42nd Annual Student Research Conference

Saturday, March 24, 2012 | Gary A. Ransdell Hall
Western Kentucky University | Bowling Green, Kentucky
### CONFERENCE SCHEDULE ###

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30-8:30 am</td>
<td>Student Registration and Information Tables</td>
<td>Lobby/Atrium</td>
<td>Breakfast Buffet Provided</td>
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<tr>
<td>10:00-10:15 am</td>
<td>Break and Information Tables</td>
<td>Lobby/Atrium</td>
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<tr>
<td>11:45-12:30 pm</td>
<td>Lunch Buffet</td>
<td>Lobby/Atrium</td>
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<tr>
<td>12:30-1:30 pm</td>
<td>Conference Spotlight on Creative Activity and Performance</td>
<td>Room 2064</td>
<td>Introductory Remarks by Dr. Farley Norman and President Gary Ransdell</td>
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<td>1:30-1:45 pm</td>
<td>Break and Information Tables</td>
<td>Lobby/Atrium</td>
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<td>1:45-4:00 pm</td>
<td>Concurrent Paper Sessions III</td>
<td>Rooms 2009, 2010</td>
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<td>4:00-4:30 pm</td>
<td>Break and Information Tables</td>
<td>Lobby/Atrium</td>
<td>Refreshments Provided</td>
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<tr>
<td>4:30-6:00 pm</td>
<td>Sigma Xi Speaker Dr. W. Tad Pfeffer and Awards Ceremony</td>
<td>Room 1074</td>
<td>Introductory Remarks by Dr. Gordon Baylis</td>
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<tr>
<td>6:00-6:30 pm</td>
<td>Closing Reception</td>
<td>Lobby/Atrium</td>
<td>Refreshments Provided</td>
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Abstracts are available at www.wku.edu/studentresearch
INTRODUCTION

The WKU Student Research Conference showcases the scholarly activities of graduate and undergraduate students of diverse disciplines from across main and regional campuses. An annual tradition since 1970, the conference has provided opportunities for thousands of students to present talks, performances, posters, exhibits, and displays on their research and creative endeavors.

WKU has a rich history of scholarly engagement of students. Scholarly activity has been defined as original and creative work that is shared with colleagues and the general public. Research is a form of scholarly activity that involves the discovery of new knowledge. Other forms of scholarship include the development of new technologies, methods, materials or uses; the integration of knowledge that leads to new understanding; and artistry that creates new insights and interpretations.* As demonstrated by the Student Research Conference, students significantly enrich their academic experiences at WKU by engaging in scholarly activity.

Between 1970 and 2002, the WKU chapter of Sigma Xi, which is an international research society, organized and funded the WKU Student Research Conference. For the next three years, the conference was jointly sponsored and organized by Sigma Xi and the University Honors Program. In 2006, WKU hosted a weekend-long celebration of student scholarship that included the Potter College Undergraduate Conference on Friday and the annual WKU Student Research Conference on Saturday, the latter again sponsored by Sigma Xi and the University Honors Program. The following year, a special committee comprised of representatives of each college, the University Honors Program, and Sigma Xi organized the conference. In 2006-2007 Sigma Xi and the Office of the Provost provided financial support for the conference.

In 2008 Provost Barbara Burch created the Student Research Council, a university-wide committee charged with promoting student scholarly activity on campus and organizing the annual student conference. Since that year, the Student Research Council has organized the annual Student Research Conference, with financial support provided by the WKU chapter of Sigma Xi, the Office of the Provost, the Office of Research, and other university units.

This year begins a new phase in the history of the conference. With support from the Office of the Provost and the Office of Research, the Student Research Council developed a weeklong celebration of student scholarship. REACH (Research Experiences and Creative Heights) Week spanned March 17-24 and featured a keynote address by archaeologist and author Dr. Brian Fagan, as well as research showcases hosted by nine colleges and programs. The conference is the culminating activity of REACH Week.

With 269 presentations, the 42nd Annual WKU Student Research Conference is, by far, the biggest in the event’s history. There are 146 papers, 111 posters/exhibits, six performances/videos, and six spotlight presentations. A total of 184 undergraduate students and 85 graduate students are primary authors this year, and an additional 151 students are co-authors.

This year’s conference features a presentation by a student of the new Educational Leadership doctoral program (Ed.D.) in the Department of Educational Administration, Leadership, and Research. Wesley Waddle is presenting a paper entitled “An Analysis of Factors Impacting K-12 Technology-Infused Lesson Design.”

Among the undergraduate participants in the conference are 69 Honors College students. In addition, 32 of the undergraduate participants are students in the Carol Martin Gatton Academy of Mathematics and Science in Kentucky. Since its creation in 2008, a total of 102 Gatton Academy students have presented at the conference. Honors College students are indicated with an asterisk (*) symbol in the session schedule, and Gatton Academy students are indicated with a caret (^) symbol.

A total of 154 faculty members served as mentors, providing expert instruction and guidance to our student researchers and artists. Student participants represent 33 departments and programs from all colleges, as listed below.

- Agriculture
- Architectural and Manufacturing Sciences
- Art
- Biology
- Business
- Chemistry
- Communication
- Communication Disorders
- Computer Science
- Consumer and Family Sciences
- Economics
- Educational Administration, Leadership, and Research
- Engineering
- English
- Folk Studies and Anthropology
- Gender and Women’s Studies
- Geography and Geology
- History
- Interdisciplinary Studies
- Management
- Mathematics
- Modern Languages
- Music
- Nursing
- Philosophy and Religion
- Physics and Astronomy
- Political Science
- Popular Culture Studies
- Psychology
- Public Health
- Social Work
- Sociology
- Theatre and Dance
STUDENT SPOTLIGHT

This year the Student Research Council is pleased to spotlight the creative works of six undergraduate students from Potter College of Arts and Letters. The performances and presentations will be held in GRH 2064 and are open to the entire campus community; this is a swipeable event for WKU students. WKU President Gary Ransdell will make introductory remarks.

Solo Performance Pieces

Two students from the Department of Theatre and Dance will perform short one-act plays that they wrote and staged. The students prepared these original performance pieces based on their research on historical figures. Their faculty mentor is Dr. Michelle Dvoskin.

Lusie Cuskey, “Finding the Words”
A performance artist looking for the story of her life meets a world-shaking activist with a lifetime of stories through the pages of history. In "Finding the Words," artist and scholar Lusie Cuskey battles the Google, shuns shotguns in suburbia, and takes to the trails Judy Freespirit began blazing decades ago in a celebration of possibility as she embarks on an epic adventure from the people she’s been to the person she wants to be.

Vicky Siegrist, “The Ties That Bind”
This performance examines the mystery of friendship, drawing lines across history between the relationship of Zelda and F. Scott Fitzgerald and the friendships of a contemporary young woman. Combining fact and fiction and drawing on memoirs, biographies, novels, and personal experience, “The Ties that Bind” examines the complexities, pain, and beauty of our most cherished friendships and relationships.

Creative Readings

Four students from the Department of English will read short, creative works. Their original pieces include poetry, fiction, and creative non-fiction. Their faculty mentors are indicated below.

Brittany Cheak, “Cord Stretched Tight” and “Daddy’s Answer to Everything”
Brittany will read two original poems. A junior majoring in Creative Writing with a minor in Gender and Women’s Studies, Brittany received first place in the 2011 Jim Wayne Miller contest and she has been published in Still. She won a scholarship to participate in WKU’s creative writing workshop with Maurice Manning. Brittany’s faculty mentor is Dr. Mary Ellen Miller.
Samantha Starr, “Listen Closely”
Samantha will read from her original fiction short story. This junior from Elizabethtown is majoring in Creative Writing with a minor in Gender and Women’s Studies. Samantha is an office worker extraordinaire in the Department of English. Her faculty mentor is Dr. David Bell.

Seanna Wilhelm, “Claustrophia” and “Fade Away”
Seanna will read two original poems. She is majoring in English (professional writing concentration) with minors in Creative Writing and Gender and Women’s Studies. Seanna received second place in the 2010 Jim Wayne Miller contest and has been published in Zephyrus. Her faculty mentor is Dr. Tom Hunley.

