

Day long fun...

► **All day, student art and demonstrations, von Liebig lobby.**

► **12:00–1:00 p.m., Music and More,** Performances by the Jazz Ensemble, directed by Dan Yoder, and the Honors Woodwind Quintet and the Clarinet Choir, coached by Professor Janet Berlin. *Detwiler Plaza, Rain Location: Rosenberger Auditorium.*



► **7:30 p.m., Juniata Theatre Presents** *Death: A Comedy... With Music*, a devised play developed in Performance Lab, using the real words of others to create a collaborative evening of theatre.

Conceived and mentored by visiting director, K.J. Sanchez, students conducted interviews with people who work in industries in and around death and dying, from family members to spiritual mediums; from clergy, to funeral home workers. These interviews were then distilled and shaped into a surprisingly funny, thought provoking and moving evening of theatre. Original live music composed by Phil Pickens. *Suzanne von Liebig Theatre.* Shows will run from April 13-16.



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

Thursday, April 14

“Mountain Day of the Mind”



A day-long celebration of student research, project development and performances.



The first author is listed. For a full list of authors and abstracts, go to www.juniata.edu/academics/research/symposium.html

Presentations

9:00 a.m.

Neff Lecture Hall

Natacha Bohin — Identification of a putative secretory component-binding protein in *Streptococcus pneumoniae*
Ashley Cunningham — Characterization of IgG binding domains within Streptococcal surface proteins
Teresa Giannini — Using stable isotopes to investigate niche characteristics of the Eastern mud turtle, *Kinosternon subrubrum subrubrum*, and common musk turtle, *Sternotherus odoratus*

Brumbaugh Academic Center C116

Ashley Bauer — PA DEP Surface Water Assessment Program: An Analysis of Water Quality at Spruce Creek and the Little Juniata River
Jamie Hersh — Heavy Metal Accumulation in Wildlife (*Canis latrans*) and Domestic Cattle (*Bos taurus*)
Anna Jaworski — Foliar Morphology of *Castanea dentata* Subpopulations in Pennsylvania

Founders Hall 309

Andrew Murdock — Data Mining and Information Visualization
Li Kou — Analyzing Admission Data
Mark Berguson — Working Towards Automating the Detection of Extreme Space Weather Conditions at Earth's Magnetosphere Using Geosynchronous Observations and Magnetopause Models

Brumbaugh Academic Center C109

Kenneth Noga — An Argument From Authenticity Against Full Virtual Immersion
Alexander Weimer — Personal Identity as a Necessary Condition of Death
Jake Weller — Epistemological Structures of Truth

Founders Hall 401

Tierney Miller — Accepting a Failing System: The United States Public Education System
Viliyana Maleva — Optimism and Academic Achievement
Blair Saul — The Efficacy of Federal and State Policies on the Reduction of Childhood Obesity

10:00 a.m.

Neff Lecture Hall

Allison Johnson — Identification of a mouse IgA binding protein from *Corynebacterium pseudodiphtheriticum*
Andrew Melber — Characterization of mutant alleles of RTT105 in *Saccharomyces cerevisiae*

Brumbaugh Academic Center C116

Nathan Miller — Environmental impact of Marcellus shale drilling
Christine Mucciolo — Monitoring first order streams for indicators of contamination from Marcellus Shale drilling
Sean Patrick — Data Mining Environmental Attitudes

Founders Hall 309

Carolyn Gibson — The Fulbright Program's Intention
Megan Lopez — Unraveling Sustainable Development
Kathryn Low — Gorbachev's Decisions

Brumbaugh Academic Center C109

Kenneth Goodfellow — Measuring Planck's Constant through LED methods
Austin Ankney — Characterizing Muon Fluence Near the Earth's Surface
Brad Dinardo — Measuring the Mass of Super Massive Black Holes by Examining Spiral Galaxy Pitch Angle

Founders Hall 401

Chris Carr — Doing With: Experiential Learning in a Senior Seminar Capstone Course
Brittany Gregory — Marginalized Masculinities in the U.S. and U.K.
Kirsten Olson — Inuit Art: The evolution and survival of Inuit Art in the Modern World

11:00 a.m.

