

Liberal Arts SYMPOSIUM

Celebrating 10 Years



Thursday, April 23

“Mountain Day of the Mind”



***A daylong celebration
of student research,
project development,
and performances.***

JUNIATA
COLLEGE 

Liberal Arts SYMPOSIUM

Celebrating 10 Years



www.JuniataLAS.com



#JuniataLAS

Daylong fun...

- **All day, Student Art and Demonstrations**
Lobby and Pheasant Lounge, von Liebig Center
- **Performances by Juniata College**
Honors Chamber Instrumental Groups
Founders Amphitheatre
Rain Location: Pheasant Lounge, von Liebig Center
- **LAS "confessional"**
Coat Room, von Liebig Center
Stop by the LAS "confessional" and leave your video message about what you love most about Juniata's Liberal Arts Symposium.
- **Labyrinth**
Under the large oak tree outside of the Beegley Library
A labyrinth is a single path that leads to a center. It is an ancient tool for reflection, meditation, prayer, and comfort in which a person walks from the entrance to the center and then returns once again to the beginning. It provides an opportunity for personal, spiritual, or psychological centering and transformation. Our labyrinth is a gift from the class of 2009 consisting of two benches and a 24-foot replica of the labyrinth in the Chartres Cathedral in France.
- **11 a.m. – noon**
March on Selma
C225, Brumbaugh Academic Center
Taylor Whetsel, Amy Ankney, David Spade, Zachary Trayer, Joshua Gongloff, Micah Dowdy, Rounida Shwaish—Mirroring Juniata's motto of "Think, Evolve, Act," seniors of the Sociology Senior Seminar strove to discover their role as change agents in the global community by commemorating the 50th anniversary of the Civil Rights march from Selma to Montgomery, Alabama. The students embarked on an introspective evaluation of their transformation into social change agents and what that entails on both Juniata College's campus and in the larger society..
- **11:30 a.m. – 1:30 p.m.**
Picnic Lunch
Halbritter Lawn, Campus Quad
For Sodexo meal-plan students and pre-registered faculty and staff. For others, you may purchase lunch at The Eagle's Landing in Ellis Hall or at Jitters in von Liebig Center.
Rain location: Baker Refectory, Ellis Hall
- **noon – 1 p.m.**
Music Performances
Detwiler Plaza
Music department performances by the Juniata College Jazz Ensemble.
Noon-time, Spring semester instrumental concerts pre-date the LAS. Come and enjoy this Juniata musical tradition.
Rain Location: Rosenberger Auditorium, Halbritter Center
- **1 – 2 p.m.**
Introduction to the Labyrinth
Under the large oak tree outside of the Beegley Library
Learn about and explore the labyrinth. The Campus Ministry staff will share a little of the history of the labyrinth and provide examples of how people might use this tool for reflection, meditation, prayer, and comfort.
- **1 – 2 p.m.**
Essayists Exposed: A Refreshingly Honest Nonfiction Reading
Neff Lecture Hall, von Liebig Center
Wendy Briggs, Alexandria Groves, Lauren Liacouras, Erika Young—It takes true courage to write, but it takes even more courage to read your writing aloud. These four young women have reached into their personal archives to produce original nonfiction works. As they read their essays, you may laugh, cry, or get a slight wave of indigestion, but you'll enjoy every minute.
- **2 – 3:30 p.m.**
Multicultural Storyfest
Detwiler Plaza
Gabriela Atayde, Madison Berrier, Nicholas Bonavita, Kaila Prabhjot, Jacob Dube, Colton Hallabuk, Kiara Keaton, Kirstin McKenzie, Sierra Mellish, Masataka Mizuno, Yasmine Naama, Brea Neri, Stephanie Njeru, Kirstin Rabinowitz, Kabreena Rankine, Brianna Riggelman, Alexandra Vogatsky, Marissa Woodman, Yu Wu, Kent Zelesky, Siham Zniber, Beatriz Rodriguez Rivera, Qing Zhang, Thida Win, Maliwan Sae-poo, Abigail Brooks, Jose Reppetto, Johanna Cabrera, Maximilian Wehmeier, Ali Navroza, Fatema Juma, Lisseth Torres—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.
Rain location: Ballroom, Ellis Hall
- **2 – 3 p.m.**
Eagle Fund Update
C225, Brumbaugh Academic Center
Ryan Wickes, David Defreest, Michaela Lacek, Chad Barr, Jose Valle Asato—This presentation will discuss the how the Eagle Fund is managed and update Juniata faculty and students on its performance. We will discuss how the Fund is allocated, the strategies being used, and discuss any annual activity in the account. In addition, Ryan Wickes will present "Cyclically Adjusted Price to Earnings Ratios and Subsequent Returns."
- **4 – 5 p.m.**
Rosenberger Honors Recital
Rosenberger Auditorium, Halbritter Center
Adam Lescallete-piano, Patrick Rea-piano, Jamey Brumbaugh-voice, Maddy DeAngelis-flute, Abby Long-violoncello—Top studio students from the Juniata College Voice and Instrument studios will present advanced musical works.
- **6 p.m.**
2nd Annual Business Pitch Competition
Neff Lecture Hall, von Liebig Center
Students have 90 seconds to pitch a business idea to a panel of judges for cash awards. Any of the five finalists will also have an opportunity to work through JCEL to advance his or her idea.
Top 10 Students: Danielle Boothe, Noelle Bradley, Ben Chevron, Chris Fulton, TaraAnn Hickey, Lewis Nash, Lucille Noble, Vinit Patel, Ian Prescott, Rounida Shwaish
- **6:30 p.m.**
Juniata Theater Performance—Citizen Cyborg
Movement Studio, Halbritter Center
Heidi Kleber, Julia Mathis, DeMauray McKiever, Jamison Monella, Alyssa Newberg, Patrick Rutledge, Holly Souchack—A viewing of the Juniata Theatre show "Citizen Cyborg."
- **7:30 p.m.**
Percussion at Juniata Evening Concert
Rosenberger Auditorium, Halbritter Center
Nikhil Bhatnagar, Matt Brumbaugh, Christina Estright, Jonathan Geyer, Elisabeth Hamme, Taylor Hohenstein, Joshua Katz, Kristine Pham, Dane Sapienza, Bethany Slaughter, Melissa Topping, Emily Zimmerman—"Percussion at Juniata" and its world percussion lab, keyboard percussion choir, and "Steely Pan and the PVCs" will present its evening concert. It is \$5 for adults, \$3 for senior citizens and children under 18, and free for Juniata students with college ID.