Tracy Jo Ingram, “How to Manage at Your First Pretentious Poetry Award Ceremony”
Tracy will read from her original creative nonfiction work. A junior majoring in English Literature with minors in Creative Writing and Gender and Women’s Studies, Tracy recently studied at Harlaxton College in England. This summer she will make a third trip to Israel and Palestine, where she serves as team captain of an international service-learning program. Tracy’s faculty mentor is Dr. Dale Rigby.

CONFERENCE SPEAKER

Dr. William Tad Pfeffer is a professor in the Geotechnical Engineering and Geomechanics Group of the Department of Civil, Environmental, and Architectural Engineering at the University of Colorado at Boulder. He holds baccalaureate and Master’s degrees in geology from the University of Vermont and the University of Maine, respectively, and his Ph.D. in geophysics is from the University of Washington. Dr. Pfeffer’s expertise is in glacier dynamics, heat and mass transfer in snow, ice and porous media, mechanics and thermodynamics of continuous media, fluid dynamics, and experimental methods in snow hydrology. In December 2011 PBS featured Dr. Pfeffer’s research on the rapid melting of arctic glaciers in a Nova special “Extreme Ice.” Among other publications, he has several articles on the relationship between glaciers and global sea level in the prestigious journal Science.

Dr. Pfeffer’s presentation is entitled Future Sea Level: Where Do We Go from Here? Sea level rise is among the most tangible and potentially costly global changes facing society in the near future. Projections of future sea level rise, based on numerical models, extrapolations of present-day observations of rates of change, and analogies with changes inferred from the paleoclimate record, produce a wide range of future
outcomes and contain significant uncertainties that most likely do not capture all of the important unknowns. The ability of the scientific community to project sea level is advancing rapidly, but is still very limited; at the same time, societal needs for clear and dependable near-term forecasts of future sea level are increasing, while political forces are at work to undermine the credibility of the scientific study of sea level rise and the reality of environmental change generally.

Much of the uncertainty in future sea level rise lies in the determination of glacier and ice sheet contributions through melting of ice and through the discharge of icebergs directly into the ocean. Dr. Pfeffer’s talk focuses on the glaciological aspects of future sea level rise. He reviews the current state of glaciological contributions to sea level change into the 21st century and beyond, with particular emphasis on the evaluation of uncertainty in projections. He explores some means of constraining uncertainty, including statistical methods and simple schemes for establishing limiting conditions. Finally, Dr. Pfeffer considers the study of sea level rise, and climate science more generally, in the political and social area in which it has been obliged to operate, and discusses some of the ways that political discourse interacts with, and confounds, scientific discourse.

Dr. Pfeffer’s presentation is open to the entire campus community and is a swipeable event for WKU students. It is sponsored by the WKU chapter of Sigma Xi.

AWARDS CEREMONY

WKU faculty and professional staff will judge student presentations, performances, posters, and exhibits at the conference. The judges will select one winner from each of the 41 sessions listed on pages 11-27 in this program.

Confession session winners will be announced and acknowledged after Dr. Pfeffer’s Sigma Xi presentation in the late afternoon. All students who presented papers and posters at the conference, as well as family members, friends, faculty mentors, and administrators, are invited to attend.

A special feature of the Awards Ceremony is recognition of Dr. Valgene L. Dunham, Distinguished Professor Emeritus at Coastal Carolina University and former faculty member at Western Kentucky University. During his tenure at WKU, Dr. Dunham was instrumental in creating opportunities for undergraduate research in the Department of Biology. Though we have come to take it for granted, as demonstrated by the hundreds of students participating in this year’s conference, at that time it was very unusual for undergraduate students at WKU to engage in research, much less to receive course credit for doing so. Dr. Dunham, however, had a passion for integrating independent student research experiences into the science curriculum.
Dr. Dunham truly believed that a research experience was pedagogical. In the late 1980s, this was a revolutionary viewpoint. His resilient push to incorporate a strong undergraduate research program into the molecular sciences is one of the main reasons why WKU is known for providing students with the critical-thinking and technical skills necessary to enter highly competitive graduate programs at Yale, John Hopkins, Berkeley, Vanderbilt, and other research institutions. Dr. Dunham’s pioneering dedication to undergraduate research in biology helped to lay the foundation for similar opportunities across the WKU campus.

Receptions with light refreshments will be held before and after the Sigma Xi speaker and awards ceremony.

--- INFORMATION TABLES ---

Representatives from a variety of campus offices and organizations will be hosting informational tables in the Lobby/Atrium during the WKU Student Research Conference. Students are encouraged to visit the information tables throughout the day.

**Study Away** provides off-campus for-credit learning opportunities. Focusing on partnerships in creative learning, Study Away extends the classroom beyond the campus borders to increase a sense of citizenship and enhance American cultural understanding. A premiere part of Study Away is the National Student Exchange, in which students spend a semester or an academic year at one of over 183 campuses throughout the United States, Guam, Puerto Rico, and the U.S. Virgin Islands. Pay WKU tuition, while taking courses that may complement your WKU degree. **Contact** Jerry Barnaby at study.away@wku.edu or visit www.wku.edu/studyaway

The **Kentucky Institute for International Studies (KIIS)** provides WKU students across the academic spectrum with study abroad opportunities in Europe, Africa, Asia, Canada, and Latin America. KIIS is recognized as a leader in international education and is one of the most cost-effective study abroad organizations in the United States. KIIS programs are faculty-led and all course credit is issued by WKU. Undergraduate, graduate, honors, and non-degree seeking students are welcome to apply. WKU faculty are invited to teach abroad with KIIS. Visit www.kiis.org for scholarship, application, and program information. **Contact** Dr. John Dizgun at kiis@wku.edu and 270-745-4416

The **Office of Graduate Studies and Research** provides information regarding graduate programs available at WKU. Once admitted to a graduate degree program, students may apply for research grants to help support their research. If interested in graduate program opportunities at WKU, including admission requirements, please be sure to stop by our table. **Contact** Crissy Priddy at crissy.priddy@wku.edu
Sigma Xi, a national scientific research society of scientists and engineers, is an honor society that recognizes scientific achievement. The society is a diverse organization of members and chapters dedicated to companionship in science and engineering and to the advancement of knowledge through research, service, and teaching. Stop by the Sigma Xi table to learn more about joining and the various programs the society offers. Contact Dr. Ajay Srivastava at ajay.srivastava@wku.edu

The intellectual environment of the Honors College is designed for undergraduate students interested in a highly selective private school experience surrounded by the resources of a robust state university. The Honors in the Major program may be of particular interest to current students seeking an honors experience. Contact Eileen Ryan at eileen.ryan@wku.edu or Lindsey Westerfield at lindsey.westerfield@wku.edu

The Office of Scholar Development (OSD) supports WKU students throughout the process of finding and applying for nationally competitive scholarships, research opportunities, internships, and a variety of post-graduation opportunities. Whether you are looking for funding for a specific project or just curious about potential national and international scholarship opportunities, OSD can help. Contact Dr. Audra Jennings at osd@wku.edu

The WKU ALIVE Center for Community Partnerships and the Institute for Citizenship & Social Responsibility are seeking graduate assistants for the Hill House program. Hill House is a graduate-level community development and research program at WKU that provides the opportunity for students to live at and work from a house bordering campus on projects that address local issues. If you are considering a graduate program at WKU in the fall and have an interest in learning how you can utilize your academic coursework to create impact in the community of Bowling Green, be sure to stop by our table for more information on this unique opportunity! Contact Nadia DeLeon at 270-782-0966 and nadia.deleon@wku.edu or Terry Shoemaker at 270-745-3217 and terry.shoemaker@wku.edu

TopSCHOLAR® is a university-wide, centralized digital repository dedicated to scholarly research, creative activity, and other full-text learning resources that merit enduring and archival value, permanent and open access. WKU faculty, staff, and faculty-sponsored students are encouraged to publish in TopSCHOLAR®. The Student Research Conference will have a strong presence in TopSCHOLAR®. Go to digitalcommons.wku.edu or just “Google” TopSCHOLAR®! Contact Connie Foster at connie.foster@wku.edu
ACKNOWLEDGEMENTS

On behalf of the entire campus community, the members of the WKU Student Research Council extend appreciation and congratulations to the hundreds of students who participated in the conference. We applaud your talent, creativity, dedication, and commitment to making the most of your educational experience at WKU. Your passion for learning and academic excellence, as well as your motivation to meet and overcome challenges, not only distinguishes you from your peers, it serves as an inspiration to others. We are proud of your accomplishments, and you should be, too.

