

**UNDERGRADUATE RESEARCH SYMPOSIUM 2014: SESSIONS AT A GLANCE**

<b>12:00 to 1:00 pm</b>	<b>Registration:</b> Check-in at 4th floor lobby										
<b>1:00 pm to 1:20 pm</b>	<p align="center"><b>Opening Session:</b> Alderson Auditorium  <b>Welcome:</b> John Augusto, Center for Undergraduate Research  <b>Opening Remarks:</b> Chancellor Bernadette Gray-Little  <b>Presentation of Awards:</b> ACE Research Talks</p>										
Session 1: ACE Talks	Alderson	Malott									
<b>1:30 pm to 2:30 pm</b>	ACE Research Talks, sponsored by James K. Hitt Award, University Honors Program	ACE Research Talks, sponsored by Center for Undergraduate Research									
Session 2		Malott	Big 12	Alcove G	Centennial	English	Jayhawk	Hawks Nest	Kansas	Pine	
<b>2:45 pm to 3:45 pm</b>		Interdisciplinary 1	Social Science 1	Student Prep Room	STEM 1	Building Spaces, Building Ideas	Interdisciplinary 2	Creative Works	Posters: STEM	Getting Started in Research Panel	
<b>3:45 pm to 4:15 pm</b>	<b>Break: Join us in the 4th floor Lobby for snacks, informational tables, and a chance to take your photo with your friends, labmates, mentors, and family.</b>										
Session 3		Malott	Big 12	Alcove G	Centennial	English	Jayhawk		Kansas	Pine	
<b>4:15 pm to 5:15 pm</b>		Interdisciplinary 3	Social Science 2	Student Prep Room	STEM 2	Humanities	STEM 3		Posters/Displays: Interdisciplinary	Getting Started in Research Panel	
<b>5:30 pm to 7 pm</b>	<p align="center"><b>Banquet:</b> Ballroom  <b>Welcome:</b> John Augusto, Center for Undergraduate Research  <b>Presentation of Awards:</b>  K. Barbara Schowen Undergraduate Research Mentor Award  Undergraduate Research Mentor Award  Outstanding Presentation Awards</p>										

**Undergraduate Research Symposium Program**  
**Saturday, April 26, 2014**  
**University of Kansas, Kansas Union**

**12:00 – 12:50 – Registration (sign-in & name tags) – 4<sup>th</sup> Floor Lobby**

**1:00 – 1:20 – Opening Session – Alderson Auditorium**

Welcome: **John Augusto**, Center for Undergraduate Research

Opening Remarks: Chancellor **Bernadette Gray-Little**

Presentation: ACE Research Talk Winners

**1:20-1:30 – Break**

**1:30-2:30 – Session 1: ACE Research Talks**

**ACE Research Talks, sponsored by the James K. Hitt Award, University Honors Program**

**Alderson Auditorium:**

**1:30: Gavin Hanson**, The Role of Attention in Goal-Directed Semantic Retrieval: Evidence from Multi-Voxel Pattern Analysis