Presentations: 9 a.m. – 4 p.m.

► 9 a.m.

Neff Lecture Hall, von Liebig Center

Olivia Hockenbroch—All Ways of Loving (AWOL) shaping a student's college experience: The impact of an LGBT advocacy group's influence on identity

Brandon Reis—The capacity of the visual arts to destroy cultural and generational compartmentalization: An alternative to verbal language, which induces "the negative"

Jeannine Haizlip—Narrowing the Divide: Power of Politics or Power to the People?

C116, Brumbaugh Academic Center

David Paul—Environmental influences on the ontogenetic body-mass scaling of gill surface area in the freshwater amphipod *Gammarus minus*

Luke Gangi-Wellman—Role of Cadherins on Synaptic Specificity in the Hippocampus

Dustin Servello—Role of Sphingolipids in Aging, Locomotor Healthspan and Lipid Metabolism

420, Founders Hall

Marjorie Moreno—Vargas Llosa: Literature and Politics

Airokhsh Faiz Qaisary—The impact of international intervention on women's rights in Afghanistan

Alexander Dean—Police Misconduct, Use of Force, and Accountability in the United States

C109, Brumbaugh Academic Center

Katharine Shelledy—Misdirected Scientific Criticism in Rousseau's "First Discourse"

Alexander Debrecht—Factual Fluidity

C225, Brumbaugh Academic Center

Molly Adler—Olympism and Ideology: An analysis of the conflict inherent in global sporting events

Erik Krueger—Wolfram and the East - An Examination of how German Medieval Poet Wolfram von Eschenbach understood the East in "Willehalm"