Neff Lecture Hall

Anne Staudenmaier — Energetic cost and implications of tail autotomy in *Sceloporus undulatus*
Alexander Weimer — Genetic variability in competitively grown *Cucurbita maxima* cultivars: estimating heritability of fruit size and pollen size-inducing effects using single parent-offspring regression
Mark Weir — The characterization of RTT105, a regulator of Ty1 transposition in yeast

Brumbaugh Academic Center C116

Michele Seroskie — The Effects of Marine Acidification on the Population Density of *Gnathostomulida*
Blake Colaianne — Determining the best use of visuals in the geosciences classroom
Justin Paul — A Study of the Physical and Chemical Weathering of the Marcellus Shale in Central Pennsylvania

Founders Hall 309

Michael Baker — Towards a Procedurally Generated Platform Game
Christopher Hegland — Biangular Coordinates
Kelsey Deck — Verbal Aggression in “Hannah Montana”: An Exploration of Young Girl Identity Construction Through A Cultural Studies Approach

Brumbaugh Academic Center C109

Kenneth Goodfellow — Simulation of Acoustic Propagation and Creation of Phononic Crystals
Katerina Korch — A Micelle Templated Approach For Carbon Dots
Kenneth Goodfellow — Bidding Connect Four

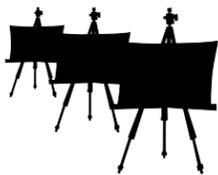
Founders Hall 401

Alisha Gray — The journey from polytheism to monotheism in biblical religion
Shelleisha Salmon — Rural Food Insecurity
Ka Ho Wong — Human Rights in China

Founders 420

Mary Munion — Whole-Class Presentation: Telling their Stories—Slave Narrators in the 19th Century and in the 21st Century





2:00 p.m.

Neff Lecture Hall

Erik Dulick — An analysis of mythological archetypes and their influence on reality television: A closer look at the Hero's Journey and mythic structures present in the reality show Survivor

Erica Harp — The Problem with Pink: Ideology and Impact of the Breast Cancer Brand

Lauren Seganos — Is it News or Comedy? Analyzing Jon Stewart's Coverage of the "Ground Zero Mosque" Through Cluster-Agon Analysis

Brumbaugh Academic Center C116

Elaine Carney — Character Analysis of Iago from Shakespeare's Othello

Nicholas Galante — Dark Prince Ascendant

Kaitlyn Kunstmann — Little Red Riding Hood

Founders Hall 309

Fatema Abdulla — The Smallest Controversy in the Middle East

Danielle Fulmer — Civil War Peace Accords: The Role of Social Identity

Brumbaugh Academic Center C109

Arnab Chakrabarti — Sudan: Growing tensions between the United States and China?

Sarah Dotter — A Political Analysis of Othello

John Huffstetler — American Indian Founders?

Founders Hall 401

Anne Staudenmaier — Devotion and Damnation: Dante's Portrayal of Love in the Inferno

Jessica Toot — Levirate Marriage in the Bible: Support for Women in an Androcentric Society

Anne Staudenmaier — The Dew Breaker: A Study in Trauma and Recovery

Brumbaugh Academic Center C225

Corryn Kosik — Illusion and Reality: Fabricating the Imperial Images of Henry VIII and Louis XIV

Emily Mayernik — The earth is blue like an orange: Absurdity in Art

Erica Strang — Practice Makes Perfect: A Look Into the Preparatory Processes of Georges Seurat and Paul Signac

Naomi Bean — An Architect Ahead of her Time: the Untold Story of Sarah Losh

Ellis Ballroom

Lauren Cline — Storytellers of the Future

3:00 p.m.

Neff Lecture Hall

Blake Colaianne — Tips from Edward Tufte: Displaying technical information in a non-technical way

Benjamin DeHass — ESL Students' Views of Friendship with US Students: A Qualitative Approach to the Difficulties of Developing Intercultural Friendships

Janelle Smith — Facebook Construction of an Online Identity: An Alternate Presentation of Self

Brumbaugh Academic Center C116

Elizabeth Buenzli — The Eyes of Imperialism: Postcards of North African Women Mailed to Britain

Daniel Follett — Monte Cassino: How Geography, Weather, and Climate effected the outcome of the battle

Christina Gongaware — Chinese Hooligan Literature: Finding the Roots of Anti-establishment Writing

Founders Hall 309

Juliet Garlow — An Analysis of US Maternal Mortality

Lily Kruglak — Preventing Genocide: Why We Must Risk Failure

Razma Qadir — Who are the Taliban? Can we negotiate with them

Brumbaugh Academic Center C109

Anne Wakabayashi — The West Wing and the American Presidential Ideal

Michelle Yockelson — Challenging Modern Assumptions: Democracy in Pre-colonial Africa

Zachary Gordon — The New Solid South

4:00 p.m.