**1:50: Megan Nelson**, Tipping: An Economic Anomaly

**2:10: Mitchell Newton**, Utilizing Microdialysis and Electrocortigraphy to Understand Seizure Activity in the Brain

**ACE Research Talks, sponsored by the Center for Undergraduate Research**

**Malott Room:**

**1:30: Josh Russell**, Resources and Educational Outcomes: A Look at Kansas and Missouri Public Schools

**1:50: Rachel Cross**, Eco-poetics and the Academic Ecosystem: A Step-by-Step Guide for the Anti-Colonialist

**2:10: Alex Kong**, Evaluating Derivatives of Vitamin E as Therapeutic Agents for Alleviating

**2:30-2:45 – Break**

**2:45-3:45- General Session 2**

**Undergraduate Student Panel: “Getting Started in Research”**

**Pine Room**

**Moderator: Dyan Morgan**, Center for Undergraduate Research

**Student Panelists:**

**Greg Ervin**, Interdisciplinary Computing, Biology

**Alex Kong**, Pharmacy

**Schuyler Kraus**, Environmental Studies

**Performances/Creative Works:**

**Hawk’s Nest (First floor):**

**2:45: Tasha Cerny**, Princess Poetics: (re)Defining Disney's Social Constructs

**3:05: Magge Boyles**, Women of the Yiddish Stage

**3:25: Natalie Sabillon**, Jip the Zebra Children's Book Creation

**Oral Presentations:**

**Big 12: Social Science 1**

**2:45: Jake Thompson**, Dissociating Cognitive and Affective Empathy

**3:00: Max Bearce**, Japanese Internment as Collective Memory: Implications on Identity and Identity-Related Outcomes

**3:15: Jeffery Durbin**, The Role of Morphemes in Novel Compound Recognition

**3:30: Danielle Siebert**, Perception of Religious Discrimination in Judgments of Law Enforcement Behavior

**Malott Room: Interdisciplinary 1**

**2:45: Hannah Duff**, Mining Peru: Robbing Resources or Sustaining Livelihoods?

**3:00: Allison Williams**, Natural Gas, A Foundation Fuel for the Future: Inconsistencies and Themes in Hydraulic Fracturing Data

**3:15: Kimberly Lopez**, The Politics of Female Breasts: The Social Stigma Behind Breastfeeding

**3:30: Hannah Jayne**, Sex Education of the US Military: A Rhetorical Analysis of WWII Propaganda

**Centennial Room: STEM 1**

**2:45: Mackenzie Bloom**, Improving Transfection Efficiency via Nucleofection with Umbilical Cord

Stem Cell Concentration

**3:00: Kyle Lockhause**, Ashes to Ashes: The Survey of the *Fraxinus Pennsylvanica* on the University of Kansas's Campus

**3:15: Caleb Christianson**, Development of Custom Staggered Herringbone Microfluidic Chips for Rapid Mixing of Liposomes and Stable Nucleic Acid Lipid Particles

**3:30: Holly Lafferty**, Hunger Games: Isotope Ratios in Nutrient Stressed Fish

### English Room: Building Spaces, Building Ideas

**2:45: Adeola Adewale**, First Texans Museum, Dallas: Deconstructing the Native American Dwelling Stereotype

**3:00: John Stolze**, The Digital Medium: evolving pedagogies

**3:15: Corey Boucher**, Creating a 'Homeplace' in Temporary Living Environments: Residents' Evaluation of KU Scholarship Halls

**3:30: Nicholas Colbert**, First Texans Museum - Dancing Informs Design

### Jayhawk Room: Interdisciplinary 2

**2:45: Melanie Funk**, Dimensions of Trust: A Grand Isle, Louisiana Study

**3:00: Matthew Hobart**, Logging on to New Identities in Contemporary Art: Identity, the Internet and Ambiguity in the Work of Jayson Musson

**3:15: Jamie Fuller**, Exploring discrepancies between development discourse and social realities in Dakar, Senegal

**3:30: Candice L'Ecuyer**, Atrazine in our Drinking Water: What is Acceptable and How it is Determined

## Poster Session: STEM

### Kansas Room:

**Thomas Anneberg**, Resolving the subspecies status of *Drosophila americana americana* and *Drosophila americana texana*.

**J. Frank Auten**, Microtubule Inactivation with the Drug Paclitaxel

**Jeff Bauman**, Integration of Microfluidics into Analytical Chemistry Instrumental Analysis Laboratory: Microchip Electrophoresis with Electrochemical Detection for Quantitation of Nitrite in Cured Meat Samples

**Tyler Berry**, Dielectric Measurements Using A Vector Network Analyzer For Greenland And Antarctica Ice Core Samples

**Taylor Broadhead**, Acoustic Analysis of a New Species of Shrub Frog in the Genus *Platymantis*

**Qiao Yi Chen**, The Synergistic Effect of Arsenic and High Glucose on Mitochondrial Function in Human Cerebral Microvessel Endothelial Cells.

