

Liberal Arts SYMPOSIUM



Thursday, April 18

**“Mountain Day
for the Mind”**



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

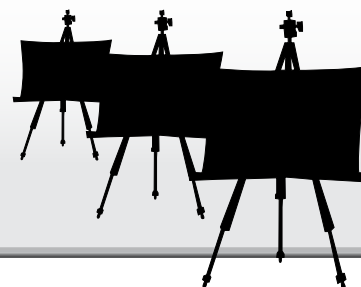
JUNIATA
COLLEGE 

Liberal Arts SYMPOSIUM



Day long fun...

- **All day, Student Art and Demonstrations**
von Liebig Lobby and Pheasant Lounge
- **Performances by the Honors Woodwind Quintet and Honors Brass Quintet**
Founders Amphitheatre
Rain Location: Pheasant Lounge, von Liebig
- **11:30 a.m. – 1:30 p.m.**
Picnic Lunch
Halbritter Lawn, Campus Quad
Free to Sodexo meal-plan students and pre-registered faculty and staff. Others may purchase lunch at The Eagle's Landing in Ellis College Center or at Jitters, in von Liebig.
Rain location: Baker Refectory
- **12:00 – 1:00 p.m.**
Music Performances
Detwiler Plaza
Music department performances by the Juniata College Jazz Ensemble, directed by Professor Dan Yoder. Spring semester noon instrumental concerts pre-date the LAS. Come and enjoy this Juniata musical tradition.
Rain Location: Rosenberger Auditorium
- **1:30 – 2:30 p.m.**
Storytelling
Detwiler Plaza
Juniata students will be highlighting just how meaningful life can be through the sharing of creative, original stories. Discover the morals hidden in each narrative. All ages are welcome! **Emily Rowley, Emil Shelestov, Christin Albert, James Imbrie, Yu Miao, Elena Zakharova, Travis Smith.**
Rain Location: Ballroom, Ellis Hall
- **2:00 – 3:00 p.m.**
Slave Narratives
Founders 406
Juniata students will examine the different experiences of male and female slaves, revealed in slave narratives, discuss the varieties of rhetorical strategies and media used by abolitionists, and discuss 21st Century slavery and the slave narratives of these victims. **Rachel C. Smith, Dane Azeles, Schuyler Beauvais-Nikl, Hannah Breen, Jacqueline Bryers, Patrick Cassidy, Michael Figart, Rudy Fusco, Corey Lacey, Katelynn Maley, Erika McKissick, Lewis Nash, Kayci Nelson, Sarah Rice, David Saintz, Catherine Scholl, Miranda Wales, Justin Wiand.**



- **3:00 – 4:30 p.m.**
Multicultural Storyfest
Detwiler Plaza
International students share stories from their homelands through cultural dance, narration, song, while encouraging audience participation: **Laura Sanchez, Dominic Cuzzolina, Julia Linscott, Haley Chandler-Reed, Andrew Blunk, Victoria Arriola, Zachary Eischeid, Jonathan Geyer, Qing Zhang (Sophy), Carolyn Biery, Lisseth Torres, Michiko Thwe, Semanti Ray, Louise Vandenbussche, Elena Zakharova, Thu Zar Myint, Jewel Daniels, Corby Hess, Michael Melvin.** This is a great event for all age groups.
Rain Location: Ballroom, Ellis Hall
- **4:00 p.m.**
Rosenberger Honors Recital
Rosenberger Auditorium
Selected musicians will present advanced musical works. **Colleen Chiochetti, voice; Adam Lescalette, piano; Emma Ruggery, piano; and the Honors Saxophone Quartet.**
- **4:00 p.m.**
Lecture: "Landscapes, Nocturnes and Pigs"
Neff Lecture Hall, von Liebig
Evan Summer, Professor of Art at Kutztown University
- **5:00 – 6:30 p.m.**
Opening Reception, Evan Summer: Unknown Landscapes
Juniata College Museum of Art
- **7:30 p.m.**
Opening: Noir Noir Noir Noir
Suzanne von Liebig Theatre
Conceived and Directed by Stephanie Skura and including Juniata students:
Kaetlyn Kuchta, Sara Deppenbrook, Ryan Edley, Jessi Haggerty-Desnison, Libby Casey, Gary Shoemaker, Lara Schaffer, Lauren Hitzhusen, Emily Evey, Emily Dale White, Megan Smith, Allison Kiernan-McCauley, Andrew Kilpatrick, Julia Mathis, Holly Souchak, Lauren Dobbs, Jamer Monella, Brianna Kifolo, Alyssa Newberg, Alexandra Hanbury.