Faculty members who served as mentors to students are indicated parenthetically throughout the conference schedule and abstracts. We commend the faculty mentors for their support of student scholarly activities and for their assistance in preparing students for the conference.

WKU faculty/staff serving as conference session judges are Cathy Abell, Khaldoun Almousily, Keith Andrew, Shahnaz Aly, Ferhan Atici, Therese Baker, Gordon Baylis, Leslie Baylis, Thomas Bell, Lauren Bland, Dana Bradley, Amy Brausch, Nicole Breazeale, Bryan Carson, Krisstal Clayton, Margaret Curtis, Rajalingam Dakshinamurthy, Tucker Davis, Laura DeLancey, Patricia Desrosiers, Matthew Dettman, Carl Dick, Scott Dobler, Vladimir Dobrokhotov, Kinchel Doerner, Mark Doggett, Laura Dotson, Lisa Duffin, Amanda Ervin, Kari Everett, Xingang Fan, Shilo Felton, Ann Ferrell, Matt Foraker, James Fulkerson, Cecile Garmon, Becky Gilfillen, Erin Greunke, Margaret Gripshover, Steve Haggbloom, Lance Hahn, Jennifer Hanley, Gail Hiles, Margaret Hook, Cynthia Houston, Emmanuel Iyiegbuniwe, Trish Jaggers, Molly Kerby, Jae Kim, Rachel Kinder, Kate King, Thomas Kingery, Gail Kirby, Alison Langdon, Ingrid Lilly, Jeremy Maddox, Kelly Madole, Nancy Mager, Sara McCaslin, Laura McGee, Gordon McKerral, Rosemary Meszaros, Akihiko Michimi, Andrew Mienaltowski, Zubair Mohamed, Chris Nagy, Amy Nemon, Leslie North, Sara Northerner, Anne Onyekwuluje, Nielsen Pereira, Tina Peterson, Jason Polk, Attila Por, Hemali Rathnayake, Stephen Rey, Claire Rinehart, Tim Ritter, Ian Schnee, Karen Schneider, Richard Schugart, Bruce Schulte, David Serafini, Jonghee Shim, Michael Smith, Larry Snyder, Roxanne Spencer, Martin Stone, Dick Taylor, Michelle Trawick, Mercedes deUriarte, Carol Watwood, Adam West, Aaron Wichman, Todd Willian, Jennifer Wright, Rong Yang, and Jie Zhang. We greatly appreciate the support of the faculty/staff judges.

Funding for the 42nd Annual WKU Student Research Conference and other REACH Week activities was provided by the Office of the Provost and Vice President for Academic Affairs, the Office of Research, and the WKU Chapter of Sigma Xi.

The Office of Public Affairs developed electronic advertising and provided photography services for REACH Week events and designed the conference program cover, conference room signs, and REACH Week posters and postcards. Special thanks to Tom Meacham and Alicia Carter. The REACH Week dinner was organized by Lucinda

The conference is organized by the WKU Student Research Council. Members of the Council are Darlene Applegate, Cathy Carey, Brittany Crowley, Audra Jennings, Rodney King, Andrew Mienaltowski, Christine Nagy, Donald Nims, Farley Norman (Chair), Carnetta Skipworth, Larry Snyder, Ajay Srivastava, and Derick Strode. For more information about the Council, visit www.wku.edu/studentresearch.

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**PAPER SESSIONS I**

**Graduate Paper Session 1: Business and Interdisciplinary**

**Room:** GRH 1002  
**Judges:** Dr. Michelle Trawick (moderator) and Mr. Tim Ritter  
8:30 **Vedangi Mahashabde** Cost Management Using Lean Strategy (Dr. Mark Doggett)  
8:45 **John Stephens and Heather Nett** Kentucky Incentive Programs (Dr. William Davis)  
9:00 **Mark Wegener and Tom Morris** Substitution Effects on the Optimal Retail Assortment (Dr. Zubair Mohamed)  
9:15 **James Miller** Economic Cultures of Gales Point Manatee (Dr. Molly Kerby)  
9:30 **Damian Wirth, Brandi West, Erin Desmarais, Kathy Wilson, and Danilo Amoretty** Extended Drive-Thru Staffing (Dr. Zubair Mohamed)

**Graduate Paper Session 2: Social Sciences/Services**

**Room:** GRH 1003  
**Judges:** Dr. Lauren Bland (moderator), Mr. Stephen Rey, and Dr. Tina Peterson  
8:30 **Jocelyn Baldor, Saundra Starks, and Vella Mae Travis** Reinventing Outreach: A Service Delivery Model for Rural Mental Health Needs (Dr. Saundra Starks)  
8:45 **Ryan Cummings** Cross-Cultural Forgiveness: Explaining Decisional and Emotional Forgiveness Via Face Negotiation Theory (Ms. Sabine Chai)  
9:00 **Jessica Holmin** Aging and Weight Ratio Estimation (Dr. Farley Norman)  
9:15 **Austin Klaine and Luhan Wang** Selected Public Sector Salaries: A Comparison of the United States and China (Dr. Victoria Gordon)  
9:30 **Wesley Waddle** An Analysis of Factors Impacting K-12 Technology-Infused Lesson Design (Dr. William Schlinker)
Graduate Paper Session 3: Natural Sciences
Room: GRH 1089
Judges: Prof. Shanaz Aly (moderator) and Mr. Tucker Davis
8:30 Lakshmisri Vangala and Vivek Badwaik Differential Behaviors of Osmolytes on the Stability of All Beta-Sheet Proteins (Dr. Rajalingam Dakshinamurthy)
8:45 Gilman Ouellette and Jason Polk Paleohydrology and Climate Change in the Eastern Caribbean from Barbadian Speleothems (Dr. Jason Polk)
9:00 Sinem Karatas Ordered Compactifications (Dr. Tom Richmond)
9:15 Kamal Humagain Measuring Land Use and Land Cover Change Using Satellite Imagery in Sagarmatha National Park, Nepal (Dr. John All)
9:30 Brady Garabato and Jeremy Maddox Theoretical Pre-Design of Optically Active Rare-Earth Polyoxometalate Systems (Dr. Jeremy Maddox)
9:45 Marc Oakley Artisan and Folklife Center Main Complex (Prof. Laura Dotson)

Graduate Paper Session 4: Natural Sciences
Room: GRH 1091
Judges: Dr. Xingang Fan (moderator) and Prof. Thomas Kingery
8:30 Sumbul Khan Application of Lean Principles to Performance Measurement (Dr. Mark Doggett)
8:45 Rachel Bowles Comprehensive Analysis of Ostracode Morphology and Shell Chemistry to Better Understand Proxies for Paleosalinity (Dr. Fred Siewers)
9:00 Amanda Campbell Tracing the Evolution of Telomerase for an Ancestral Precursor to Define and Suggest Cancer Therapeutics (Dr. Chandrakanth Emani)
9:15 Sruthi Bhushan Pitla and Guangming Xing Organizational Search in Email Systems (Dr. Guangming Xing)
9:30 Nicholas Lawhon A Geospatial Statistical Correlation of Drainage Density and Surface Water Quality Impairment (Dr. Jason Polk)

Graduate Paper Session 5: Natural Sciences
Room: GRH 2002
Judges: Dr. Carl Dick (moderator) and Dr. Kari Everett
8:30 Pranav Chandra and Nilesh Sharma Effect of Coconut Oil (Cocos nucifera) on Ulcerative Colitis in a Mouse Model (Dr. Nilesh Sharma)
8:45 Nitin Kumar Pally Porous 3-D Metal Organic Framework Using Copper Ion and Bezene Tricarboxylate as Building Blocks (Dr. Bangbo Yan)
9:00 Alexander Larin, Vladimir Dobrokhotov, Landon Oakes, Dewayne Sowell, and Jessica Hall* Thermal and Optical Activation of Conductometric Sensors (Dr. Vladimir Dobrokhotov)
9:15 Vinaykumar Nadipelly Dynamic Scoping for a Browser-Based Access Control System (Dr. Guangming Xing)
9:30 Tyler Clark Continued Radicals and Cantor Sets (Dr. Tom Richmond)
Graduate Paper Session 6: Natural Sciences
Room: GRH 2003
Judges: Dr. Jeremy Maddox (moderator) and Ms. Amanda Ervin
8:30 Anvesh Reddy Phosphorous Transport and Distribution in Kentucky Soils Prepared Using Various Manure Types (Dr. Stuart Burris)
8:45 Melissa Cary Making Music Sustainable: The Case of Marketing Summer Jamband Festivals in the United States, 2010 (Dr. Margaret “Peggy” Gripshover)
9:00 Elizabeth Krantz Sharpening the Boundaries of the Sequential Probability Ratio Test (Dr. Melanie Autin)
9:15 Kelin Wang*^ and William Orndorff Greenhouse and Field Studies of Flue Gas Desulphurization Byproducts Amended Soil (Dr. Yan Cao)
9:30 Julia Freeman Single Nucleotide Polymorphisms Linked to Essential Hypertension in Kasigau, Kenya (Dr. Nancy Rice)
9:45 Linda Baizel Use of the Handheld Gamma-Ray Scintillometer for Correlation of Outcrops and Subsurface Mississippian and Pennsylvanian Rocks of Northern Warren County, Kentucky (Dr. Michael May)