**Kimberly Cole**, The Differences between the Knee Lowest Point Translations of Three Simulated Walking Profiles

**Marika Crider**, Comparison of Intact and Meniscectomy Passive Knee Laxity in Cadaveric Specimens

**Erin Evans**, Separation optimization of biogenic amines present in *C. elegans* using microchip and

capillary electrophoresis

**Erin Evans**, Effect of calcium free seawater and p-aminobutyric acid on development of *Dendraster excentricus* and *Strongylocentrotus purpuratus*

**Cori Fain**, Effects of ethynylestradiol on sea urchin embryonic development: adverse effects at relevant oceanic concentrations

**Ashley Farris**, A Comparison of Two Polymers for Application in 3D-Printed TMJ Implants

**Marcus Florez**, Investigation of Genetic Links to Alzheimer's Disease: Analysis of APOE, TOMM40 and Mitochondrial Genome

**Alexander Fondaw**, The Electricidal Effect - The Treatment of Staphylococcal and Pseudomonal Biofilms Using Low Intensity Exposure to Electrical Current Via Platinum Rods

**Joseph Greenbaum**, Investigating Biological Crosstalk using Boolean Networks

**Ibrahim Gul**, Change in Range of Motion envelope of the back and the development of Low back pain

**Emily Haynes**, Modular tripeptide carrier for targeted molecular imaging with copper

**Brad Hutchison**, Characterization of the P1 Domain of PvdJ P1 from *Pseudomonas aeruginosa*

**Valerie Paul**, Disruption of development of *C. elegans* through manipulation of canonical Wnt pathways

**Pann Pichetsurthorn**, Dual-Electrode Electrochemical Detection for Microchip Electrophoresis: Voltammetric Identification of Chemically Labile Species

**Betsy Ramirez**, Isolation and Crystallization of PvdJp2, a Non-Ribosomal Peptide Synthetase Domain in *Pseudomonas aeruginosa*

**Julio Ramirez**, Shielding Effect of Asexual Reproduction on Mutation Load

**Kayla Sale**, Evolutionary history underlies plant physiological responses to global change since the Last Glacial Maximum

**Abigail Schletzbaum**, Numerical Bifurcation Analysis of Climate Change Models

**Hadley Sis**, Experimentally Analyzing Viscous Fingering Between Microbicide Delivery Gel And Simulated Biological Fluids

**Emily Smith**, Monte Carlo Modeling of Generator Level Single Top Quark Production in Association with the Higgs Boson

**Connor Stultz & Leah Wainstock**, Comparative Tadpole Morphology

**Bryce Tappan**, Reactivity and Photoluminescence Studies of Mercaptoazulenes and Their Complexes with Gold (I)

**Anna Tatarko**, Investigating the effects of tallgrass prairie restoration and plant diversity on pollinator communities in northeast Kansas

**Julia Yang**, Understanding microbial response to temperature and relative C and N availability in boreal organic soils

**3:45-4:15 – Info Session/Break**

**Join us in the 4th floor Lobby for snacks, informational tables, and a chance to take your photo with your friends, labmates, mentors, and family.**

## 4:15-5:15- General Session 3

### Undergraduate Student Panel: “Getting Started in Research”

#### Pine Room

**Moderator: Dyan Morgan**, Center for Undergraduate Research

#### Student Panelists:

**Greg Ervin**, Interdisciplinary Computing, Biology

**Alex Kong**, Pharmacy

**Casey Pederson**, Psychology

### Oral Presentations:

#### Big 12: Social Science 2

**4:15: Sarah Ekis**, Influence of Children’s Misarticulation on Preschoolers' Word Recognition

**4:30: Kristina Van Anne**, The Role of Lexical Stress in the Word Recognition of English-speaking L2 learners of Spanish

**4:45: Meritt Schenk**, Behavioral Science Goes to the Arcade: A Translation of the Generalized Matching Law to Predict and Analyze Human Performance in a Simulated Environment