Presentations: 9:00 a.m. – 5:00 p.m.

➤ 9:00 a.m.

Neff Lecture Hall

- Megan O'Connor**—Weapons on the Wall: Rebellion and Revolution in Contemporary Street Art
Elizabeth Sunde—Shifting Between Opposites: Fashion's Construction of Androgyny
Elyse Williams—My Eyes Are Up Here: Female Artists and the Male Gaze

Brumbaugh Academic Center C116

- Allison Blumling**—Le Rire de la Méduse: why biological destiny may prevent women from having the last laugh

- Eleri Syverson**—An Examination of Humor, Gender, and Computer-Mediated Communication

- Rachelle Wiegand**—Discursive Formations: A Theoretical Model Of Gender Roles



Founders Hall 420

- Rebecca Carr**—Living on a Farm
John Dubensky—Things I Don't Remember
Alexis Hadden—Dancing in the Badlands
Jessica Mills—The Truth about Goats
Hannah Shultz—Intimately Inseparable
Kenyatta Thompson—The Con

Brumbaugh Academic Center C109

- David Lamberson**—Applications of Raspberry Pi for wireless control over Wifi networks
Brian Eakin—Chemical Synthesis of White Quantum Dots
Samantha Goebel, Adam Duh, & Jeremy Howard—Assessment of Biological Indicators in Raystown Lake

Brumbaugh Academic Center C225

- Rachel Reimer, Ian Darby, & Mingwei Song**—Measuring Discipline-Specific Critical Thinking in Psychology
Sarah Trescher—Negative Attitudes Toward Hispanic Immigrants: Testing a Dual-Process Perspective
Nancy Vooyo—Attendance at Cultural Events: Exploring the relationship to social identity

➤ 10:00 a.m.

Neff Lecture Hall

- Wilbert Beachy**—Tracking sample specific microbial species through competitive DNA hybridization
Mario Cintron—Aging of Eastern Coyotes by Microscopy Analysis of Tooth Cross-Sections
Andrew Maul—You are what you eat - the stories poop tells

Brumbaugh Academic Center C116

- Nicole Dengler**—The Correlation Between Lake Chemistry and Macrophyte Growth
Frank Filkosky—#YesHeDid: A Content Analysis of President Obama's Social Media Strategy on Twitter during the 2012 Election
Ariel Lawver—KONY 2012: Examining Shared Rhetorical Visions

Founders Hall 420

- Moira Mackay**—"Lift up thy voice like a trumpet": Anne Knight and the Fight for Enfranchisement
Elena Popchok—Burying the Dead, as well as a Memory: Media Coverage of the Augusta, Georgia Race Riot, May 1970
Chelsea Veranis—A New Home & New Identity: the Irish Migrant Experience in 19th Century New Zealand

Brumbaugh Academic Center C109

- Jonathan Bogue & Lauren Taylor**—Applications of Transducers in Ultrasonic Imaging
Alexander Debrecht—Analyzing Pulsating Variable Star Light Curves using Chaos Theory
Matthew Flaugh, Christopher Arnold, & Jonathan Bogue—Determining the Rotational Period of an Asteroid Through Differential Photometry

Brumbaugh Academic Center C225

- David Hatem, Chelsea Wilson, & Quadir Christian**—Juniata Students Behind Bars: Service Learning in a Prison Setting
Noah Walstrom—US Military Court vs. US Civil Court

➤ 11:00 a.m.

Neff Lecture Hall

- Clarissa Diniz**—Loss of Epithelial IKK β Alters the Esophageal Microenvironment
Nathan Smith—Studying Ty Elements in the *Saccharomyces sensu stricto* Genus
Ryan Trexler—Potential effects of unconventional natural gas extraction on headwater stream microbial communities of Pennsylvania