Undergraduate Paper Session 1: Natural Sciences
Room: GRH 2005
Judges: Dr. Kinchel Doerner (moderator) and Ms. Amy Nemon
8:30 Victoria Gilkison*, Elizabeth Malloy, Scott Grubbs, and Jennifer Yates Stable Isotopic Analysis of the Upper Green River in Hart County, Kentucky (Dr. Albert Meier)
8:45 Joseph Wilson, Benjamin Steinhaus, Joshua Crockett, Kevin Schmaltz, Joel Lenoir, and Chris Moore Phase 3 of Design, Build and Test of a Bio-Diesel Facility (Dr. Kevin Schmaltz)
9:00 Dillon Pender*, Lakshmisri Vangala, and Vivek Badwaik Green Synthesis and Characterization of Starch Gold Nanoparticles with Bactericidal and Catalytic Activity (Dr. Rajalingam Dakshinamurthy)
9:15 Ethan Blandford Depression and the 5-HTTLPR Gene (Dr. Chandrakanth Emani)
9:30 John Wilson* and Ivan Novikov Sensitivity of Nuclear Cross Section Calculation in Glauber Theory to Parameters of Markov Chain Monte Carlo Integration (Dr. Ivan Novikov)
9:45 Jason Howard and Andrew Wulff Characterization of Copper Ore from the Ruth District, Ely, Nevada (Dr. Andrew Wulff)

Undergraduate Paper Session 2: Natural Sciences
Room: GRH 2006
Judges: Dr. Michael Smith (moderator) and Ms. Erin Greunke
8:30 Kyle Mattingly* Large, Long-Lived Convective Systems in Subtropical South America and Their Relationship with Atmospheric Teleconnections (Dr. Joshua Durkee)
8:45 Leah Frazier* and Ken Crawford Stimulation of Cell Migration in Corneal Endothelial Cells (Dr. Ken Crawford)
9:00 William Bickett^, Benjamin Rice^, and Phillip Womble Measurement of Doppler Shift in Oxygen-16 (Dr. Phillip Womble)
9:15 John Crandall and Andrew Wulff Mineral Assemblage Characterization of Ores from the Quartz Hill Molybdenum Deposit, Alaska (Dr. Andrew Wulff)
9:30 Clarice Esch* A Potential Solution to the Nitrogen Dilemma in Modern Agriculture (Dr. Martin Stone)
9:45 Lindsay Williams* and Nancy Rice The Prevalence of Essential Hypertension in Kasigau, Kenya (Dr. Nancy Rice)

Undergraduate Paper Session 3: Humanities
Room: GRH 2008
Judges: Dr. Ingrid Lilly (moderator), Ms. Gail Hiles, and Dr. Larry Snyder
8:30 Joseph Hildesheim Understanding the Prosthetics of Humanity (Prof. David Marquez)
8:45 Kyle Young* Benjamin, Surrealism, and Translation: The Revolutionary Potential of Language (Dr. Adrian Switzer)
9:00 Lindsey Mattingly Lawyers, Jews, and Queers, Oh My: Exile in Tony Kushner's Fantasia (Dr. Nikolai Endres)
9:15 Mark Reeves* The Rally of French Equatorial Africa to Charles De Gaulle, August 1940 (Dr. Eric Reed)
9:30 Ashley Coulter* Pale in Comparison: Dissent within Alice Walker's In Search of Our Mothers’ Gardens (Dr. Sandra Hughes)

Undergraduate Paper Session 4: Humanities
Room: GRH 2009
Judges: Dr. Cecile Garmon (moderator) and Prof. Rosemary Meszaros
8:30 Stefan Meadows Naturally Artificial: The Art of Kubrick's Artifice in Full Metal Jacket (Dr. Karen Schneider)
8:45 Katherine Ferriell* Kara Walker’s Silhouettes: Exposing the Violence of Racial and Sexual Subjugation (Dr. Ingrid Cartwright)
9:00 Allison Parks* Burnout and Compassion Fatigue in the Nursing Workforce (Dr. Kelly Reames)
9:15 Erin Kenney Rawls, Geuss, and Normative Philosophy (Dr. Michael Seidler)
9:30 Cody Nimmo Change: Altering How We Perceive an Environment through Sculpture (Prof. David Marquez)
9:45 Audrey Gearhart* Daisy Miller and the Problem of Marxist Literary Interpretation (Dr. Kelly Reames)

Undergraduate Paper Session 5: Social Sciences/Services
Room: GRH 2010
Judges: Dr. Lisa Duffin (moderator), Dr. Patricia Desrosiers, and Ms. Nielsen Pereira
8:30 Eileen Forsythe* A Comparative Analysis of Judicial Selection Methods in Tennessee and Kentucky: Appointed vs. Elected (Dr. Brian Strow)
8:45 Brittany Cheak One Size Fits All: Media Portrayal of Women and the Movement for Change (Dr. Kate Hudepohl)
9:00  **Kaitlin Vonderschmitt*** The Growing Use of Social Media in Political Campaigns: How to Use Facebook, Twitter, and Youtube to Create an Effective Social Media Political Campaign (Dr. Joel Turner)

9:15  **John “Jack” LeSieur, Kelly Lafferty, and Darlene Applegate** Cultural Resources at Kyrock, Kentucky: An Initial Assessment (Dr. Darlene Applegate)

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**Undergraduate Video/Performance Session 1: Humanities**

**Room:**  GRH 2064  
**Judges:**  Prof. Dick Taylor (moderator), Ms. Sara McCaslin, and Ms. Trish Jaggers

8:30  **Roshunda Brown** Ascendancy (Prof. Clifton Brown)

8:45  **Mitchell Haley** React (Prof. Clifton Brown)

9:00  **Kyle MacDonald*** Olympia, a Musical Composition for Wind Ensemble (Dr. Michael Kallstrom)

9:15  **Tiffany Guy*** The Takeover (Prof. Amanda Clark)

9:30  **Kylene Stephens, Roshunda Brown, Heather Chenault, Carrie Farmer, Fiona Mowbray***, **Jade Primicias***, and **Karsyn Rohach** Tell Me About Yourself (Prof. Lisa Draskovich-Long)

9:45  **Jessica Williams*** Rhythm of My Sole (Prof. Amanda Clark)

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**Undergraduate Paper Session 6: Natural Sciences**

**Room:**  GRH 3005  
**Judges:**  Drs. Claire Rinehart (moderator) and Sara Northerner

8:30  **Hannah Pennington**, **Richard Schugart, and Canaan Coppola** Quantifying Parameters for a Mathematical Model on the Interaction of Matrix Metalloproteinases and Their Inhibitors in a Wound (Dr. Richard Schugart)

8:45  **Suzanna Sadler*** and **Louis Strolger** The Ages and Metallicities of Type Ia Supernova Host Galaxies from the Nearby Galaxies Supernova Search Program (Dr. Louis Strolger)

9:00  **Michael Hunter** Can the Health Risks of Genetically Modified Corn Be Reversed? (Dr. Chandrakanth Emani)

9:15  **Preston Dallas and Xingang Fan** Characteristics of Karst Areas on Precipitation Amounts (Dr. Xingang Fan)

9:30  **Brenna Tinsley**, **Scott Grubbs, and Albert Meier** The Ecological Roles of *Podostemum ceratophyllum* and Cladophora in the Habitat and Dietary Preferences of the Riverine Caddisfly *Hydropsyche simulans* (Dr. Scott Grubbs)

