



Juniata College

PENNSYLVANIA

❖ 1876 ❖

LAS Booklet was Designed in IMA
Research Practicum by Yiyao Zhao

Cover Artwork by Laura Chiarella

juniataLAS.info

2018



LIBERAL ARTS SYMPOSIUM
at Juniata College



Special Sessions

All day, IMA Video Exhibition

Kepple Hall 210

Danielle Ochs, Chelsea Scauro, Fisher Stroud, Sidonie Tretesaux, Elinor Williams, and Yiyao Zhao Showcasing a series of creative films and stop motion projects from Spring 2018 Integrated Media Arts Video Production II course. In progress video production work will include short narrative, motivational, and experimental short films.

Faculty Sponsor: Ryan Gibboney

All day, Student Art and Demonstrations

Lobby and Pheasant Lounge, von

Liebig Center for Science

Showcasing a series of creative projects from 2D, 3D, and Digital Art Studio Arts courses. Works represent a range of class projects, as well as some independent pieces that reflect students' own interests.

Faculty Sponsors: Bethany Benson, Robert Boryk, Monika Malewska, and Gordon Stillman

9:00am

Community-Engaged Learning Projects

Brumbaugh Academic Center C-116

9:00am

Integrated Community Partnerships

Kepple Hall 217

Jacob Markey, Lindsay Scholten, Madison Thompson, Xianghan Wang, and Yiyao Zhao

A series of client-based research design projects from Spring 2018 Integrated Media Arts Practicum will be highlighted in this panel discussion. Student researchers are required to work with a local community client to design and develop practical and functional deliverables that are both user friendly and sustainable for the business or organization. Individual student learning objectives are connected in response to the needs and requests of the community client at the start of the research project. This experiential learning opportunity offers both the student and the client the option to seek and obtain real world knowledge and skills related to various areas of visual communication design.

Faculty Sponsor: Ryan Gibboney

9:00am

they ask, We Told, No one listen

Neff Lecture Hall, von Liebig Center for Science

Micah McConnell

I am doing a video project on diversity and inclusion and I interviewed 11 minorities and I ask them six questions that meant my standards on why I think it was important to be on my video. I wanted to do this because like my title says they ask, we told, and no one listened because its the truth behind my eyes. Hopefully this video that I am making helps people understand what is happening on this campus.

Faculty Sponsor: Cynthia Merriwether DeVries

10:00am

Integrated Media Arts Exhibition

Kepple Hall 114

Paul Alicea, Cassandra Dunn, Jenna Miller, Samantha Norden, Danielle Ochs, Shiyue Shao, and Fisher Stroud

Showcasing a series of creative research design projects from Fall 2017 and Spring 2018 Integrated Media Arts courses. Students work on a series of client based projects in addition to individual passion projects that reflect the students' own interests. Includes community-engaged design work for the Huntingdon Community Center, client research for Standing Stone Laundry, video game concept art, typography design, awareness campaigns, short comic zine, packaging design, and experimental 360° videos.

Faculty Sponsor: Ryan Gibboney

10:00am

Hispanic Play Premiere

Neff Lecture Hall, von Liebig Center for Science

Suraia Silveira, Olivia Charles-Pike, Eva Ibarra, Cade Emler, Brent Baker, Jared Evans, Will Thurston-Griswold, Catherine Jarvis, Zoe Fishter, Madison Nareski, Daichi McAuliffe-Uchida, Kendra Walker, Kenia Pochette, Andrew Hay, Nasiha Khan, and Alexis Jones

This semester's Introduction to Hispanic Literature class will screen a production of a one-act play in Spanish, with English subtitles, that class members have performed, recorded and edited. Following the screening, there will be a short presentation and discussion on the process of completing the production as well as critical assessment of the play and the

quality of the final product.

Faculty Sponsor: Henry Thurston-Griswold

10:00am

Airborne Part 2: An Original Full-Length Play

Movement Studio, Halbritter Center

A continued reading of the original murder mystery play Airborne, written by Tzipora Crandell. Last year at the Liberal Arts Symposium, there was a reading of the first half of the play, and now there will be a continuation of where we left off, to finish the story and find the killer. A short review of relevant information and a talk-back after the reading will take place. This reading is in collaboration with the Juniata Student Theatre Ensemble.

