johannes Brahms
Mentors: Ben Sayevich, Daniel Veis
Accompanied by: Daniel Veis, cello, and Lolita Lisovskaya-Sayevich, piano

Mansur Kadirov, cello
Major: Cello - Music Performance
Cello Concerto Fourth Movement
By: Edward Elgar
Mentor: Daniel Veis
Accompanied by: Lolita Lisovskaya-Sayevich, piano

Petr Maslan, cello
Major: Cello – Music Performance
Cello Concerto in B minor, Op.104 - 1. Allegro
By: Antonin Dvorak
Mentor: Daniel Veis
Accompanied by: Lolita Lisovskaya-Sayevich, piano

Erin Hales, piano
Major: Piano Performance
Symphonic Prologue in Memory of Gogol, Op. 87
By: Aleksandr Glazunov
Mentor: Stanislav Ioudenitch
Accompanied by: Yuriy Vereshchagin, piano

Erin Hales, piano
Major: Piano Performance
Trio No. 2 in E Minor IV: Allegretto
By: Dmitri Shostakovich
Mentors: Stanislav Ioudenitch, Ben Sayevich
Accompanied by: Christian Fatu, violin

Patrick Elisha, piano
Major: Piano Performance
Paganini Etude No. 1
By: Franz Liszt
& Nocturne No. 1
By: Gabriel Faure
Mentor: Stanislav Ioudenitch

Artem Kuznetsov, piano
Major: Piano Performance
Nocturne op.62 #1 H Major
By: Frederick Chopin
& Ballade No. 1 G Minor
By: Frederick Chopin
Mentor: Stanislav Ioudenitch

Yuntian Liu
Major: Piano Performance
Sonnet Petrarch (123)
By: Franz Liszt
& Night Piece
By: B. Britten
& Etude “Rag Infernal”
By: W. Bolcom
Mentor: Stanislav Ioudenitch
THURSDAY, APRIL 12
Drama (2 – 5 p.m.)
Jenkin and Barbara David Theater, Alumni Hall

Jason Dye
Patrick Kastor
Karen Eckman
Bradely Keating
Sabita Thapa
Sam Peak
“Fighting the War Within”
Mentor: Andrea Southard, Ph.D.
Synopsis: A soldier returning from war in Iraq, his struggles with post-traumatic stress disorder and its effects on his friends and family. “Fighting the War Within,” by Jason Dye, a Park University student, was produced by special arrangements with the author.

Amanda Tyler
Arthur McConnell
Jennifer Allton
Tyler McCall
“Playwriting 101: The Rooftop Lesson”
Mentor: Andrea Southard, Ph.D.
Synopsis: A comedy with three characters: a suicidal jumper on top of a building, the good Samaritan who tries to stop him and a drama teacher who is using the first two men in a presentation on good and bad playwriting. “Playwriting 101: The Rooftop Lesson,” by Rich Orloff, is produced by special arrangements with Playscripts Inc.

Arthur McConnell
Amanda Riley
Tyler McCall
Austin Breed
“The Philadelphia”
Mentor: Andrea Southard, Ph.D.
Synopsis: A student-directed production performed by Park University students and members of the surrounding community. “The Philadelphia,” by David Ives, is produced by special arrangements with Dramatists Play Service.

Patrick Kastor
Mindy Reynolds
Randall C. Knight
Mary Kastor
“DMV One”
Mentor: Andrea Southard, Ph.D.
Synopsis: A play about love and relationships that takes place at the DMV, mostly centered on a conversation between a man and a woman. “DMV One,” by Nick Zagone, is produced by special arrangements with the author.

Karen Eckman
Jennifer Allton
Randall C. Knight
Amanda Riley
Ash’lee Combs
“The Wallet”
Mentor: Andrea Southard, Ph.D.
Synopsis: About two women who have more in common than what they first thought. “The Wallet,” by Cassie Angley, is produced by special arrangements with the author.

Kathleen Quisenberry
Kyla Tatum
Enkhzaya Atarbayar
Jambaldorj Ganbold
Kiersten Gardner
Hayley Knappen
Steven Njuba
Class Developed Research Play
Mentor: Andrea Southard, Ph.D.
Synopsis: A play based upon three randomly chosen elements: year, ethnicity and gender.
A lan O’Brien
Death Before Death
Mentor: Mari Peak
Synopsis: A speech given by Steve Jobs to the Stanford Class before he died.

Annie Hounnoukpe
Relationships Aren’t Easy
Mentor: Mari Peak
Synopsis: Poems on the trials of love and the difficulty of relationships.

D anielle Coulter
I Have a Dream Cutting
Mentor: Mari Peak
Synopsis: A piece from the “I Have a Dream” speech, by Martin Luther King Jr., chosen because I want to follow my dreams and be free. I want to help others like me who have disabilities to be free and follow their dreams too.

Sharon Stark
Stories from the Oppressed and Silent
Mentor: Mari Peak
Synopsis: A look into the lives of the 27 million people around the world who are held in slavery today.

Janay Miller
Still I Rise
Mentor: Mari Peak
Synopsis: A presentation of the poem by Maya Angelou.

Amanda Riley
A Collection of Poetry by Meryn Cadell
Mentor: Mari Peak

Jasmin Menez
I Do
Mentor: Mari Peak
Synopsis: A modern poem by Andrea Gibson in which she describes complex, growing love over decades and the fight to see a loved one at the last moments of life.

Patrick Kastor
Sam Peak
They Fell
Mentors: Mari Peak (Acting), Andrea Southard, Ph.D. (Staging)
Synopsis: A scene from “Almost, Maine,” by John Cariani.
Virtual Presentations

Park University students attending online or at campus centers are represented throughout the Symposium in various collaborative presentations. The Symposium Committee is also pleased to showcase individual presentations from the following Park University students who are completing their degrees online or at campus centers.

To view and comment on these presentations:

- Login to MyPark at: https://my.park.edu/ics/
- Click on the “Offices” tab
- Click on “Student Research and Creative Arts Symposium”

**Anita Sampson**, Social Psychology  
*Effects Deployments Have on Children*  
Mentor: Kris Reichart-Anderson  
Abstract: Rather than being reactive, society must be more proactive and properly prepare children for military deployments of parents to build resilience and offer a strong support system.

**Jennifer Dahlstrom**, Social Psychology  
*Facial Perception of Emotions and Schizophrenia*  
Mentor: Kris Reichart-Anderson  
Abstract: An overview of the recognition of emotion through facial perception.

**Xinyu Huang**, Systems Analysis  
*Service Learning: Webpage for Department of Accounting*  
Mentor: Dr. Wen Hsin  
Abstract: Using a computer science web programming course information, a web homepage was designed for the Accounting Department in the School of Business.

**Long Nguyen**, Software Engineering  
*Service Learning: Webpage for Interior Design Department*  
Mentor: Wen Hsin, Ph.D.  
Abstract: Webpage representation for Interior Design Department, created with concepts learned from CS321, Web Programming.

**Joshua Hall**, Computer Science  
*Cyber Security*  
Mentor: Beverly Bohn  
Abstract: As sensitive data migrates to the Internet, thieves are coming up with increasingly cunning ways to extract this information without our knowledge.

**Andria Enns**, Public Relations  
*Arts Education for AIDS Awareness in the Middle East*  
Mentor: Virginia Brackett, Ph.D.  
Abstract: Photos, artwork and writings from my trip to the Hashemite Kingdom of Jordan working with a public health organization fighting AIDS in the Middle East and North Africa.
We would like to thank the Park University students, faculty and staff who participated to make this event possible.