9:45  **Arrington, Elizabeth** Integrating Folk Concepts into Modern Architectural Form (Prof. Laura Dotson)
PAPER SESSIONS II

Graduate Paper Session 7: Natural Sciences
Room: GRH 1002
Judges: Drs. Thomas Bell (moderator) and Hemali Rathnayake
10:15 Andrea Toll, Hillary Asberry*, and Darwin Dahl Racemization of Amino Acids in Teeth for the Determination of Age (Dr. Darwin Dahl)
10:30 Luke Miles Statistical Analysis to Determine Advanced Spaceborne Thermal Emission and Reflection Radiometer and Shuttle Radar Topography Mission Accuracy (Dr. John All)
10:45 Sri Harsha Vege Ensemble of Multiple Feature Selection Techniques (Dr. Huanjing Wang)
11:00 Jeremy London Preliminary Characterization of Hydrocarbon Development in Paleovalleys of the Mississippian-Pennsylvanian Unconformity in the Illinois Basin (Dr. Michael May)
11:15 Nihan Acar A New Approach to Data Fitting in Time Dependent Cancer Therapeutic Study (Dr. Ferhan Atici)
11:30 Ramya Kolli Effect of Leaving Ligands of Platinum Complexes on Guanine Residue of DNA and Methionine Protein Residue (Dr. Kevin Williams)

Graduate Paper Session 8: Natural Sciences
Room: GRH 1003
Judges: Drs. Margaret "Peggy" Gripshover (moderator) and Bruce Schulte
10:15 Gopinath Rajadinakaran, Huifang Sun, Eric Rouchka, Claire Rinehart, and Michael Smith Cell Proliferation and Apoptotic Pathways Regulated in Zebrafish Auditory Hair Cell Regeneration Using Next Generation Sequencing (Dr. Michael Smith)
10:30 Sarah Arpin Hydrogeology of the Haney Limestone, South-Central Kentucky (Dr. Chris Groves)
10:45 Jason Young and Chad Snyder Synthesis, Characterization, and Structure of Some Group VII Organometallics (Dr. Chad Snyder)
11:00 Sunny Potay Secret Sharing Scheme on Visual Cryptography (Dr. Mustafa Atici)
11:15 Andrew Reeder Development of a Base GIS Package for Reconnaissance and Site Selection in the Illinois Basin: Focusing on the Basal Pennsylvanian Unconformity in Parts of Kentucky (Dr. Michael May)
11:30 Eric Vanover, Yan Huang, Chris Abebrese, Helen Thompson, Cathleen Webb, and Rui Zhang Photochemical Production of Trans-dioxoruthenium(vi) Porphyrin Complexes (Dr. Rui Zhang)
Graduate Paper Session 9: Humanities
Room: GRH 1089
Judges: Prof. Gordon McKerral (moderator), Ms. Nancy Mager, and Mr. David Serafini
10:15 Kathy Douglas Satire or Commentary: A Look at *Of All Creatures Women Be Best* (Dr. Alison Langdon)
10:30 Rachel Hopkin The Bottle Artist (Dr. Tim Evans)
10:45 Kevin Dorth Gallipoli and Kut-al-amara: A Comparative Analysis (Dr. Juan Romero)
11:00 Addison James The Effectiveness of Using the Kentucky Department of Education English Transitional Course Curriculum Framework to Improve ACT English Scores with College and Career Readiness Standards (Dr. Angela Jones)
11:15 Sarah McCartt-Jackson The Invasion of the Scarecrows and Community Aesthetic Perspectives (Dr. Tim Evans)

Graduate Paper Session 10: Natural Sciences
Room: GRH 1091
Judges: Drs. Rajalingam Dakshinamurthy (moderator) and Rong Yang
10:15 Soujanya Siddavaram Ananta and Qi Li A Comparative Study of Contour Extraction of *Drosophila* Embryos (Prof. Qi Li)
10:30 Yaowen Cui The Preparation of Copper-Based Oxygen Carriers Supported by Titanium Dioxide (Dr. Yan Cao)
10:45 Mitchell Gaines, Ronnie Leeper, and Rezaul Mahmood WRF Modeling of the January 29th and 30th 2008 Ohio Valley Squall Line (Dr. Rezaul Mahmood)
11:00 Junyi Wang Normal-Truncated Skewed Laplace Model in Stochastic Frontier Analysis (Prof. Ngoc Nguyen)
11:15 Aldious Waite The Possible Environmental Impact of Nanotechnology (Dr. Mark Doggett)

Graduate Paper Session 11: Humanities
Room: GRH 2002
Judges: Mr. Adam West (moderator) and Dr. Kahldoun Almousily
10:15 Amber Slaven Anime: Alteration and Invention to the Tale Tradition (Dr. Tim Evans)
10:30 Jennifer Smith America's Dark Shame: Japanese Interment During World War II (Dr. Jennifer Hanley)
10:45 Gongbo Liang and Yang Liu Chinese Architecture and Fortune Teller (Ms. Eileen Starr)
11:00 Rebecca Wilson Miracle on Any Street (Dr. Ann Ferrell)
11:15 Katrina Wynn The Art of Cake Decorating: An Examination of the Art of Callie Christian (Dr. Tim Evans)

Undergraduate Paper Session 7: Natural Sciences
Room: GRH 2003
Judges: Dr. Martin Stone (moderator) and Mr. Shilo Felton
10:15 Benjamin Rice, William Bickett, and Phillip Womble Doppler Shift Measurement System (Dr. Phillip Womble)
10:30 Zach Martin Improving the Kentucky Mesonet Station (Dr. Mark Cambron)
10:45 Noelle Spooner* Using Western Blot Analysis to Determine If Cryptochrome Expression Is Reduced in Various RNAi Strains of *Chlamydomonas reinhardtii* (Dr. Sigrid Jacobshagen)
11:00 Brian Urbancic and Austin Boys* Evidence of Change in the Intensity of Wet and Dry Spells Impacting Kentucky (Dr. Stuart Foster)
11:15 Rebecca Crouch* *Chutes and Ladders* with Markov Chains (Dr. Melanie Autin)
11:30 Eva Gray-Jennings and Keith Philips Dung Beetle Diversity of the Nimba Mountain Range, Guinea, West Africa: An Indicator Group for Ecosystem Health (Dr. Keith Philips)

**Undergraduate Paper Session 8: Natural Sciences**

**Room:** GRH 2005

**Judges:** Prof. Matthew Dettman (moderator) and Ms. Margaret Hook

10:15 Robert Powell and Ross Hoffman Redesign of the Bowling Green City Hall Annex (Prof. Shahnaz Aly)
10:30 Candice Durbin TPH Increase Led to Decrease in Aggression among Inmates (Dr. Chandrakant Emani)
10:45 George Carlton and Brittany Wells* Portable Electrical Car Charger (Dr. Stacy Wilson)
11:00 Shelby Rader*, Yan-Fen Li, and Aaron Celestian Ion Selectivity Studies on Umbite (Dr. Aaron Celestian)
11:15 Rebecca Brown^ Brightness Measurements of Two Seyfert Galaxies with the Robotically Controlled Telescope for STARE (Dr. Michael Carini)
11:30 Randy Fulling, Ivan Navarro, Jeff Hawkins, and John Bowie* Designing a Remotely Controlled Robotic Platform (Dr. Stacy Wilson)

**Undergraduate Paper Session 9: Humanities**

**Room:** GRH 2006

**Judges:** Dr. Molly Kerby (moderator), Prof. Bryan Carson, and Dr. Laura McGee

10:15 Ryan Hunton Aristotle’s Soul in Plants and in Contemporary Science (Dr. Audrey Anton)
10:30 Katie Knecht* *The Exchange: A Novella* (Dr. David LeNoir)
10:45 Craig Lonas Going “Nutsssssss” on Twitter: Creating Fables in 140 Characters (Dr. Tim Evans)
11:00 Anne Walsh* Call *Me* Ishmael? The Subject of Jackson Pollock’s Portrait of H.M. (Dr. Guy Jordan)
11:15 Kaylee Lambert The Salem Hysteria: Then and Now (Dr. Mary Ellen Miller)
11:30 William Inman Distant Connections: The Paradoxical Effects of CMC on Interpersonal Communication (Ms. Kimberly Reynolds)