11:00am

2018 Liberal Arts Symposium Keynote Address

Brumbaugh Academic Center, Alumni Hall

Making Connections, Expanding Opportunities: Undergraduate Research in Humanities, Arts, and Technology

Dr. Meredith Goldsmith, Ursinus College

In this talk, I explore the centrality of undergraduate research to my work as faculty member, mentor, and advisor. Discussing the range of opportunities for research students in the humanities and arts, I highlight projects I have supervised in traditional, archival, and digital research settings. Drawing on the observations of the Council for Undergraduate Research, we'll consider how research projects—including digital ones—can be embedded into a wide variety of courses, and emphasize the relationship of undergraduate research to student success more broadly.

1:00pm

Find The Pennies: Creating a Feature Length Documentary

Good Hall 402

Matthew Gaynor, Hayden Snook, Jake Wolfe, Sean Miller, Vinnie Caroselli, and Pete Richardson

On August 31, 1909, the last great train robbery occurred in the Lewistown Narrows. The culprit, who has remained anonymous to this day, supposedly hurried a bag of Lincoln Pennies along the mountain. Our team dives into the story and along the way make a discovery which may change the town's history forever.

Faculty Sponsors: Donna Weimer and Ryan Gibboney

1:00pm

From Screenplay to Screen:

Student-Produced Short Documentary and Narrative Films

Neff Lecture Hall, von Liebig Center

for Science

Students screen their short films about a variety of topics of interest to them both as students and creators.

Paul Alicea *Exit* A film about losing yourself.

Katie Brown *Fingers Crossed* A girl is nervous for a first date.

Jacob Novak *Late* Two friends find themselves running late for rehearsal.

Hephzibah Nwanosike *Called to Serve Others* A generous Christian couple show their commitment to helping diverse people through their interactions in prison ministry, the friendship-family program for Juniata College, and their community.

Jill Palmer *It's Not a Hobby* A

portrait of local actress Lydia Boonie's life as both a performer and a member of the working class.

Fisher Stroud *Cigarette* Daydreams

An angst girl is nervous for a party her crush is attending.

Faculty Sponsor: Hannah Bellwoar

1:00pm

Ethically and Effectively Creating Community Partners

Brumbaugh Academic Center, Alumni Hall

Maev Gannon, Elizabeth Hainsworth, Daniel Komar, Shannon Kriz, Whitney Miller, Hannah Oney, Savannah Parson, and Maggie Pozenel

For the purpose of exemplifying the service learning principle of "working with," rather than "working for" community partners, the Sociology Senior Seminar cohort has spent the semester in collaboration with the local chapter of the Pennsylvania Prison Society. In collaborating with this community partner, the group worked toward completing a project that would have a lasting positive and sustainable impact on the relationships between PA Prison Society members and the Huntingdon and Smithfield SCI staff. The hope being that understanding and communication will improve the experiences and work of these two groups. Students regularly communicated with and sought feedback from members of the PA Prison Society in order to truly listen to their needs and the needs of those whom PA Prison Society seeks to serve. A project emerged from

these meetings which called for students to lead initiatives to both better understand and to improve relationships between prison staff and the PA Prison Society. In a very short amount of time, the cohort worked to avoid engaging in "toxic charity," and to truly assess and meet the needs of the Prison Society community partner in a way that best supports the goals of the organization.

Faculty Sponsor: Daniel Welliver

1:30pm

Multicultural Storyfest

Rosenberger Auditorium,

Halbritter Center for the

Performing Arts

Amy Chen, Anh Pham, Anna

Oldenbrook, Apasra (Pink)

Chatchakul, Catherine Adcock,

Laurel Hwu, Marcus Rusinol, Mei

Su, Nao Ogusu, Nasiha Khan,

Nazia Jahangir, Patrick Kuehn,

Ploy Wongtaladkwon, Po-yen

Chen, Qian Yang, Roberto Toro,

Sanida (Mint) Supawaropas,

Shaoting Feng, Shubhi Sharma,

Syed Hasan Sherazi, Tanvi Pande,

Tra Bui, Trista Rappert-McGetrick,

Tsubasa Ishikawa, Twisha Sheth,

Unika Dhakhwa, Wan-Ling

(Winnie) Yang, Wendy Chen,

Xianghan Wang, Xun Xu, Yu

Qin, Yun Wang, Zixuan Tan,

Ziyuan Hong

The Multicultural Storyfest welcomes international students to share stories from their homelands through cultural dance, narration, and song, while encouraging audience participation. This is a great event for all age groups.