**5:00: Seth Brooks**, Female Inhibitedness: The Interaction of Interest and Female Sending of False Cues

#### Malott Room: Interdisciplinary 3

**4:15: Jacklyn Baillergeon**, The New Get Out the Vote? Effects of Data Targeting on Voter Turnout

**4:30: John Stolze**, Economics of GMOs and The Transgenic Model

**4:45: Mugabi Byenkya**, No Man’s Land: An analysis of the sustainability of Uganda’s national parks system

**5:00: Kira Monet Alexander**, Sexual Health Social Policy: Dogma, Responsibility, and Consequences

#### Centennial Room: STEM 2

**4:15: Sam Buchanan**, Active-Target Multistatic Receiver Digital Section for CReSIS Radar Calibration

**4:30: Seth Polsley**, Control System Based on Electromyography

**4:45: Alina Zheng & Amy Zheng**, Neutrino Detection Using Surface Wave

**5:00: Daniel Muccino**, Quantifying Diffusion in All-Solid-State Lithium-Ion Batteries

## English Room: Humanities

**4:15: Candice Crafton**, The Marginalization of Midwives

**4:30: Kayla Overbey**, A Cultural Comparison of 19th-20th c. American and British Children's Literature

**4:45: Sean Weston**, Protestants and Poverty in Pittsburg, Kansas: 1890-1900

**5:00: Joel Bonner**, Bringing the Intellectual and Personal Benefits of Epic Literature to Children

## Jayhawk Room: STEM 3

**4:15: Adam Miltner**, How MAB-5 Drives Posterior Migration of the Q Neuroblasts in the Model Organism *Caenorhabditis elegans*

**4:30: Jordan Koch**, Calculating Probabilities of Parsimony-Uninformative Patterns on Phylogenetic Trees

**4:45: Kendra Marr**, The Good, the Bad, and the Ugly: Factors that Contribute to Eggshell Defects in a Strain of *Drosophila virilis* That Carries a High Transposon Load

## Poster/Displays Session: Interdisciplinary

### Kansas Room:

**Alex Beck, Raisha Basnyat, & Chris Cooper**, Water Quality on Jayhawk Boulevard

**Courtney Crites**, Spatial Discrimination Enforces Patriarchy and Determines Morality

**Michaelyn Everhart**, Examining the Effects of Reading Fiction on Empathy

**Austin Griffis**, Native Texans Cultural Center Design: A metaphorical and contextual interpretation of Native American Experience

**Marcella Hangen**, Stability of Preschooler's Preference for and Reinforcing Efficacy of Edible and Leisure Items

**Rebecca Howard**, Influence of synthesized vowel sounds on neural processing of speech perception

**Clint Jensen**, Considering the Impact of Analogical Associations on Learning

**John Robert Jones**, IPA Study

**Joseph Keusenkothen, Christina Baker, Will Penner, & Sam Oberkrom**, Where We're Going we Don't Need Roads... We need Bike Paths!

**Schuyler Kraus**, An Inquiry into the Authenticity of Cleveland Ecovillage

**Nick Malley**, 86'd - A Short Film

**Austen McGuire**, Mental Strength's Effect on the Perception of Aurally and Visually Looming Objects

**Ruben Medina**, Youngsters' Perceptions of the Motivational Climate in Their Recreational Exercise Classes

**Kristin Miller**, Increasing Child Compliance with Essential Routine Procedures: Acquisition, Generalization, & Maintenance

**Julia Nehring**, The potential of milkweed floss as a natural fiber in the textile industry

**Benjamin Neitzel**, Effects of Sexual Arousal on Commitment: The Moderating Role of Threat

**Steven Reyes**, First Texans Museum in Dallas Arts District of Texas: A Contemporary

Interpretation of the Kiva

**Adrian Rivera**, Subliminal Attachment Security Priming's Effect on Sexual Strategy Preference

**Eric Rivera**, Quantifying CO<sub>2</sub> Removal in Living Walls: A Case Study of the Center for Design Research

**Elisa Rombold**, First Texans Museum

**Chloe Seim**, M, an Illustrated Novella

**Yichi Zhang**, Sleep Disruption as a Mediator between Test-taking Anxiety and Exam Performance

**5:15-5:30 – Break**

**5:30 – Symposium Banquet, Kansas Room**

**Welcome:** John Augusto, Center for Undergraduate Research

**Presentation of Awards:**

K. Barbara Schowen Undergraduate Research Mentor Award (faculty)

Undergraduate Research Mentor Award (grad student/staff)

Outstanding Presentation Awards