Miya Williams—Code Switching and Bilingualism

C212, Brumbaugh Academic Center

Nathan Anderson-Stahl—Turning the Lights Out on Lobsters

Arnold Schwemlein—Studying Nonlinear Systems of Equations Using Newton's Method and Microsoft Excel

Kate Lorenzen—Counting Cayley-Sudoku Tables

309, Founders Hall

Amberle Nickas—"Suffer Little Children": The Burial Grounds for Unbaptized Infants in Early Modern Ireland

Elizabeth Faust—How Scream into a Quiet Night go Unheard

Heather Kleber—"Horseshoe Curve Marked": How Operation Pastorius Brought World War II to the Juniata Valley

► 10 a.m.

Neff Lecture Hall, von Liebig Center

Catherine Scholl—A Fantasy Theme Analysis of crisis communication management in social media: how joining the conversation saved the reputations of the Red Cross and FedEx

Taylor Whetsel—Does "IT" Really Matter: A Narrative Approach Exploring the Dynamic Definition of Virginity in the Formation of Women's Sexual Identity

Kelsey Livoti—Social Media and Rural Healthcare: A Data Analysis of its Relevancy and Role in a Small Community

C116, Brumbaugh Academic Center

Catherine Douds—The Yeast Genome Project: Exploring APD1

Vincent Knecht—Finding ORFans a Place to GO:

Characterization of *S. cerevisiae* ORF YLR042C

Nicholas Weit—AMD Microbial Community Structure

420, Founders Hall

Lillian Dudek—Surveillance State: Privacy & the Private Home

James Guancia—Approaches to Helping the Mentally Ill Homeless

Trevor Havemann—Politics and Space Exploration

C109, Brumbaugh Academic Center

Taylor Johnston—Evaluation of Drawdown as a Management Tool for Controlling Invasive Exotic Plants

Nicole Dengler—Water Chemistry in Relation to Microorganism Distribution in Raystown Lake

C225, Brumbaugh Academic Center

Fatema Juma—The Arab Spring & Identity

T Nang Pan—The HIV/AIDS successes and failures in South Africa and Indonesia

Mitsuki Koh—The relationship between conventional and traditional medicine in the Gambia

C212, Brumbaugh Academic Center

Kaitlynn Plummer—Hark! How the Bells: A Study of Inversions in Change Ringing

Connor Hunter-Kysor—Applying Time Series Data Analysis to Biological Data

Amy Ankney—Social Network Analysis of First Year Students

309, Founders Hall

Stephen Park—Cold War Politics and the Olympic Games

Erik Krueger—Pride and Prejudice: An Examination of the Nazi's anti-Semitic Propaganda Campaign

Kymerly Mattern—Nazi Ideology of Women

► 11 a.m.

Neff Lecture Hall, von Liebig Center

Haley Schneider—Political Dialects: A Qualitative Analysis of Perceived Bias in Democratic and Republican Speech

Brea Neri—The "I" of Malala: A Cluster-Agon Analysis of her Advocacy for the Education of Young Girls Worldwide

Heidi Kleber—Call me Ganymede: A Feminist Critique Using Bormann's Fantasy Theme Analysis of Shakespeare's As You Like It

Matthias Guenzel—Keeping a Cool Head: Using Bitzer's Rhetorical Situation to analyze the "Ice Bucket Challenge" as an effective viral phenomenon

C116, Brumbaugh Academic Center

Abigail Rosenberger—

Relationship between fish gut microbial communities and environmental mercury concentrations

David Toole—Identification of a Shell-Degrading Family of

Cyanobacteria Using the High-throughput Sequencing of the 16S rRNA gene

Collin Kessler—CRISPRs: A Bacterial Response to Viral Elements



420, Founders Hall

Derek Schultz—Newspaper Coverage of Presidential Policy in the United States and Great Britain

Morgan Dux—Social Media Use by Members of and

Candidates for the Pennsylvania House of Representatives

Zachary Sanna—Xi's Dream: The Chinese Dream and China's Quest For "National Rejuvenation"