Organizers: Jillian Murphy and Kati Csoman

2:00pm

Eagle Fund Update

Brumbaugh Academic Center,

Alumni Hall

Matthew Alexander, Connor Close, Scott Fennell, and Caleb Pepperday

At Juniata College, students are fortunate enough to gain real world investment experience through the Eagle Fund. The Eagle Fund was started with a generous donation of \$100,000 from the late Klare Sunderland. Our Portfolio Management class continually learns about investment strategies and implements them into the Eagle Fund. The strategies that we study and implement are buy and hold asset classes (45%), Momentum (30%) and buy and hold value stocks (25%). In our presentation, we will be updating Juniata College on the

performance of the Eagle Fund this past year, including acquisitions and sales. The Portfolio Management team will also discuss possible investment opportunities and those we chose not to pursue.

Faculty Sponsor: Bradley Andrew

4:00pm

Music Department Honors Recital

Stone Church of the Brethren

Kristen Behrens: Flute

Phoebe Harnish: Flute

Devin Clark: Voice

Phoebe Harnish: Voice

Shirho Choi: Voice

Tzipora Crandell: Voice

Faculty Sponsors: James Latten and

Russ Shelley

5:00pm

Senior Capstone Exhibition Opening

Juniata College Museum of Art

Liam Odle, Jane Shapiro, and

Olivia Stentz

Senior students in the visual arts present their work in the formal setting of the museum. Join us to celebrate the accomplishments of these emerging artists!

5:00pm

Student Startup Showcase

Brumbaugh Academic Center,

Alumni Hall

Kyle Bargo, Dallas Huff, Elke

Arnesen, Joey DiGangi, and

Madeline Joyce

Join us to see how students are turning their business startup ideas into reality. Our showcase will feature several students presenting their startup process and answering questions about their creation of a business through solving a problem.

Students will present a 5 minute presentation on their startup and take questions from the audience. Audience members will be able to pick which presentation they liked the best through a "txt" vote using their smart phone or other device.