Neff Lecture Hall

Christopher Hegland — Birdman Benny

Elizabeth Linde — Cultural Perspectives: The Aged

Brumbaugh Academic Center C116

Patrick McShane — The Gaelic Athletic Association and Irish Nationalism 1884-1916

Jodi Oxenreiter — Vaudeville and the Yellow Peril: The Intriguing Story of Chung Ling Soo

Samantha Stroup — "Small Things" leave a big impression

Founders Hall 309

Michael Baker — What's on your Mind? A Philosophical Inquiry into Facebook

Tucker Good — The Meaningless Idea of Original Human Nature

Jessica Kaplan-Bie — The Indispensible Tug-of-War

Brumbaugh Academic Center C109

Marina Kornikhina — A school to prepare young women—politicians

Kathryn Martucci — How international law has influenced the United States

Elizabeth Van Blarcom — The Politics of Soccer: the power of the global game

Posters

9:00 a.m. – 5:00p.m.

Library

Posters will be on display from 8:30 until 5:00.

Students will be stationed at their posters at the times listed below and one additional hour of their choice.

9:00 a.m.

Sara Bean — Slick but Substantive: An Audience-Focused Redesign of an Admissions Magazine

Sergio Lopez — Social Networking in Communication

Matina Patsos — In the Blink of an Eye; Exploring the Process of Digital Editing

Elizabeth Donovan — ricekingdom.com: Using Information Technology to Present the Past

10:00 a.m.

Jake Weller — The Hunter-Naturalist

Claire Wayman — Small College Intercollegiate Band, Seattle, Washington, March 22-28

Miroslav Gabrovski — Does fertility affect unemployment?

William Hauck — Business in China

Sara Bean — Touch & Juniata's Basketball Teams

Thomas Eck — Hot or Not?: Identifying Differences in Facial Attractiveness Perception Between Groups and Individuals

11:00 a.m.

Kristyn Ginter — The Gestures of Memory

Samantha Morgan — Sensitivity in Recognizing Universal and Blended Facial Expressions of Emotions

Katie Shughrue — Nonverbal Communication: Is Touch Gendered

Matthew Tundel — Managing advanced technologies presentation of UteachUlearn.com

Rachel Adams — Do False Cognates Activate the Bilingual Lexicon?

Jordan Baney — Psychological Critical Thinking

2:00 p.m.

Rhiannon Bircher — Varenicline's Cognitive Enhancing Effects in an Animal Model of ADHD

Erin McVicar — Interruption and memory: In pursuit of the Zeigarnik effect using a word-association task

Kelsey Roman — Priming Buzz? Faster Lexical Decisions after Reading about Caffeinated Beverage

Joel Slaff — Happiness Is a Virtue: A Deeper Look Into the Happiness Index and Its Global Effect

3:00 p.m.

Brittany Gregory — Access to Transportation: Who gets left behind in Baltimore and London?

Sheleisha Salmon — Aging, AIDS & African American women

Chelsea Wilson — What is Good Hair?

Ka Ho Wong — The CouchSurfing Project

Sill Board Room

Posters will be on display from 8:30 until 5:00.

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9:00 a.m.

Zachary Cupler — Visualizing Cellular Localization of RTT105 using Fluorescence in situ Hybridization