C109, Brumbaugh Academic Center

Michael Weintraub—Contemporary Identity and The Consumption Imperative

Nathan Deitcher—Finding Meaning Both Indoors and Outdoors

Marshall Johnston—The Cycle of Homelessness

C225, Brumbaugh Academic Center

Taylor Whetsel, Amy Ankney, David Spade, Zachary Trayer, Joshua Gongloff, Micah Dowdy, Rounida Shwaish—*March on Selma*, Sociology Senior Seminar Capstone

C212, Brumbaugh Academic Center

MaryElizabeth Petrie—Exploring non-equilibrium behavior using the Ising model

Teresa Turmanian—Magnetic Ground State of Industrial Sensors

Colton Myers—Electrocatalytic Activity of Metal Centered Porphyrin Thin Films

309, Founders Hall

Clinton Webb—Xinjiang and the Campaign to Open Up the West

Elizabeth Faust—The Smithsonian Experience

202, Good Hall

Andrew Kilpatrick—Surrealism and the Graphic Novel: Where Dreams Meet Reality

Shelby Miller—Confronting Fear: Modern Interpretations of the Holocaust Inferno

► 1 p.m.

Neff Lecture Hall, von Liebig Center

Essayists Exposed: A Refreshingly Honest Nonfiction Reading

Erika Young—Changes

Alexandria Groves—Lover of Love

Wendy Briggs—Perfectly Awful Regulatory Teaching

Lauren Liacouras—This is Awkward

C116, Brumbaugh Academic Center

Andrea Waksmunski—RNA-Seq analysis of muscle and bone growth and regulation in juvenile *Seriola lalandi*

Allison Lutz—Net-spinning Caddisfly (Hydropsychidae Diplectrona) Gill Morphology and Stream Characteristics in the Marcellus Shale Basin of Northwestern Pennsylvania

Peter Defnet—Electrochemical analysis of iron nitrilotriacetate complexes

420, Founders Hall

Anthony Salpietro—The Right to Be Forgotten: Expression and Privacy in the US and the EU

Elizabeth Twigg—Capitalist Consumerism and LGBT Attitudes in China

Kyle Salage—"Grexit" Stage Right?: Greece and the Eurozone Predicament

C109, Brumbaugh Academic Center

Amelia Kepler—Synthesis of Purine N-Oxide Complexes

Richard Burgan—Identifying Transcriptional Changes in a Conditional Knockout Mouse

Adam Lescallete—In vivo γ -Secretase-Mediated Cleavage of Slitrk5

C225, Brumbaugh Academic Center

T Nang Pan—How Identity Politics Affect Myanmar

Jung Bin Park—Global Citizenship and Climate Change

Oceane Imber—Americanization of the world: truth or myth?

C212, Brumbaugh Academic Center

Nokota Harpster—How to Communicate Wildness

Heather Wetzel, Emma Kring, Rebecca Kane, Corey Houck, Bridget Canning—Regional Distinctions of Coloration and Morphometrics in Pennsylvanian Coyotes (*Canis latrans*)

Michelle Hoover, Garret Kratina, Nathaniel Selleck, Jessica Rolland—Training and field protocols for surgical implantation of radio telemetry tags into adult brown trout (*Salmo trutta*) in the Little Juniata River.

309, Founders Hall

Victoria Wolf, Colton Hallabuk, Ryan Mull, Anvy Tran—The Writing Center: Producing Professionals

Stephanie Farfan, Maria Nachbor, Hannah Hostak—Inclusivity as Intractable Conflict: Creating Nuanced Dialogue at Juniata

Ezra Halstead—The Art of Trans*lation: Discourse Analysis in the Trans* Community

► 2 p.m.