Faculty Sponsor: Terry Anderson

7:30pm

Theatre Department Senior Capstones

Suzanne von Liebig Theatre

Lewis Boob, Tzipora Crandell,

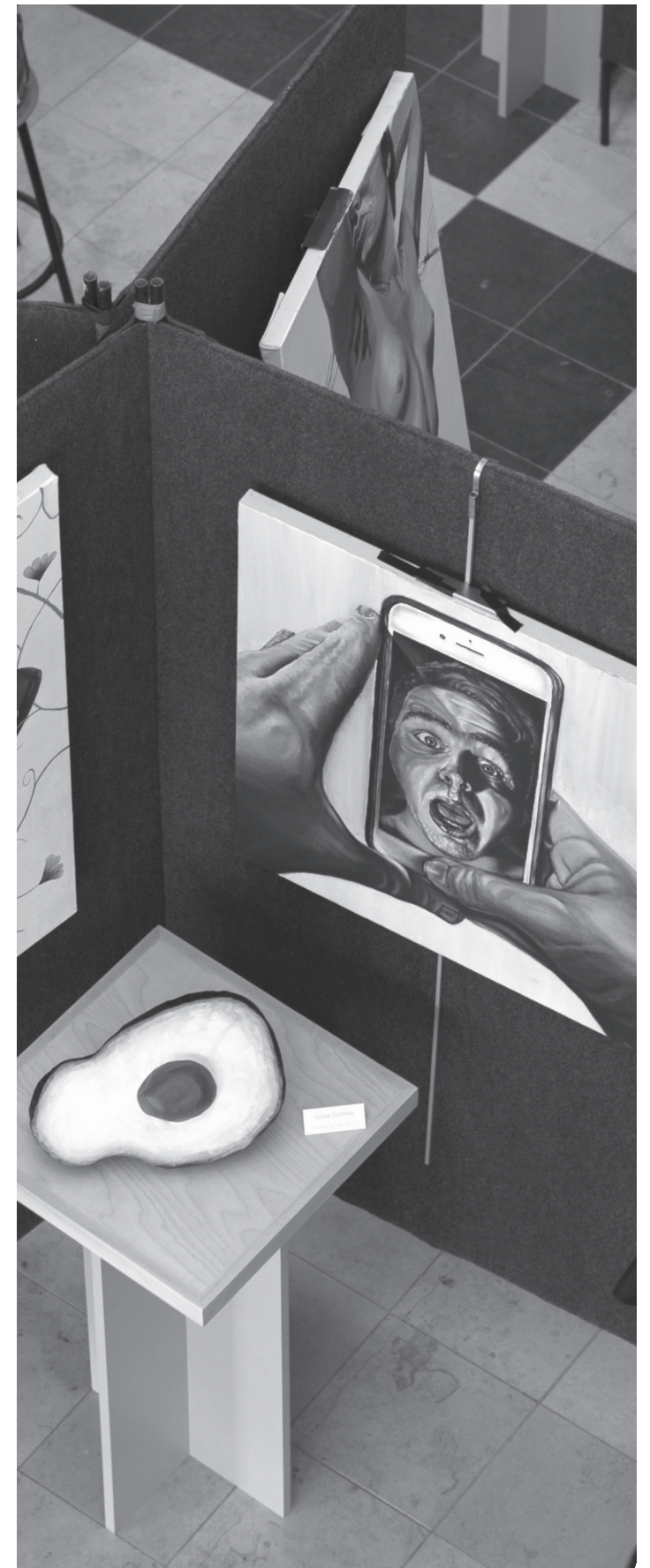
Christine Reilly, and Kaitlin Wyatt

Join the Theatre Arts POE

seniors for their culminating

signature work.

Faculty Sponsor: Neal Utterback



Photographer: Morgan Horell '17

Presentations

9:00–9:45 am

Brumbaugh Academic Center, Alumni Hall

9:00 am Katie Dickins “You’re drunk and disgusting:” Misperceptions of binge drinker’s social identity and impression management

9:15 am Jana Wegener A content analysis of naturally occurring talk and its impact on leadership styles

9:30 am Evan Brock College student’s stories on marijuana use: Understanding a culture through narrative

Brumbaugh Academic Center, C-109

9:00 am Dominic DeFelice Tieschitz 4141-2, an H/L3.6 ordinary chondrite: modal analysis using pixel counting and point counting

9:15 am Anna VanDusen Thermal Evolution of Ultramafic Bodies in the Eastern Blue Ridge Mountains, NC

9:30 am Kaylee Pennell Petrologic Analysis and Remapping of the Todd Ultramafic Body in Eastern Blue Ridge Mountains, NC

Brumbaugh Academic Center, C-210

9:00 am Christina Altland Fort Dewart: A Historical and Archaeological Analysis of an Underrepresented Fort

9:15 am Mason Sherry A Historiographical Examination of the Nanjing Massacre: Victimization, Silence, and Denial.

9:30 am Catherine Adcock The Fairy Tale Behind Door Number 2: A Look at the Role of Women in Two Forbidden Chamber Motifs From Germany and Japan

Brumbaugh Academic Center, C-212

9:00 am Blair Altland Hey Siri, I’m home! Developing a Mood Data-based Smart Home

9:15 am Bruno Rosa, Kyle Bargo Developing a Cross-Platform Mobile Application

Brumbaugh Academic Center, C-225

9:00 am Lindsey Gearhart Effects of Mindfulness Meditation on Inhibition

9:15 am Daniel Komar Psychopathy and Response to Emotional Faces

9:30 am Gabrielle Buchan Task Switching Training

Brumbaugh Academic Center, C-232

9:00 am Benjamin Martin Agricultural Impacts on Smallmouth Bass (*Micropterus dolomieu*) in the Juniata River Basin

9:15 am Catherine Neville, Marissa Cubbage, Chiara Jeanfils Does Stocking Streams with Trout Affect Crayfish Feeding Preference?

9:30 am Kelsey Pfau Changes in crayfish (*Cambarus bartonii*) muscular mercury levels, hepatopancreas and gill morphology in response to unconventional natural gas development (UNGD) in northwestern and northeastern streams of Pennsylvania

10:00–10:45 am

Brumbaugh Academic Center, Alumni Hall

10:00 am Nils Bolder The Change in Fantasy Themes Surrounding Mental Health Issues in Rap Music (2002- 2017)

10:15 am Kayla Borden Choke: A Reflection on a Lifelong Battle with Eating Disorders

10:30 am Samekh Saire Illo Alone

Brumbaugh Academic Center, C-109

10:00 am Zeph Turner Estimating the Sources of Metagenomic Data using Bayesian Statistical Methods