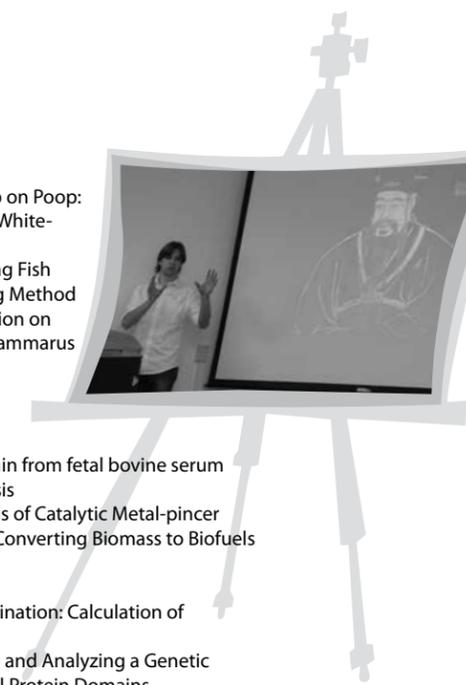
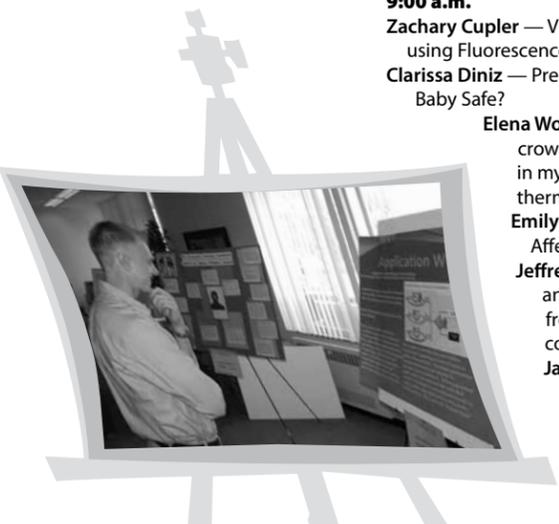
Clarissa Diniz — Preeclampsia: Are You and Your Baby Safe?

Elena Woiciechowska — Macromolecular crowding induces conformational changes in myoglobin and increases its resistance to thermal denaturation

Emily Supenia — Macromolecular Crowding Affects the Diffusion of Calmodulin

Jeffrey Gring — The effects of temperature and body size on the metabolic rate of the freshwater amphipod Gammarus minus, a comparison of two models

Jake Hartberger — Otolith, Fin Ray, and Scale Techniques for Aging Wild Brook Trout Populations



10:00 a.m.

Megan Hourigan — The Scoop on Poop: A Study of Fecal Parasites of White-Tailed Deer

Camron Keshavarz — Analyzing Fish Otoliths as an Effective Aging Method

Heather Kostick — Fish Predation on the Freshwater Amphipod Gammarus minus: Do Eyes Matter?

Ceth Parker — Detection of a novel Igy binding protein in Gardnerella vaginalis

Keiko Sing — Depleting albumin from fetal bovine serum to facilitate proteomic analysis

Matthew Scott — The Synthesis of Catalytic Metal-pincer Complexes in the Pursuit of Converting Biomass to Biofuels

11:00 a.m.

Lauren Taylor — Oblique Illumination: Calculation of Increased Resolution

Christopher Yip — Developing and Analyzing a Genetic System for Shuffling Bacterial Protein Domains

Kristin Beiswenger — Water-Directed Selenium Dioxide Oxidations

Samantha Bristol — Determining the origin of obsidian samples using laser-induced breakdown spectroscopy (LIBS)

Keith Hilferding — LIBS Limit of Detection Analysis

Zhongwei Hu — Designing New Stationary Phases in Gas Chromatography

2:00 p.m.

Katerina Korch — Progress Towards the Synthesis of Polyhydroxykekulene

Alyssa Kress — Analysis of Silver Coins using Laser-induced Breakdown Spectroscopy

Katie Shughrue — The Analysis of the 'Conflict Minerals' Columbite-Tantalite using Laser-induced Breakdown Spectroscopy (LIBS)

Erika Bendick — Think "Spring": A Study of White-tailed Deer Population Density Around Natural Springs in Huntingdon County

Monica King — Kill Deer, Save Trees?: How White-tailed Deer Affect Forest Regeneration

Karen Warpinski — An Attractive Aroma? A Study of White-Tailed Deer Attractants in the Non-Breeding Season

3:00 p.m.

Michael Nguyen — Copper Isotope Signatures as an Exploration Tool in the Pebble Porphyry Deposit

Dustin Drake — Network & Data Security

Eric Hill — Mutual Benefit Group Extranet/Intranet

Eric Hill — How Linguistics Can Augment Voice Recognition Technology

Chad Kulik — Fusion Centers

Chad Kulik — An Analysis of Gaming Culture

4:00 p.m.

Mark Ruffer — How to get the secret key out of a GSM SIM-card
Brad Dinardo — Examining the Sensitive Effects of Updrafts on Tornadogenesis

Austin Ankney — Studying of Muon Attenuation

Nicholas Bauer — Comparison of Radiation Risk Models

Amy Frantz — Video Analysis

Brandon Moyer — Green Catalysis: Synthesis and characterization of metal XNX (X = PR2, SR) pincer complexes with potential use as transfer hydrogenation catalysts in the production of the liquid biofuel 2,5-dimethylfuran (DMF)