Neff Lecture Hall, von Liebig Center

Emma Campbell—The Art of Portrait Miniatures

Kate Passannante—The Scientific Analysis of Portrait Miniatures

Elizabeth Faust—The Stories of Women: How They Reflect Their Renaissance Counter-Parts

C116, Brumbaugh Academic Center

Teresa Turmanian—Riding the (Electromagnetic) Wave: Using EM Waves to Measure Material Properties

Alexander Debrecht—Comparison of Conducting Styles Using Accelerometer Data

420, Founders Hall

Derek Schultz—Changing United States foreign policy to ensure lasting peace in the Middle East

Alexis Waksmunski—Going Beyond Blowback: An Analysis of U.S. Foreign Policy and Peace & Conflict Studies

Ethan Wilt—The Right To Self-Defense: A Constitutional Validation for Concealed Carry on Publicly Funded, Post-Secondary

C109, Brumbaugh Academic Center

Christian Gehman—Exploration of Long Chain Dialdehydes for use as Metallodiporphyrin Linkers

Ryan Bogdan—Analysis of porphyrin doped thiophene nanoparticles as potential water oxidizing catalysts

Michael Roth—Characterization of Carbene Intramolecular Reactivity with Various Substituents through Computer Modeling



C225, Brumbaugh Academic Center

Ryan Wickes, David Defreest, Michaela Lacek, Chad Barr, Jose Valle Asato—Eagle Fund Update

C212, Brumbaugh Academic Center

Lucas Corbin, Jonathan Ofiara, Caitlyn Pingatore, Courtney Sledzianowski—Distribution of Rusty Crayfish in South Central Pennsylvania

Mitchell Stanton, Ben Sounders, Will Lupoi—Developmental Methodology of Inter-Watershed Transport of Benthic Macroinvertebrates

309, Founders Hall

Jacklyn Renninger—A Look into Early Education in Ireland

Chinami Katahara—Special Olympics Changed My Perspective

Julia Noack—Connecting with the Community

► **3 p.m.**

202, Good Hall

Sara Arnold—Dada Art: Pivotal Techniques of an Abiding Legacy

Brandon Reis—Matisse and Picasso: How Their Rivalry Fueled Their Astonishing Abstractions

Rika Opio—The Devil, Demons, and Damnation, Oh my!: Demonic Portrayals in Art

C225, Brumbaugh Academic Center

Alexis Hadden—Can You Be Fat and Feminine? A Content Analysis of the Language Used in Continuing the Stigmatization of Fat in our Culture

Leah Jans—Literacy Acquisition in Deaf and Hard of Hearing Students

Kortney Showers—Utilizing Technology in the Literacy Classroom

C212, Brumbaugh Academic Center

Ethan Farrell—Can I Have Your Password?

Arielle Maines, Robert Baronner—Chloride and Nitrate Concentrations in Huntingdon County Waterways

Jacob Rowe, Jung Bin Park, Eric Lambert—Health and Growth Rate of Containerized American Chestnut Plantings in Response to Media and Mycorrhizae Fungi

Posters: 9 a.m. – 4 p.m.

► **9 a.m.**

Sill Boardroom, von Liebig Center

Aaron Kulig—Temperature Dependent Estrogenic Response in *Salvelinus fontinalis* (Brook Trout)

Benjamin Martin—Mercury Accumulation in Stocked Trout

Caitlin Emslie, Demetrius Floyd, Brooke Walls, Michael

John, Nicholas Weit,

Mark Feiler—JC Blair

Reporting System

Frank Brumbaugh—

Who Shot That Bullet?

Erika Young—Message

Analysis Portfolio

Elana Levine,

Shayna Yeates,

Kathryn McElwee,

Alex Albright, Jacqueline Bryers, Claire Moulder, Sophie

Chambers, Jecenia Duran—What Would Authoritarians Do?

Social Norms versus Submission to Authority

Library

Christian Hague, Melissa Topping—Functions of γ -secretase in *Arabidopsis thaliana*

Jera'lyne Hyland—Chemical Contamination and Land Use Patterns Influencing Chesapeake Bay Macroinvertebrate Diversification

Adam Lescalette,

Vincent Knecht—

Student Reflections

from an Upper

Level Problem-

Based Learning

Biochemistry

Course

Paul Kuhn—Telemedicine: Analysis of Benefits and Framework for Implementation

Kyle Moody, Lucas Navin, John Tomchick, Brittany Mlynek,

Doug Smith—Nanotechnology and the Military

David Knecht—SEM CL map and Fluid Inclusion map comparison of growth in Quartz from Fairgrounds Road, Huntingdon, PA