**Undergraduate Paper Session 10: Humanities**

**Room:** GRH 2008

**Judges:** Dr. Ian Schnee (moderator) and Ms. Jennifer Wright

10:15 Joseph Southworth Tang Dynasty *Panwan*: Correlation of Intellectual and Law (Dr. Paul Fischer)
10:30 Ashli Alford A Savage Journey into the Life of Hunter S. Thompson (Dr. Ted Hovet)
10:45 **Nathan Bishop** Willis v. Walker: Good Faith Alone Is Not the Test (Dr. Patricia Minter)

11:00 **Shawna Felkins** Dualistic Views: Ambiguity in Nathaniel Hawthorne's Short Stories (Dr. Sandra Hughes)

11:15 **Heidi Smith** Minarets: A Changing Islamic Mystery (Dr. Ingrid Cartwright)

**Undergraduate Paper Session 11: Humanities**

**Room:** GRH 2009

**Judges:** Drs. Karen Schneider (moderator) and Anne Onyekwuluje

10:15 **Robert Preston** The Utility of Followership (Dr. Kelly Reames)

10:30 **Jacob Fackler** You Can't Kill the Boogeyman (Dr. Anthony Harkins)

10:45 **Matthew Whitman** A Change in Competition: Assessing the NFA-LD Community and Its Views on Topical Counterplans (Mr. Christopher Joffrion)

11:00 **Taylor Sang** Crusader for Transparency (Dr. Sandra Hughes)

11:15 **Amber Stack** Amulets: A Must-Have for Every Ancient Egyptian (Dr. Ingrid Cartwright)

**Undergraduate Paper Session 12: Interdisciplinary**

**Room:** GRH 2010

**Judges:** Drs. Akihiko Michimi (moderator) and Steve Haggbloom

10:15 **Ryann McGuyer** Interdisciplinary Studies: How Can Different Methods/Techniques Help Exceptional Learners Learn More Efficiently? (Dr. Sara Northerner)

10:30 **Joseph Guinto** Asthma: A Breathtaking Ailment (Dr. Chandrakanth Emani)

10:45 **Billy Seng and Mark Cambron** Sensor Development (Dr. Mark Cambron)

11:00 **Armando Sanchez** Truth and Photography (Dr. Sara Northerner)

11:15 **Samuel Dong** Development of a Cell Phone Forensics Tool (Dr. Phillip Womble)

11:30 **Darren Tinker** and **Stacy Wilson** SCADA Security: A Growing Threat (Dr. Stacy Wilson)

**Undergraduate Paper Session 13: Social Sciences/Services**

**Room:** GRH 3005

**Judges:** Drs. Aaron Wichman (moderator) and Gail Kirby

10:15 **Brittany Morris** Superstitious Fan Behavior (Dr. Rick Grieve)

10:30 **Austin Warren** and **Darlene Applegate** Prehistoric Hilltop Enclosures in Kentucky (Dr. Darlene Applegate)

10:45 **Courtney Krebs** Commemorating the “Forgotten” Lebanese Civil War: The Motivations of Filmmakers When Determining the Question of Responsibility (Dr. Soleiman Kiasatpour)

11:00 **Shelby Overstreet**, **Amanda Cook**, and **Martha Day** STEM Career Switchers: Why Education? (Dr. Lisa Duffin)

11:15 **Calvin Logsdon** Digital Ouija Boards: A Sociological Survey of Social Networking and Bereavement (Dr. Stephen Groce)
Undergraduate Paper Session 14: Natural Sciences
Room: GRH 2009
Judges: Drs. Mark Doggett (moderator) and Mercedes deUriarte
1:45 Jason Ludden* Utilizing the Method of Lines to Numerically Solve Partial Differential Equations (Dr. Richard Schugart)
2:00 Benjamin Blankenship, Michael Goatley, and Christopher Byrne Friction Testing on Touch-Screen Samples (Dr. Christopher Byrne)
2:15 Steven Calhoun, Yan-Fen Li, and Bangbo Yan Synthesis, Structure, and Characterization of Two Polyoxometalate-Photosensitizer Hybrid Materials (Dr. Bangbo Yan)
2:30 Joseph Early Homeoprotein NANOG (Dr. Chandrakanth Emani)
2:45 Aaron Bell* and Steven Gibson Dust Infrared Emission in an H2-Forming, Perseus-Arm Cloud (Dr. Steven Gibson)
3:00 Frank Weatherford, Robert Choate, and Kevin Schmaltz A Centrifugal Pump Project: An Extracurricular Student Project (Prof. Robert Choate)
3:15 Stuart Kenderes* and Andrew Wulff A Mineralogical, Textural, and Chemical Characterization of an Intrusion at White Mountain, Sunlight Basin, Wyoming (Dr. Andrew Wulff)

Undergraduate Paper Session 15: Natural Sciences
Room: GRH 2010
Judges: Drs. Todd Willian (moderator) and Cynthia Houston
1:45 Michael Horn Characterizing the OPN1MW Gene Responsible for Red/Green Colorblindness (Dr. Chandrakanth Emani)
2:00 Hussain Altammar, Joel Lenoir, and Kevin Schmaltz Redesign of an Airflow Test Bench: An Independent Student Project (Prof. Robert Choate)
2:30 John Bowie* Analysis of Nonlinear Differential Equations in Autoimmune Disease (Dr. Richard Schugart)
2:45 Henry Uradu^ and Keith Phillips The Winter-Active Dung Beetle Fauna of a Costa Rican Cloud Forest (Dr. Keith Phillips)
3:00 James Berry, Stephen Claycomb, Jason Hall, and Adnan Alsadeh Aluminum Shearing with a Circular Blade (Dr. Kevin Schmaltz)
3:15 Ian Blaylock* Continentiality and the Frost-Free Season (Dr. Stuart Foster)
Graduate Poster Session 1: Natural Sciences
Room: GRH 1002
Judges: Drs. Becky Gilfillen (moderator) and Emmanuel Iyigbuniwe

G01 Begum Fouzia and Aaron Celestian Heavy Metal Sequestration Using Gismon-dine (Dr. Aaron Celestian)

G02 Amanda Seaton and Rodney King Defining the Essential Components of Bacteriophage HK639 Early Gene Expression (Dr. Rodney King)

G03 Yan-fen Li, Christopher Carmichael, Steven Calhoun, Nicholas Cottrell*, and Bangbo Yan A New Metal Organic Framework Containing Ruthenium Poly-pyridyl Complex (Dr. Bangbo Yan)

G04 Kellee McMillin, Todd Willian, Karamat Sistani, and Nathan Howell Influence of Broiler Litter on Yield and Chemistry of Two French Hybrid Grape Varietals (Dr. Todd Willian)

G05 Swathi Nandala Bulk Effects of Cisplatin Analogs on DNA Bases (Dr. Kevin Williams)

G06 Dan Sandor Cultivar, Mowing Height, and Herbicide Effects on Bermudagrass (Cynodon dactylon) Suppression in Tall Fescue (Schedonorus phoenix) (Dr. Paul Woosley)

Graduate Poster Session 2: Natural Sciences
Room: GRH 1002
Judges: Drs. Keith Andrew (moderator) and Amy Brausch

G07 Sindhu Tumati, Swarnalatha Somasani, and Keerthy Mandadi Reduction of Heavy Metals from Drinking Water by Adsorption from Limestone with a Focus on Zinc, Copper, and Lead (Dr. Cathleen Webb)

G08 Jonathan Oglesby, Leslie North, Jason Polk, and Chris Groves Using Info-graphics to Promote Public Awareness of the Water Cycle and the Worldwide Water Crisis (Dr. Jason Polk)

G09 Raj Kishore Vakiti, Begum Fouzia, Yan Cao, Wei-Ping Pan, and Bangbo Yan Calcium and Rubidium Based Metal Organic Frameworks (Dr. Bangbo Yan)

G10 William Penick, Todd Willian, Becky Gilfillen, and Cris Scudder Transplanter Modification and the Determination of Functionality in No-Till Dark Tobacco Production Environments (Dr. Todd Willian)

G11 Sana Shah, Jason Young, and Chad Snyder Group VII Pyridazine Complexes: Synthesis, Structure, and Characterization (Dr. Chad Snyder)