10:15 am Andrew Guide Predicting Stream Locations using Random Forest Models

10:30 am Rebecca Drucker Constructing Configurations of the Dr. Eureka Puzzle

Brumbaugh Academic Center, C-116

10:00 am Sierra Stern Assessment of Study Abroad Learning Outcomes

10:15 am James R Innes Australia’s national security policy response to the rise of China

10:30 am Donovan Cobb Diversity at Juanita

Brumbaugh Academic Center, C-210

10:00 am Kahley Stewart “She’s Making History Working for Victory”: The Women Who Were Rosie the Riveter and the Foundation They Laid for 20th Century Feminism

10:15 am Daisie Rodriguez The Alienation of Mexican Immigrants: Immigration Policy, a Strategy of Social Control

10:30 am Emily Tone You Can’t Have Your Cake (Or Can You?): The Creation of the Medicare Program: 1957-1965

Brumbaugh Academic Center, C-212

10:00 am Matyas Kohout Is the USA a Tax Haven?

10:15 am Bridget Rea The Biases of Hirers and How Their Decisions Affect Organizations

Brumbaugh Academic Center, C-225

10:00 am Lauren Miller Authoritarianism and Media Framing: An Investigation Into Protesting in the NFL

10:15 am Shannon Kriz Authoritarianism, Threat, and Their Role in Support for Anti-Democratic Policies

Brumbaugh Academic Center, C-232

10:00 am Hephzibah Nwanosike, Jeremy Chen See Microbial Biomarkers of Marcellus Shale Activity in Pennsylvania

10:15 am Truc Ly Functional Capability and Structure of Microbial Communities Associated with Middle Branch Passive AMD Remediation System

1:00–1:45 pm

Brumbaugh Academic Center, C-109

1:00 pm Roberto Toro The Übermensch in Dostoevskian Literature

1:15 pm Zachary Hesse A Consequentialist Continuum of Environmental Ethics

1:30 pm Garrett Fry The Demerits of Free Speech: The Societal Costs of Hate Speech

Brumbaugh Academic Center, C-116

1:00 pm Jared Miller Why The Pirate Bay Remains At Sea While Napster 1.0 Now Rests In Davy Jones’s Locker

1:15 pm Joshua Keszczyk Do Economic Sanctions Work?

1:30 pm Samantha Cline Mono-fail: Where the Las Vegas Monorail went wrong

Brumbaugh Academic Center, C-210

1:00 pm Sarah Ullom-Minnich Mapping Perspectives of Cultural Work and Conflict in the Context of Ecuador: A Bilingual Qualitative Investigation

1:15 pm Margaret Lizzi Ending Femicide in Mexico: The Law vs. Machismo

1:30 pm Drew Goodwin Spain vs. Catalan Secessionism

Brumbaugh Academic Center, C-212

1:00 pm Andrew Meci The Sentiworld study: Creating a platform for epidemiological sentinel surveillance networks to communicate

1:15 pm Ali Weyant To Die or Not to Die

1:30 pm Kylie Orndorf Assault on Climate Change: Why the Trump Administration Should Not Withdraw from the Paris Climate Agreement

Brumbaugh Academic Center, C-225

1:00 pm Anna Carlson, Hannah Blackburn Characterizing Site Fidelity in Brown Trout (*Salmo trutta*) in the Little Juniata River

1:15 pm Logan Stenger, Katie Mattas, Grace Noll Conditions and diet of young-of-the-year smallmouth bass of a river system impacted by endocrine disturbing compounds

1:30 pm Lily Cedarleaf-Pavy Crayfish Population Distributions Throughout Central Pennsylvanian Water Systems

Brumbaugh Academic Center, C-232

1:00 pm Lauren Lock Effects of Fungal Treatment on the Microbial Community Structure of Roots and Soil Associated with Allelopathic Tree of Heaven

1:15 pm Hoi Tong Wong Using Bacterial Transcriptomics to Investigate Targets of Host-Bacterial Interactions in *C. elegans*

1:30 pm Jeffrey Brabec Arsenic Perturbation of the Gut Microbiome in a Disadvantaged Population in Nepal

2:00–3:00 pm

Brumbaugh Academic Center, C-109

2:00 pm Isaac Robbins Creating Educational Aids Using Engineering Processes

2:15 pm Jordan Couttten Exploring the limitations of a 3D Printed Acoustic Violin

2:30 pm Joseph Schnaubelt Light Absorption and Reflection as a measure of Plant Health

2:45 pm Ichiro Narita, Nasir Ellison Using Seismic Analysis to find Optimal Structural Designs against Earthquakes

Brumbaugh Academic Center, C-116

2:00 pm Eric Chun The Diverging Stances on Reunification in South Korea

2:15 pm Tyler Watkins The Perception of Conservative Students on the Juniata College Campus

2:30 pm Jack Walker To what extent do televised electoral debates impact voter preference?