Brumbaugh Academic Center C116

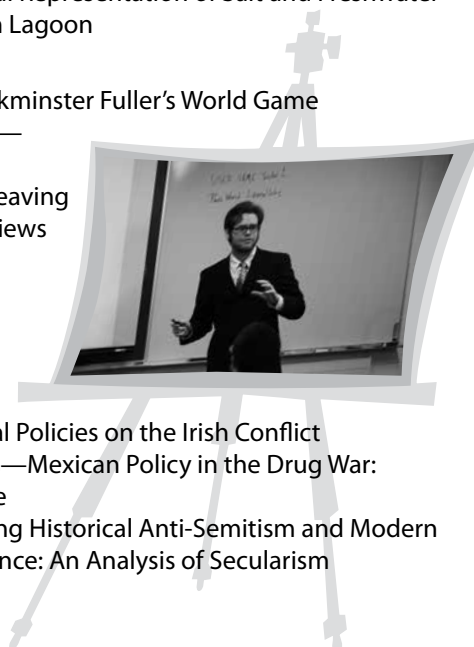
- Rebecca Strohm, Rachel Walman, Matthew Lear, Christian Wilkins, Raymond Starmack, George Schwaderer & Chuck Sedor**—Geospatial analysis of acid mine drainage impacted watersheds in south-central Pennsylvania
Rebecca Strohm, Rachel Walman, Matthew Lear, Raymond Starmack, Chuck Sedor, Christian Wilkins & George Schwaderer—Assessment and Monitoring of Miller Run Watershed
Joel Rhodes—Visual Representation of Salt and Freshwater Interfaces of an Irish Lagoon

Founders Hall 420

- Melissa King**—Buckminster Fuller's World Game
Gabriella Ricciardi—The History Room
Claire Wayman—Leaving their Mark: Artists' Views from the Overland Trail

Brumbaugh Academic Center C109

- Nathan Brock**—The Effect of Political Policies on the Irish Conflict
Samuel Carruthers—Mexican Policy in the Drug War: The Merida Initiative
Elise Panko—Linking Historical Anti-Semitism and Modern Islamophobia in France: An Analysis of Secularism



Brumbaugh Academic Center C225

Clayton Cooper—La metaficción en la cultura popular:

La autonomía versus el guión en *The Labyrinth*

Kerri Fritz—La metaficción en la cultura

Darcy Stock & Emily Rowley—La metaficción en tu mundo: Quiebras entre el lector y el personaje

Kathryn Brown—El poder del personaje en las obras metafictionales *Stranger Than Fiction* y *Niebla*

Alyssa Grube—La metaficción en la cultura popular: Resonancias de *Don Quijote* en La oficina

► 1:00 p.m.

Neff Lecture Hall

Ashley Greenawalt—Fluorescence microscopy for determining retromobility and colocalization of Rtt105 with Gag in Ty1 retromobility in *Saccharomyces cerevisiae*

Jessica Scales—Identifying Host Regulators of Ty1 Transposition in *Saccharomyces cerevisiae*

Alexander Weimer—Heritability of fruit mass in giant Cucurbits using single parent-offspring regression

Brumbaugh Academic Center C116

Joshua Graybeal—Analyzing potential impact of Dissolved Oxygen on Smallmouth Bass Mortality

Joseph Cook—Modeling nutrient and sediment outflow for the Juniata River using MapShed - a GIS based watershed modeling tool.

Cory Mattas, Will Young, Josh Green, Joshua Graybeal, Leah Tester, & Zalina Smith—Raystown Lake Vegetation Forage Study

Founders Hall 420

Timothy Berguson—A Mathematical Model of Fighting Forest Fires in Siberia

Lucas Lingenfelter—An Analysis of Gray Codes Applied to Gene Sequences

Feiyang Xu—Combinatorial and Analytic Studies of Integer Partitions

Brumbaugh Academic Center C109

Carrington Jones—Solutions to Global Climate Change

Andrew McCauley—The Impact of Unfunded Pensions and Collective Bargaining on Local Governments

Hannah Miller—The Effect of Uncivil Negative Campaign Advertisements on Political Alienation

Brumbaugh Academic Center C225

Lauren Kelleher—El Islam en la España de hoy

Rachel Krantz—Danzas del sur de España

Marshall Leland—El arte surrealista de España

► 2:00 p.m.

Neff Lecture Hall

Amanda Epstein—Analysis of positive selection of olfactory related class A (Ora) genes of the flag rockfish (*Sebastes rubrivinctus*) and tiger rockfish (*Sebastes nigrocinctus*)

Erin McClure—Temporal dynamics of the gut microbial community in inflammatory bowel disease

Alexander Sickler—Genome Annotation of Two Pacific Rockfishes Differing in Longevity

Brumbaugh Academic Center C116

Megan Hourigan—Invasibility Response to Planted Diversity in Biofuel Cropping Systems

Patrick Oelschlager—Evaluation of White-tailed Deer (*Odocoileus virginianus*) Population Estimate Techniques Using Automated Cameras