Paige Dennison—Public Safety

► **10 a.m.**

Sill Boardroom, von Liebig Center

Jessica Scales—RTT105 in Ty1 retrotransposition: a possible role in virus-like particle (VLP) assembly

Jonathan Partsch—Identification of Proteins that Co-immunoprecipitate with RTT105 in *Saccharomyces cerevisiae*

Ariel Mouallem—Synthesis and Characterization of Pyridine N-oxide Complexes

Alexander Hansen—Cross Site Request Forgery (XSRF): The Silent Web Attack

Karley Christian, Valerie Hersh, Caitlin Emslie, Sven

Koetterjohann—Robotics: Who's in Control?

Shayna Yeates, Elana Levine, Sophie Chambers, Jecenia

Duran, Chau Tran, Claire Moulder, Kathryn McElwee, Alexis

Albright—What Would Authoritarians Do? Deontological versus Utilitarian Moral Reasoning

Brian Gilbert—Physics Concept Demonstration Aid Development

Library

Christopher McLimans—Comparative Genomics of Hydrocarbon Degrading Microbes Library

Danielle Boothe, Khine Sein, Colin Brislawn—Beeromics: Using genomics tools to evaluate beer quality

Duk Yi, Sam Gary—Optimization of Copper-Catalyzed Asymmetric Reduction of Aryl 2H-Azirines

Ashley Snyder—CAPTCHA

Cody Johnson—Automation of the Michelson Interferometer

Mitchell Stanton—Zooplankton Communities of Raystown Reservoir, PA

Clarence Yeung, Emilia Schneider, Robert Higgins, Madison

Berrier, Timothy Hess—Kdan Mobile



► 11 a.m.

Sill Boardroom, von Liebig Center

Katherine Shoemaker—

Characterization of YML020W and YGL117W in *Saccharomyces cerevisiae*

Marshall Leland—Functional Characterization of ORFan YCL-042W and YIL-169C

Duc Vu—Synthesis and Coordination Study of 3-hydroxyimidazole 1-oxide Copper Complexes

Alexander Hansen, Yasmine Naama, Maximilian Wehmeier,

Tristen Avelis—4I-Megaman Voice Controlled Media Player for Videon, Inc.

Joshua Bussard—Automation of Juniata College Observatory

Kaitlyn Yoder—The Interaction of Forest Plant Communities with Biotic and Abiotic Factors

Adam Caraballo, Brittni Devlin—Female Gaze-Tracking of the Male

Elana Levine—The Buffer of a Screen: The effects on levels of anonymity on judgment

Library

Jada Hackman—Analysis on the Gut Microbial Communities of *Clostridium difficile* Infected Subjects vs. Noninfected Subjects

Nikea Ulrich—A Temporal Assessment of Impacts of Natural Gas Extraction on Microbial Communities in Headwater Stream Ecosystems in Northwestern Pennsylvania

Leila Terrab—Developing a Synthesis of α -Diazoamides

Kyle Moody—Firewall Configuration

Bradley Spayd—Using an Arduino to Improve Data Collecting for Undergraduates

Ashley Snyder, Brianna Watt, Justin Waldorf—Social Media Effects On Identity

Katie Schroeder—Relationship between invasive plants and wetland use by migratory birds in central Pennsylvania

Shannon Manley—Basic Mental Health Education Effects on Public Attitudes of Mental Illness

► 1 p.m.

Sill Boardroom, von Liebig Center

Abby Nolan, Jaylene Brown, Hannah Hrobuchak—Effects of Sphingolipids on Stress Response

Luke Gangi-Wellman, Lexi Schmidt, Dustin Servello—Effect of Intestinal Lipids on Gut Bacterial Composition and Host Stress Response using *C. elegans*

Zane Clarke—Oxovanadium Complexes with Pyrazoles

Brianna Watt—How Secure is Your Mobile Phone?