G12 Shawn Smiley, Jitesh Tiwari, Kinchel Doerner, and Claire Rinehart Genome Assembly and Syntenic Analysis of Clostridium scatologenes (Dr. Kinchel Doerner)
Graduate Poster Session 3: Social Sciences/Services
Room: GRH 1003
Judges: Drs. Christine Nagy (moderator) and Nicole Breazeale
G13 Jennifer Scott The Relationship between Rater Agreement, Behavioral Observability, and Overall Impressions (Dr. Anthony Paquin)
G14 Erika Dawkins, Venkata Damera, Gregory Ellis-Griffith, Tina Peterson, Akihiko Michimi, and Daniel Carter Institute of Rural Health Development and Research: Community-Based Dental Care Delivery through Mobile Units in South-Central Kentucky (Dr. Akihiko Michimi)
G15 Adam Sondag and Steven Wininger A Quantitative Review of Self-Determination Theory Subtypes in Exercise Adherence (Dr. Steven Wininger)
G16 Natalie Walker, Janice Smith, Joseph Etienne, Lauren Bland, and Richard Dressler Public Knowledge of Autism (Ms. Janice Smith)
G17 Lauren Weathers Attention, Support, and Face-to-Face Self-Disclosure as Predictors of Self-Disclosure on Facebook (Dr. Pitt Derryberry)
G18 Opuruiche Ibekwe and William Mkanta Predictors of Hospitalizations among Women Seeking Substance Abuse Treatment in Kentucky (Dr. William Mkanta)
G19 Teresa Bricker Cost Effectiveness of Interferon Gamma Release Assays vs. TST in Healthcare Workers (Dr. Beverly Siegrist)

Graduate Poster Session 4: Social Sciences/Services
Room: GRH 1003
Judges: Prof. Roxanne Spencer (moderator), Mrs. Jae Kim, and Prof. Carol Watwood
G20 Ikechukwu Ibekwe and Emmanuel Iyiegbuniwe Noise Exposure Assessment of WKU Police Officers during Rifle and Shotgun Qualifications at an Outdoor Firing Range (Dr. Emmanuel Iyiegbuniwe)
G21 Eric Raap, Allison Steen, and Qin Zhao Standard Anchoring: Thoughtful or Non-Thoughtful? (Dr. Qin Zhao)
G22 Kaushal Shah, Alka Bhattacharai, and Christine Nagy Using Communication Techniques to Promote the Diabetes Self-Management Program in Bowling Green, Kentucky (Dr. Christine Nagy)
G23 Carrie Guggenmos Teleological Reasoning in Adults: Believing in the Purpose of Events (Dr. Kelly Madole)
G24 Venkata Damera, Erika Dawkins, Gregory Ellis-Griffith, Tina Peterson, and Akihiko Michimi Institute of Rural Health Development and Research: Community-Based Healthcare Delivery through Mobile Units in South-Central Kentucky (Dr. Akihiko Michimi)
G25 Josh Moncrief Thinking of Home and the Effects of Willpower (Dr. Aaron Wichman)

Undergraduate Poster Session 1: Business and Interdisciplinary
Room: GRH 1089
Judges: Dr. Zubair Mohamed (moderator) and Mr. James Fulkerson
U01 Jarrod Connally* Managerial Turnover in the English Premiership and the Subsequent Results (Dr. Dennis Wilson)
U02 Sarah Sheldon* and Daniel Burton Collegiality in the Workplace (Dr. Robert Hatfield)
Leo Buser* Palliative Commitments (Dr. David LeNoir)
Stephanie Hagan* and Spencer Wright* Research Degrees of Separation (Dr. Cathleen Webb)

Undergraduate Poster Session 2: Humanities
Room: GRH 1089
Judges: Dr. Alison Langdon (moderator) and Ms. Margaret Curtis
U05 Alan Schneller Mylar Artists (Prof. Matthew Tullis)
U06 Joseph Hearne Evolution of Identity Design (Prof. Matthew Tullis)
U07 Conor Lewis Pushing Past Formalism (Prof. Kristina Arnold)
U08 Stephen Gray Modern Video Game Designers (Prof. Matthew Tullis)
U09 Ann-Alan Callahan and Paige Roberts Beading 'til They're Cured (Ms. Sheila Flener)
U10 Cheri Turner Fantasy Illustrators (Prof. Matthew Tullis)
U11 Wendell Weathers II Influential Tattoo Artist (Prof. Matthew Tullis)

Undergraduate Poster Session 3: Humanities
Room: GRH 1091
Judges: Dr. Jennifer Hanley (moderator) and Prof. Therese Baker
U12 Rose Kohman* Ascemic Artists: A Journey through the Unknown (Prof. Matthew Tullis)
U13 Matt Love Intellectual Color: Three Artists Exploring Color as a Primary Method of Expressing Perception and Subjectivity (Prof. Matthew Tullis)
U14 Lindzey Roberts Jewelry Designers (Prof. Matthew Tullis)
U15 Jesse Hazel Humbling (Prof. Laurin Notheisen)
U16 Kelly Smith* Contemporary Middle Eastern Art and Design: An Exploration of Cultural Identity (Prof. Matthew Tullis)
U17 Andrew Roeder The Design of the Graphic Novel (Prof. Matthew Tullis)

Undergraduate Poster Session 4: Humanities
Room: GRH 1091
Judges: Drs. Dana Bradley (moderator) and Ann Ferrell
U18 Stephen Bean Boardsport Art Scenes (Prof. Matthew Tullis)
U19 David Heffner Great Expressionists of the 19th and 20th Centuries (Prof. Matthew Tullis)
U20 Danielle DePorter Sephora (Ms. Kristina Goff)
U21 Noah Warren Line Work across Different Mediums (Prof. Matthew Tullis)
U22 Wesley Miller* Secular Nativity in Print – Exploring Origin (Prof. Laurin Notheisen)
U23 Hannah Willhoite Editors of Vogue: 1960's to Present (Prof. Matthew Tullis)
U24 Ashley Wirfel* Influential Designers of the Wedding Industry (Prof. Matthew Tullis)

Undergraduate Poster Session 5: Natural Sciences
Room: GRH 2002
Judges: Drs. Leslie Baylis (moderator) and Vladimir Dobrokhotov
U25 Leslie Wilson^ and Hemali Rathnayake Reactive Group Functionalized Silsesquioxane Nanoparticles for Drug Delivery Applications: Synthesis, Characterization and Particle Morphology (Dr. Hemali Rathnayake)
U26 Loyd Britt Breeding a More Cold-Tolerant Ornamental (Dr. Martin Stone)
U27 Samantha Hawtrey*^ and Ajay Srivastava Identification of Genetic Suppressors of a Scalloped Wing Mutation (Dr. Ajay Srivastava)
U28 Helen Thompson, Chad Willis*, Lakshmisri Vangala, Dillon Pender*, and Vivek Badwaik Synthesis, Characterization and Anti-Bacterial Activity of Ï²-lactam Antibiotic Capped Gold Nanoparticles (Dr. Rajalingam Dakshinamurthy)
U29 Akhil Ghanta^, Shane Masuda^, Duncan Wood^, and John Wilson* Dynamical Field Equations That Couple a Morris-Thorne Wormhole to an Expanding Cosmology (Dr. Keith Andrew)
U30 Meaghan Dunn^ and Rodney King The Discovery of AngeDeLaMorte, a Novel Mycobacteriophage (Dr. Rodney King)

Undergraduate Poster Session 6: Natural Sciences
Room: GRH 2002
Judges: Dr. Jason Polk (moderator) and Ms. Laura DeLancey
U31 Elizabeth Gatten^ and Rodney King Isolation and Characterization of Bacteriophage Magnolia (Dr. Rodney King)
U32 Melinda Rucks and Aaron Celestian The Characterization of Asbestos-Form Minerals in Thin Sections (Dr. Aaron Celestian)
U33 Monica Zachariah and Justin Wellum* Six Degrees to Kevin Bacon: Nobel Laureate Winners (Dr. Cathleen Webb)
U34 Layne Webb^ and Lydia Brothers^ Elemental Analysis of Meteorites and Other Miscellaneous Materials Using the Large Chamber Scanning Electron Microscope at Western Kentucky University’s NOVA Center (Dr. Edward Kintzel)
U35 Matthew Gonzalez^, Lakshmisri Vangala, Dillon Pender*, and Chad Willis* Synthesis of Psychiatric Drug-Capped Gold Nanowires (Dr. Rajalingam Dakshinamurthy)
U36 Eric Stamper* Host Specificity of Ecuadorian Bat Flies (Diptera: Streblidae) (Dr. Carl Dick)