Charles Strasser, Kelly Russo, & Devin Apple—

Assessment of Raystown Lake for Migratory Waterfowl

Founders Hall 420

Sara Johnson—A Mathematical Analysis of Chopsticks

William McGrew—Giant Monopole Resonances in Unstable Nuclei

Austin Moffa—The COBOL Conundrum

Brumbaugh Academic Center C109

Zachariah McCauley—The Use of Military Force Against Countries that Support Terrorism: 2006 Israeli Invasion of Lebanon

Alexis Powell—The History and Reality of the Catalan Independence Movement

Liza Thorson—Food Comes First

Brumbaugh Academic Center C225

Amanda Mercado—Danzas del norte de España

Katherine Tallman—ETA y el terrorismo español

Michela Vawter—España: el punto de entrada a Europa para la inmigración, el tráfico de drogas y el crimen organizado

► 3:00 p.m.

Brumbaugh Academic Center C116

Ashley Greenawalt—ASL Interpretation

Toni Harr—The Common Core in Public Education

Khine Sein—Hidden Danger in the Water

Founders Hall 420

Harris Dunlap—A Catalyst for Peace: The Efficacy of photography in conflict transformation

Goran Skinder—Intergenerational Inquiry into the place and identity of the displaced Yugoslav community

Zeljana Varga—Exploring Concepts of Justice within the Bosnian Diaspora Community in the United States

Brumbaugh Academic Center C109

Frank Filkosky—A Comparative Analysis of the International Responses to Conflicts in Rwanda and Darfur

Gregory Logue—Rebranding Conservatism

Michael Walker—Does democracy facilitate better education? The case of sub-Saharan Africa

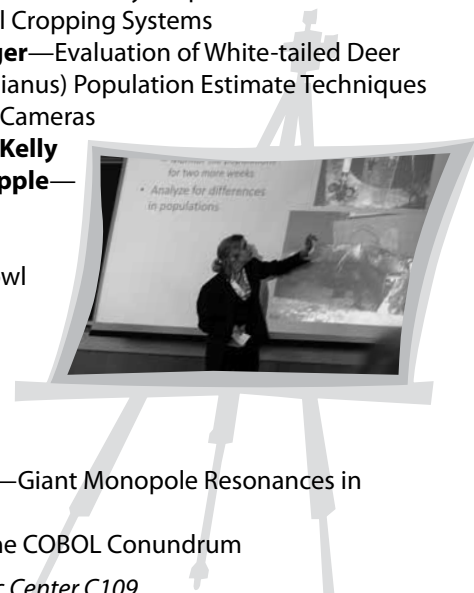
Brumbaugh Academic Center C225

Colleen Chiochetti—Russian Identity and Conflict in the Caucasus

Ashlin Creeden—The Master and Margarita

Annalise Knies—Bound to Oil: Russia's Dilemma

Sarah Rodgers—Literary Visions of the Russian Folk



Founders Hall 309

Benjamin Tansi—Synthesis and Characterization of a Pyrophosphato-Bridged Cobalt(II) Complex
Andrea Waksmunski—No Ailment Should Be Left Behind... or Ignored

► **4:00 p.m.**

Brumbaugh Academic Center C116

Brennan Cornelius, Sara Johnson, & Sarah Hodge—Forestry Follies: A Presentation on a Collaborative Interdisciplinary Field Trip for Eighth Grade Students
Nathan Salamone—Does the Khan Academy Bloom? A Critical Analysis of the Khan Academy.
Sarah Hayes—Increasing Funding for Early Intervention in Foster Care Children

Founders Hall 420

John Apostolides—Intention concepts and brain-machine interface
Monica McGrath—Elaborate growth history in secondary euhedral quartz as revealed by SEM-CL mapping, Mahantango Fm, PA

Brumbaugh Academic Center C109

Alex Dintruff—Lincoln and Reverence for the Law
Erin Kreischer—Ecuador's Environmental Revolution: Real regulations or a convincing ruse?
John Lugg—Return on Transportation Infrastructure Investment



Founders 309

Bryan Aungst—Lost in a Woman's World: A Narrative Criticism on the Changing Perceptions of Male Nurses
Avery Fordham—Trials and Tribulations in Chemistry: Functionalized Adamantane Tectons Used in the Design of Mixed-Ligand Copper(II) 1,2,4-Triazolyl/Carboxylate Metal—Organic Frameworks
Chesney Richter—The Spectroscopic Analysis of Cumin Spice Using Laser-Induced Breakdown Spectroscopy

Posters: 9:00 a.m. – 5:00 p.m.