Gregory Stewart, Jason Boblick, Chris Bomgardner—Surveillance and Security

Nicholas Stone-Weiss—Photonic Bandgap Modeling by Use of Coaxial Cables

Emily Kutz—Bilingual Education in the United States: The Demand, the Need, the Responsibility, the Numbers

Shayna Yeates—The impact of millennial stereotypes on college students' self-perceptions

Library

Laura Berman—Carapace abnormalities in Juniata River Map Turtles (*Graptemys geographica*)

Jeffrey Brabec, Elijah Hall, Larissa Bubbs, Brennen Novak—Effects of bacterial diet on organismal life history traits, Data generated in First Year Biology Lab

Feiyang Xu—Synthesizing Organic Azides through the Palladium-Catalyzed Cross Coupling of Aryl and Vinyl Sulfonates

Christopher Cueto—A Novel Method for the Preparation of Esters Using Neat Borontrifluoride Etherates

Deonte Alston, Rachel Cline, Brittany Mlynek, Kyle Moody, Joshua Gongloff—Bandtasy's I.C.E. (Interactive Concert Experience)

Tyler Mandley—Improving Quality in 3D Prints by Using an Arduino Controlled Heated Print Bed

Victoria Buser, Alexandra Eby, Kiera Foster, Sari Baba—It's more than the reading level: Adapting survey questions for children's comprehension

► 2 p.m.

Sill Boardroom, von Liebig Center

Brandon Hark, Colin Laubauch, Dustin Servello, Jaylene

Brown—Effects of Sphingolipids on Life History Traits in *C. elegans*

Steven Bonn—Molecular Modelling of C99 Mutants in a Lipid Bilayer

Brianna Watt, Jason Boblick, Christian Bomgardner, Lucas

Navin—MBG Innovation for Industry Project

Haining Zhu, Jonah Ruggiero, Elizabeth Wilson—

Visual communication

Sarah Roberts, Desnor Chigumba—Shape and Spin

Modeling of Asteroids through Lightcurve Inversion

Micah Dowdy—Prison Problems of Today

Forest Miller—Social Modeling to Reduce Disgust Toward Eating Insects

Nokota Harpster—Reported Deer Harvests per County

Library

Andrea Waksmundski—Automated de novo Transcriptome Analysis of Eukaryotic Organisms

Katharine Shelledy—Genetic Differences in Brook Trout Populations

Linden Allison, Ye Lim Yi—Synthesis and Purification of Tripodally Coordinated Iron Complexes

Demetrius Floyd—The Hard Drive Disk

Ethan Cree—All Terrain Robotic Sphere

Alexandra Eby, Johnathan Abend, Sari Baba—Can a Zombie fit in a

Shoebbox? Ancestral Priorities and Word Recall

Daniel Phillips,

Ankara Shepard,

Caitlin McCann,

Kayla Causer—

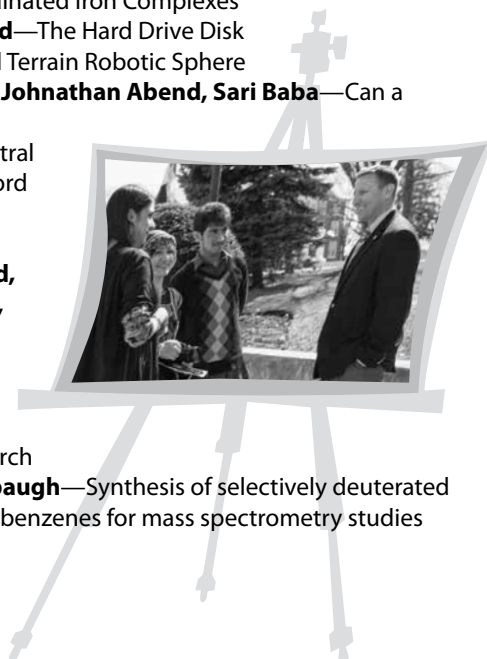
Improving

Auditory

Stimuli for

Cognition Research

Rebecca Brumbaugh—Synthesis of selectively deuterated tetra(benzyloxy)benzenes for mass spectrometry studies





#JuniataLAS

www.JuniataLAS.com



JUNIATA
COLLEGE 

1700 Moore Street, Huntingdon, PA 16652
admissions@juniata.edu
1-877-JUNIATA