2:45 pm Jack Mailey The tale of Two Chinas

Brumbaugh Academic Center, C-210

2:00 pm Emily Parker No Young People in the Pews: A Study of Unitarian Universalist Emerging Adults

2:15 pm Matthew Colabella Feminist Critiques of Post-Shoah Theology

2:30 pm Beck Branton The Justification for Atheism in a Modern Society

2:45 pm Kirwin Seger Religious Diversity and Higher Education

Brumbaugh Academic Center, C-212

2:00 pm Phoebe Harnish Deconstructing the Patriarchy of Language: French Feminism and Grammatical Gender

2:15 pm Katie Brown Film Screening: “21 Missed Calls from Mom”

2:30 pm Liam Benfer Hip-Hop: A Key to De-coding our Violent Culture

2:45 pm Miranda Suarez On Writing Interactive Fiction: Video Games as Academic Inquiry

Brumbaugh Academic Center, C-225

2:00 pm Francesca Ferguson, Ryan Heisler Variability in endocrine-disrupting compounds in the upper Juniata River system

2:15 pm Amelia Ford, Carys Corry-Roberts, John Randolph The Impact of Parasite Load on the Health of Eastern Gray Squirrel (*Sciurus carolinensis*)

2:30 pm Luke Fultz, Karl Suttman Assessing the Relationship Between Invasive Berries and Birds in Wetlands

Brumbaugh Academic Center, C-232

2:00 pm Jessica Zavadak Differential Gene Expression in an Alzheimer’s Disease Mouse Model

2:15 pm Danielle Murphy The role of sphingolipids in known pathways of lifespan regulation

2:30 pm Stephanie Ringer Finding the Optimal Math Homework Review Method

Good Hall, G-402

2:00 pm Kathleen Ryan Art as a Weapon of Change

2:15 pm Lydia Steuart Freeing the Suffocated Spirit: Rethinking Structures of Indigenous Exhibitions

2:30 pm Jane Shapiro Patronage to Patreon: The Evolution of the Working Artist

2:45 pm Elizabeth Swierczek Uncovering the Unconventional: Examining the Autopathographic Self-Portraits of Frida Kahlo and Hannah Wilke

Neff Lecture Hall,

von Liebig Center for Science

2:00 pm Kevin Schofield N-Substitution of carbazole centered ligands for metal binding applications

2:15 pm Tyler Weigel Preparation of chiral aziridines through a copper-catalyzed asymmetric reduction of 2H-azirines

2:30 pm James McGettigan The Synthesis of Selectively Deuterated tetra(benzyloxy)benzenes for Mass Spectrometry Studies

2:45 pm Kyle Sommers Progress towards the synthesis of pyridyl compounds to be used to mimic bioorganic enzyme





Photographer: Klarissa Juliano '17

Posters

3:00pm

Beeghly Library

Joseph Maskell, Lisa Paul, Jean-Bryce Beirnaert, Ben Tipton Fort Mills EMS

Dominic Lombardo The Use of Surgical Guides in Dental Implant Procedures

Savannah Bailey, Peter Rankin, Youqi Peng, Allison Kronenwetter, Jacob Notestine Force for Health

Callie Daughn-Wood, Calvin Bembry, Chelsea Scafuro Interpersonal Communication in the Digital Age

John Maclay Learning advanced skills in AutoCAD with focus on Gear Systems and Transmission Design

Caleb Taylor Synthesis of Copper Complexes with 3-hydroxyimidazole-1-oxide as Potential Single Molecule Magnets

Michael Fox Synthesis of Polythiophene Nanoparticles for Astrochemistry Research

Angelica Etienne, Justin Chen Effects of Fungal Treatment on the Microbial Community Structure of Roots, Soil, and Rhizosphere Associated with Tree of Heaven in Ohio

Christopher Gill Engineering an Ergonomic Alternative Controller Using AutoCAD and 3-D Printing

Adam Kensinger Synthesis and Characterization of 3-Hydroxyimidazole 1-oxide Complexes with Cu(II) Salts