Sill Board Room, von Liebig Science Center

Posters will be on display from 8:30 until 5:00. Students will be stationed at their posters at the times listed below.

► **9:00 a.m.**

Justin Bookhammer—Smart Phone Security
Katie Ferguson—ABE Senior Assessment
Olivia Moody, Sungouk Park, Meagan Floyd, Julia Sechrist, & Andrew Gill—Refining Measures of Bilingual Lexicon Activation
Ethan D. Nichols & Abdullah Elgabrowni—Nanoweapons and Nanomedicine
Jacob Oster—Impact of the Biodiversity and Feeding Groups of Macroinvertebrates on bioaccumulation of Hg in *Salvelinus fontinalis* (brook trout)
Brandon Reis, Monae Dewitt, Anastasia Pepelyaeva, & Robert Parker—Gender in Intimate and Casual Touch

► **10:00 a.m.**

Jessica Hatter—Genetically Modified Foods and their Effects on Public Health
Heidi Kleber, Kyle Clemmer, Erica Nagle, Ethan Farrell, & Zane Kelton—Online Learning and Social Network Assessment
Sydney Masters—The Puzzle of Emotional Cheating
Cara Stough—Metallic Complexes of Phenolics in Wine
Nathan Strom—On Synthesis of Single Molecule Magnets Using Aromatic Amine N-Oxide Ligands
Gina Zigerelli—What Everybody is Missing in the Attachment Parenting Debate

► **11:00 a.m.**

Jeannine Haizlip—The Family Unit and the Effect Future Technologies Have On It
Joshua Jessell, Justin Bookhammer, & Derrike Bellows—Holography
Thomas Jordan—Synthesis of Metal Complexes with the Unique Ligand 1,10-Phenanthroline N,N' Dioxide
Alexander Koval—A New Approach to Pyridine N-Oxides
Nicholas Morgan—"Synthesis and Study of 3-Hydroxy Imidazole 1-Oxide Metal Complexes"
Cameron Stevens—Synthesizing vinyl azides through a transition metal-catalyzed coupling of vinyl triflates and metal azides

► **1:00 p.m.**

Kathryn Brown—The short-term effects of TNF on intestinal villus structure
Mitchell Dunkleberger—Shifts in the gut microbiota of inflammatory bowel disease patients in a longitudinal study
Avery Fordham—Investigations of influence of various cupric salts on formation of pyridine N-oxide Schiff bases
Christopher McMahan, Maximillian von Thaden, Yu Xiong, & Weihua Wang—Innovations For Industry—Quinn Analytics
Kelsey Morgan—Three Decades of Dormancy: Completing the Analysis and Curation of the Heine Site
Nathan Wilson & Aaron Womer—Characterization of Rtt105p

► **2:00 p.m.**

Anthony Glossner—"Biometrics: The Search for a Safer, More Secure Cyber-World"
Leandra Glumac—The Effects of Macrophyte Beds on Water Quality Near Raystown Field Station
Alyssa Grube—The Impact of Cultivation on Bacterial Community Structure in the Great Prairie Microbiome
Huiqing Hu, Aric Koestler, & Samantha Stroup—Comparing Text Characteristics of Expressive and Values Writing
Anwar Moledina Georges-Abeyie, Emily Anne Moore, & Alexandra Witter—Deer Browsing Effects on the Successional Growth of the Raystown Area

► **3:00 p.m.**

Emily Harakal & Stephanie Finamore—Finding the Cure for a Forest Epidemic

Kaitlin Krueger—A Tail of Two Squirrels: Differentiating Delmarva Fox Squirrels from Eastern Grey Squirrels using bone fluorescence

Vincent Smith—Marketing Strategies for Kdan Mobile

Caroline Solomon—The Response of Freshwater Aquatic Microbial Communities to Marcellus Shale Natural Gas Extraction

➤ **4:00 p.m.**

Harris Cauler, Tessa Thomas, Joseph Giebel, & Jordan Cheslock—Technology and Education: How Much Should They Go Together?

Janelle Howard, Kelsey Fuller, Courtney Lydick, & Taylor Vidal—Decoding Facial Reactions: “Stop the Bullets, Kill the Gun”

Huiqing Hu—Expressive Writing and Empathy in Individuals who have Experienced Gender, Ethnic, or Religious-Based Discrimination

Travis Russell & Mikaela Sloan—Overwintering Ecology of Box Turtles (*Terrapene carolina*) at the Raystown Field Station

Rebecca Strohm & Rachel Walman—Livelihoods of Pondicherry, India Fishing Villages—A Comparative Study

Kenyatta Thompson—Death Anxiety in Relation to Religiosity

Library

Posters will be on display from 8:30 until 5:00. Students will be stationed at their posters at the times listed below.