Undergraduate Poster Session 7: Natural Sciences
Room: GRH 2003
Judges: Prof. Leslie North (moderator) and Dr. Jonghee Shim
U37 Meredith Doughty^, Rodney King, and Claire Rinehart Isolation and Characterization of the Mycobacteriophage Ambition (Dr. Rodney King)
U38 Cynthia Tope* and Kevin Williams Reactions of the Amino Acid Cysteine with Analogs of the Anticancer Drug Cisplatin (Dr. Kevin Williams)
U39 Jeremy Wilson and Joseph Islas Radon Migration and Intensity as a Function of Fault Proximity in the Region of Warren County Kentucky (Mr. Joseph Islas)
U40 Charlotte Humes^ Electronic Structure Calculations in the Presence of a Field (Dr. Matthew Nee)
U41 Chelsea Zingg and Chandrakanth Emani Assessing the Role of Moringa oleifera as a Neutraceutical through Biotechnological Applications (Dr. Chandrakanth Emani)
Undergraduate Poster Session 8: Natural Sciences
Room: GRH 2003
Judges: Dr. Attila Por (moderator) and Prof. Laura Dotson

U42 Lydia Brothers^ Standard Star Calibration of Supernova 2011fe at Varying Airmasses (Dr. Louis Strolger)

U43 Lori Lovell^ and Ouida Meier Land Use and *E. Coli* / Fecal Coliform Violations in the Upper Green Watershed (Dr. Ouida Meier)

Undergraduate Poster Session 9: Natural Sciences
Room: GRH 2005
Judges: Drs. Ferhan Atici (moderator), Gordon Baylis, and Scott Dobler

U51 Andrea Eastes^ and Erin Walch^ Nitric Oxide Synthase 3 Gene Regulation in Pulmonary Myofibroblasts (Dr. Nancy Rice)

U52 Alexandra Sunnenberg^, Rodney King, and Claire Rinehart The Isolation and Purification of the Bacteriophage Intrinity (Dr. Rodney King)

U53 Buddy Price and Stuart Kenderes* A Petrographic Analysis of a Transgressive Limestone (Dr. Michael May)

U54 Romney Meek, Alexander Barzilov, and Ivan Novikov Modeling of the Xenon Gamma Ray Scintillation Detector (Dr. Alexander Barzilov)

U55 Lindsey Burke^, Rodney King, and Claire Rinehart Isolation and Characterization of Bacteriophage Lacuna (Dr. Rodney King)

U56 Paul Fleischmann^, Clarice Esch*, and Jon Bailey^ Investigation of Gunnera-Nostoc Symbiosis in Costa
Undergraduate Poster Session 10: Natural Sciences
Room:  GRH 2005
Judges:  Drs. Richard Schugart (moderator) and Matthew Foraker
U57  Jessica Hall*, Vladimir Dobrokhotov, Landon Oakes, Dewayne Sowell, and Alexander Larin  Nanotechnology Solutions for Asymmetric Explosive Threat Prevention (Dr. Vladimir Dobrokhotov)
U58  Zhibo Yuan*, Chris Abebrese, Yan Huang, Alice Pan, and Rui Zhang  Kinetic Studies of Oxygen Atom Transfer Reaction from Trans-dioxoruthenium(VI) Porphyrins to Sulfides (Dr. Rui Zhang)
U59  Charles Coomer* and Rodney King  Bacteriophage Classification Via PCR Analysis: An Alternative to Complete Genome Sequencing (Dr. Rodney King)
U60  Cassandra Hornback and Aaron Celestian  Ion Exchange in the Nanoporous Mineral Gaidonnayite (Dr. Aaron Celestian)
U61  Keyana Boka* and Steve Huskey  What’s That Hooting Sound? A Survey of the Gross Anatomy of a Novel Sound-Producing Mechanism in Chameleons (Dr. Steve Huskey)
U62  Chris Carmichael, Yan-Fen Li, and Bangbo Yan  Synthesis and Structure of a Novel Layered Metalloporphyrin Coordination Polymer (Dr. Bangbo Yan)
U63  Nathan Barzee  Lumber Rack (Dr. Joel Lenoir)

Undergraduate Poster Session 11: Social Sciences/Services
Room:  GRH 2006
Judges:  Dr. Lance Hahn (moderator) and Ms. Krisstal Clayton
U64  Tessa Seidler  A Test of Different Breastfeeding Promotional Messages (Dr. Aaron Wichman)
U65  Tabitha Binder, Bryna Price, Elizabeth Furrow, Monica Akello, Jerri McMillan, Shelby McElwain, and Brandi Binyon  How Gender Plays a Role in Attempts to Improve Physical Attractiveness (Dr. Gary Villereal)
U66  Joseph Eskridge  Pictograms and Petroglyphs: Documentation and Interpretation of a Rock Art Site in Edmonson County, Kentucky (Dr. Darlene Applegate)
U67  Crystal Boyle, Sheila Flener, and Ashton Korfhage  Uplifted (Ms. Sheila Flener)
U68  Brittany Crowley, Adrian Gregory^, and Steven Wininger  Examination of Self-Regulation Constructs as Explanatory Variables for Attendance and Performance (Dr. Steven Wininger)
U69  Lauren Edison, Caitlin Murphy, Emily Funk, Katie Hardiman, Taryn O'Shea, and Amanda White  Sleep and GPA (Dr. Gary Villereal)

Undergraduate Poster Session 12: Social Sciences/Services
Room:  GRH 2006
Judges:  Drs. Kelly Madole (moderator) and Jie Zhang
U70  Cortney Scott and Thomas Kingery  Student Influences to Become an Agriculture Major at Western Kentucky University (Prof. Thomas Kingery)
Robin Beatty, Donna McHenry, Tiffany Donahue, and Dusti Simmons
Traditional and Non-Traditional Students and GPA (Dr. Gary Villereal)

Adrian Gregory*, Brittany Crowley, and Steven Wininger Evaluation of an
Intervention to Improve Self-Regulated Learning in Pre-Service Teachers (Dr. Steven Wininger)

Cecelia Nugent Serving Abroad: A Humbling Experience in Tanzania (Dr. William Mkanta)

Amy Evans, Sondra Swihart, Megan Houtchen, and Sue Lindsey Smoking
Public vs. Private (Dr. Gary Villereal)

Ashley Combs Ulundi Agricultural Coalition (Ms. Kristina Goff)

Undergraduate Poster Session 13: Social Sciences/Services
Room: GRH 2008
Judges: Drs. Cathy Abell (moderator) and Rachel Kinder

Hanna Preslar, Brandi Woods, Lauren Ashby, and Amber Young GPA and
Employment Status (Dr. Gary Villereal)

Kristin Wallace Sephora: Men: A Pop-up Marketing Concept (Ms. Kristina Goff)

Karli Rutherford Exonerations from the Death House: The Struggle Is Just
Beginning (Dr. Kate King)

Jennifer Thomas* Influence of European Union Policy on Capital Punishment in
the United States (Dr. Roger Murphy)

Natalie West* and Duncan Wood^ Contextual Influences on Word Recognition
(Dr. Lance Hahn)

Jennifer Alsman, Crystal Glover, Teresa Mills, and Erica Meade Correlation
Between Reading Textbooks and Having a Higher GPA (Dr. Gary Villereal)

Undergraduate Poster Session 14: Social Sciences/Services
Room: GRH 2008
Judges: Drs. Kate King (moderator) and Andrew Mienaltowski

Laura Hedges* Bakery to Mixed Use: Restoring Historic Structures to Today's
Standards (Ms. Sheila Flener)

Jennifer Johnson, James Hawn, and Norresha Taylor Drinking and Driving
(Dr. Gary Villereal)

Caitlin Reyes Hispanic Outreach in Bowling Green, Kentucky: Defining the
Needs of the Hispanic Community (Dr. Sonia Lenk)

Brette Wimpee, Mattie Rich, Lauren Herrington, and Tatiana Sahanic
Commuter vs. Resident GPA (Dr. Gary Villereal)

Basil Back and Carrie Guggenmos Social Identity Moderates Social
Dominance Orientation (SDO) Effects: Women’s Gender Identity and the
Relationship between Group Status, SDO, and Self-Esteem (Dr. Aaron Wichman)

Rebecca Katz* Passing the Salt: How Eating Together Creates Community (Dr. Paul Markham)
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