Giana Picozzi Keypad Vulnerabilities Using Thermal Imaging Technology

Mai Vu Synthesis of new functionalized carbazoles

Bridget Kiely The Effect of Eurasian Milfoil on Water Chemistry in Raystown Lake

Brian Park Vendor Lock-In Poster

Anh Le, Sirah Javier, Madison Hearn, Alec Hutchison A Comparative Study of Accuracy Between Generic and Brand Name Glucometer Test Strips

Nicodemus Usry, Isabella Weber, Angela Wilkins Poppy Seed Consumption and Associated Morphine Levels for Urine and Saliva Samples

Kyle Bargo, Roy Liberman, Andrew Onofrey, Nathaniel Matthews, Nick Irvine HCBI Data Identification and Collection

Kristy Schutt, Kelsey Deetz Does Oxygen Uptake Via Gill Ventilation Affect the Temperature Size Rule in Amphipod and Isopod Crustaceans

Stephen Lane Customer Portal Data Management Tool

Olivia Drake, Skye Smay, William Conrad, Cade Emlet Drug Test Evasion: Can Home Remedies be Used to Render a False Negative for Morphine?

Maria Greenler, Brandon Martinazzi, Raymond Turro Preparation of Chiral Aziridines Through a Copper-Catalyzed Asymmetric Reduction of 2H-Arirines

Roxanne Jeffers Examination of the impact of aquaculture on the aquatic environment by measuring levels of Oxytetracycline in stream water, Brook Trout (*Salvelinus fontinalis*) and Rainbow Trout (*Oncorhynchus mykiss*)

Gayle Gottlieb Detecting the presence of antidepressants sertraline(Zoloft), venlafaxine, fluoxetine(Prozac), and their metabolites from the hindbrain and telencephalon regions of smallmouth bass (*Micropterus dolomieu*) brains from the Juniata River Basin.

Naomi Miller, Anna Richey, Megan Vigne Effects of Shrub Nativity on Aboveground Arthropod Abundance in Huntingdon, Pennsylvania

Logan Stenger, Austin Peck, Aldo Legge, Colton Craig An assessment for potential eastern hellbender (*C. alleganiensis*) habitat in a coldwater river system in south-central Pennsylvania

Joanna Shin, Victoria Taylor, Carrie McGlohon Digital Natives: Perspectives on Social Media in the Classroom

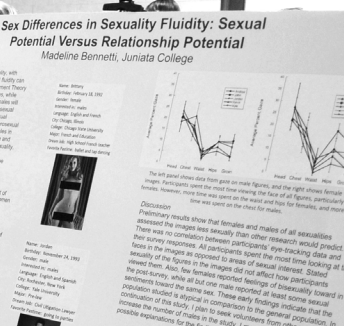
Samantha Bromley, Azia Kalil Developing Fluorescence Tools to Study Stress Response and Sphingolipid Function

Amily Buenrostro, Vy Mai Morphological and Life-History Consequences of Land Invasion by Amphipod and Isopod Crustaceans.

Gavin Grimaldi, Hannah Farley Interactive Effects of Temperature and Fish Predation on the Body-Mass Scaling of Metabolic Rate in Aquatic Crustaceans

Isabella Amaniera, Maria Fowler Integrated bacterial and fungal profiling reveals fungi may play an important role in promoting *C. difficile* infections

Sarah Hammen An Analysis of How Seed Production Varies with Plant Size



3:45pm

Beeghly Library

Lucas Simpson Aluminum Casting in the School or Home Shop.

Meredith Shephard Role of host genes in the retrotransposition of the Gag protein in baker's yeast

Rachel Mignona Origin of Ribbon Rock Through Analysis of Carbonate Sediments

Mason Biehn On condensation reactions between a polydentate amine with a dialdehyde derived from pyridine N-oxide

Cassandra Dunn, Chi Dang, Nathaniel Matthews, Brian Park Internet of Things and Smart Homes

Naomi Frey, Isabella Amaniera, Rina Kirsch, Soumya Polavarapu How sweet is your price, Honey? Analyzing the Concentration of Glucose in Various Priced Honey.