➤ **9:00 a.m.**

Timothy Berguson—Using Geant4 Simulations to Model a Muon Detector

Peter Defnet—Provenance determination of Cassiterite using Laser-Induced Breakdown Spectroscopy

Karen Warpinski, Shannon Adams, Travis Russell, & Joel Rhodes—Establishing Long Term Monitoring of Bird Communities in Constructed Wetlands

Christopher Cueto—Mechanism of the formation of 1-indanone via the base-catalyzed condensation reaction of o-phthalaldehyde with malonic acid

Nathan Higgins—Arduino based controlled system for monitoring environmental conditions and optimizing storage of energy

➤ **10:00 a.m.**

Patrick Oelschlager—Brook trout (*Salvelinus fontinalis*) age estimation and mercury levels in remote PA streams

Jonathan Partsch—Eastern Hemlock Needle Drop and the Nitrogen Leached to Aquatic and Terrestrial Ecosystems as a Result of Hemlock Woolly Adelgid and Hemlock Scale

Benjamin Sexton, Laetitia My, & Rob Strauss—Gender and Proxemics in Academic Environments

Jessica Toot & Elias Murphey—Gender Bias in Prosecutorial Decision Making

Anwar Moledina Georges-Abeyie—Statebuilding and Secession: Understanding Mali

➤ **11:00 a.m.**

Zachary Alexakos—Determining Practical Applications of the Biefeld-Brown effect in Electrohydrodynamic Propulsion

Jennifer Arbella—Malevolent Mercury

Theresa Ginley—Automation of the Juniata Observatory to Support Remote Operation

Zachary Palchak—Copper-catalyzed asymmetric reductions of aryl 2H-azirines

Zhonghong Tu, Jordan A. Cheslock, Ethan D. Nichols, & Amy E. Miller—I4I—MBG project poster

➤ **1:00 p.m.**

Evan Decker—Monitoring White-Tailed Deer (*Odocoileus virginianus*) Population

Haruka Endo—Food Education

Ethan Farrell—Social Engineering

Matthew Flaugh—Investigating Forced Radioactive Decay Through Laser Resonance

Robert Parker—Synthesis and Mass Spectrometry of Differentially Deuterated tribenzylpyrogallol

➤ **2:00 p.m.**

Dakota Bearden, Annette Masterson, Rose Lucidi, & Lousie Vandebussche—Are You Laughing because I’m Attractive?

Kayci Nelson, Patrick Murray, Tessa Thomas, & Kaitlin Spangler—Implementation of Course Management Software at IFC

Angela Shaffer—Determination of abundance and ratio of hemlock woolly adelgid and elongate hemlock scale on decline of eastern hemlocks

Adam Steele, Kathryn L. Finkenbinder, Alexander J. Heicher, & Brandon J. Felus—HCVB—Digital Signage Opportunity

➤ **3:00 p.m.**

Corinne Dorais—Studying the visual response to low light levels at various lengths of time in dark conditions

Brian Eakin—Synthesis and complexation of 1-hydroxy pyrazole

Erik Krueger—The Economic Impact of Legalizing Marijuana

Elliott Perow—Morphological Changes in *Salvelinus fontinalis* (Brook Trout) Exposed to Mercury

Steven Strutt—Metatranscriptomics of Beach Microbial Community Response to the Deepwater Horizon Spill

➤ **4:00 p.m.**

Cristin Albert, Yu Miao, Ines Nau-Lille, & Felicia Segelken-Delhi—Is Touch Gendered?

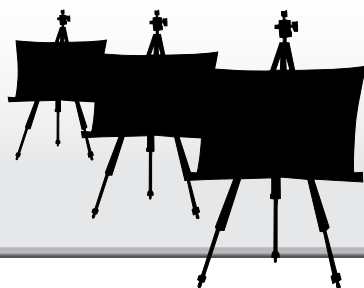
Timothy Berguson—Estimating Cosmic Exposure for Ultra-low Background Experiments

Clayton Cooper—The Larga and Complicada History of Spanish Vino

Alexander Mace—Time-Dependent Behavior of the O’Connell Effect in Eclipsing Binary Systems

Daniel McClung, Shayna Yeates, & Sarah Trescher—A cross-examination of two different measures of authoritarianism and threat





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