Hoi Tong Wong, Cade Emlet, Joshua Brycki Bacterial metabolism in hosts with varying genetic backgrounds: a study with the model organism *C. elegans*

Glen Brumm Tracing copper migration in the Tongling area through copper isotope values in soils and waters

Julie Tomasino Creation of silicate nanoparticles for astrochemistry

Joycelyn Radeny, Danielle Murphy The role of sphingolipids in known pathways of lifespan regulation

Peter D'Amico Iron Isotopes Used to Fingerprint Artifacts from Central Pennsylvania

Curtis Wentz, Dain Shirmer Neuronal function is impacted by sphingolipid metabolism in *Caenorhabditis elegans*

Youn Kyung Kim Utilizing the eDNA Method to Detect the Presence of *Salvelinus fontinalis* (brook trout) and *Salmo Trutta* (brown trout) in Pennsylvania Streams

Samantha Acri Optimization of a de Novo Genome Assembly Pipeline for *S. aleutianus* (Rougheye Rockfish)

Veronika Farkasova 8-Hydroxyquinolines - are they potential anticancer drugs?

Jeremy Chen See An Investigation of a Potential Interordinal Hybridization Event between Bluegills and Goldfish

Marylauren Davignon, Gavin Grimaldi, Brandon Adams Glucose Levels in Energy Drinks and the Body's Ability to Absorb Glucose

Jared Feldman Method of Extraction of Urushiol and Reactivity of Urushiol with Metallic Salts

Shannan Davidow, Calvin Liu Juniata College BioBlitz 2017

Sarah Isenberg, Jacob Holsopple, Adam Kensinger, Maria Fowler Prevention of False Positives of Morphine ELISA Tests After Consumption of Poppy Seeds

David Rosner, Tanika Murphy, Savannah Mellish, Beck Branton Detection of a False Positive from Diphenhydramine HCl (Benadryl) in Urine using an Opiate ELISA Assay

Eli Greenblatt, Andrew Yeich Total Synthesis of Pulvinic Acid and Characterization of its Transistion Metal Ion Complexes

Anh Le Effects of hydraulic fracturing on gene expression of Brook Trout, *Salvelinus fontinalis*, in Western Pennsylvania streams.

Kyle Bargo, Katheryn Weeden, Chisa Taguchi Traditional IT vs. The Cloud: Exploring Amazon Web Services

Lindsay Scholten The "Multiplicities" Concept in Pride and Prejudice

Caroline Braas, Seth Brewer, Ahmed Tovar, Mahlon Bender Huntingdon County Visitors Bureau

Lavinia Unverdorben Distribution of *Salmincola edwardsii* and *Salmincola californiensis* (Gill Lice) and Implications for Wild Brook and Rainbow Trout Populations in the United States

Allison Koehle Hemlock Woolly Adelgid and headwater stream biodiversity: no evidence for significant short-term impacts of hemlock decline in Central Pennsylvania

Nathan Desousa Synthesis of a Tetradentate Schiff Base N-Oxide Ligand

Serena Joseph Synthesis of Macrocylic Pacman Ligand

Austin Montgomery Utilization of N-oxide functionality to form new complexes

Emily Dowler, Amanda Dove, Sarah Napoleon, Carolyn Morningstar Manganese Catalase: The Sequence-Structure Relationship Within Bacterial Families

Martin Berger, Harry Biddle Designing and Building a Lightboard using 80/20 Aluminum

Andrea Luekoeova Synthesis, characterization and coordination of quinolin-8-ol N-oxide and its derivatives

Maiya Mastovich, Lauren Miller, Shannon Kriz, Olivia Kruse Authoritarianism and Threat: An Experimental Manipulation

Chelsea Keller Processing of Ty1 Gag proteins in yeast: a screen for regulatory host genes

Elizabeth Swierczek, Jared Evans Cultural Event Attendance and Engagement: A Longitudinal Examination of Openness to Experience

Kathryn Burket, Devyn Carper, Madison Thompson, Anh Nguyen Community Engagement Section of the Juniata College Website

Stephanie Letourneau, Kelsey Deetz, Elizabeth Metzger, Amy Kochel, Zachary Lee, Caitlyn Coffin, Brooke Ridenour Brown Trout Movement in the Little Juniata River Under Varying Habitat Qualities

Kathryn Goerl Synthesis of 2-Pyridinecarbaldehyde N-Oxide

Joanna Bhasker, Macie Hollenbach, Peyton LaTourrette, Hannah Farley Comparison of Methods for Measuring Glucose Concentration Using Enzyme-Linked Kinetics: Glucometer vs. Spectrometer

Isaac Robbins, Kang Yang, Tanvi Pande Behavior of a Ferrofluid Droplet in a Capillary Tube