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### SCHEDULE OVERVIEW

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<tr>
<th>Time</th>
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<th>BSC 251 A</th>
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<tr>
<td>3:00 PM</td>
<td>Poster Presentations</td>
<td>African American Studies</td>
<td>Modern and Classical Languages</td>
<td>Service Leadership</td>
<td>History</td>
<td>Medical Humanities</td>
<td>Art History</td>
<td>Pre-Law</td>
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<td>3:20 PM</td>
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<td>Health Care Ethics</td>
<td>Physics</td>
<td>Philosophy</td>
<td>English</td>
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<td><strong>5:00 p.m.</strong></td>
<td><strong>Senior Legacy Reception</strong></td>
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The University community is invited to attend this reception celebrating the Senior Legacy Symposium participants.
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>The HealCopter Tiltrotor</td>
<td>Lyndel Carlson, Walter Hunt, Mary Jennerjohn, and Steven Williams</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>UAV for Study of the Planet Uranus</td>
<td>James Dreas, Justin Krofta, Joe Kirwen, and Phillip Reyes</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>BORDERS SUAS</td>
<td>Kevin Keadle, Jeremy Payne, and Grant Spencer</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>ATM and GLUT1 S490 Enhance GLUT1-mediated Transport via Increased GLUT1/GIPC1 Association</td>
<td>Joseph Chen, Gaytri Patel, and Rikki Koehler</td>
<td>Biology</td>
</tr>
<tr>
<td>Contribution of Glutathione on Survival of Group B Streptococcus in Murine Macrophages</td>
<td>Irene Liu and Minjun Hur</td>
<td>Biology</td>
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<tr>
<td>Introductory Biology Students' Models of the Origin of Genetic Variation</td>
<td>Neil Shaw</td>
<td>Biology</td>
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<tr>
<td>Design of Vascular Constructs for Tissue Engineering</td>
<td>Reynaldo Flores, Elizabeth Rose Kreienkamp, and Jessica Ann Sanneman</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Intravenous Oximeter</td>
<td>Margaret Foster, Jonathan Wilkes, and Patrick Sowa</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>An Experimental and Theoretical Investigation into the Thermodynamic Contribution of Pseudouridine-Adenosine Base Pairs in RNA</td>
<td>Graham Hudson</td>
<td>Chemistry</td>
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<td>Synthesis and Evaluation of a Spiropiperidine Series as Novel Antimalarial Agents</td>
<td>Sarah McNitt</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Improved Algorithm to Predict the Free Energy of Formation of Bulges of Three Nucleotides in RNA Oligomer Duplexes</td>
<td>Meghan Murray</td>
<td>Chemistry</td>
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<tr>
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<tr>
<td>Introducing Innovative Medical Investigations: Two Examples of Student-Driven Projects</td>
<td>Katie Eschbacher and Christina Frerichs</td>
<td>Clinical Laboratory Science</td>
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<tr>
<td>Effect of the Acute Phase Response on Biofilms Produced by Pseudomonas aeruginosa and Staphylococcus aureus.</td>
<td>Stephanie Godfrey</td>
<td>Clinical Laboratory Science</td>
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<tr>
<td>Developing Copper Sulfate Method to Measure Hemoglobin in Developing Countries</td>
<td>Robert Hoerner</td>
<td>Clinical Laboratory Science</td>
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<tr>
<td>Human Neutrophil and Whole Blood Clearance of Glutathione-deficient Group B Streptococcus</td>
<td>Sabina Lin</td>
<td>Clinical Laboratory Science</td>
</tr>
<tr>
<td>Anti-proliferative Effect of Phytochemicals on Colon Cancer Cells</td>
<td>Karen Ly and Joanna Wnorowski</td>
<td>Clinical Laboratory Science</td>
</tr>
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<td>Neuronostatin Activates Specific Protein Expression in Rat Anterior Pituitary Cells: a Possible Role in Growth and Glucose Homeostasis.</td>
<td>Lauren Redlinger</td>
<td>Clinical Laboratory Science</td>
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<td>Comparative Analysis of a Highly Variable Region in Mitochondrial Genomes of Fusarium Oxysporum Species Complex</td>
<td>Varun Singla</td>
<td>Clinical Laboratory Science</td>
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<tr>
<td>Either Feast or Famine: Women's Relationship to Food in Romantic Comedy</td>
<td>Jacqueline Fuqua</td>
<td>Communication</td>
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<tr>
<td>The Boy Who Lives: The Immortality of Harry Potter</td>
<td>Hallie Kaiser</td>
<td>Communication</td>
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<td>St. Louis Media Representation and Audience Perception</td>
<td>Stephanie Mueller</td>
<td>Communication</td>
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<tr>
<td>Hearing Loss and Poverty: Risk Factors and Challenges for School Age Children</td>
<td>Colleen Feldewert</td>
<td>Communication Sciences and Disorders</td>
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**POSTER PRESENTATIONS**

3:00 – 5:00 p.m.  Busch Student Center 171 – 173

**Understanding Auditory Processing Disorders: A Collaborative Approach to Diagnosis and Treatment**
Natalie Miller and Nikki Pain
*Communication Sciences and Disorders*

**Participation in Sports as a Method of Developing Social Communication Skills in Children with Disabilities**
Alli Reimer and Katie Walsh
*Communication Sciences and Disorders*

**Geological Factors Controlling the Formation of Danxia Landform, Southeast China**
Xinwei Zhang
*Earth and Atmospheric Science*

**CLYDE: SLU Balancing Robot**
Richard Henry Jr, David Curtis, Xiaochen Kristin Zhang, and Paige Moore
*Electrical and Computer Engineering*

**Ubiquitous Telemetry Downlink**
Anthony Manno, Gauri Nijsure, and Michael Cole
*Electrical and Computer Engineering*

**The Emerging Market of Central America**
Jonathan Serpas and Dani Trout
*International Business*

**Panama: Channeling Success in an Emerging Market**
Stephanie Woods and MacKenzie Smith
*International Business*

**An Interactive Exploration of Huffman Coding**
Nicholas Brown
*Mathematics and Computer Science*

**Stochastic Modeling and Simulation of Signaling Pathways**
Quan Zou
*Mathematics and Computer Science*

**Poly-Putter**
Danny Brock, Rikin Parikh, Nathan Pelate, and Xianchen Ge
*Mechanical Engineering*

**Collapsible Guitar**
Michael Bronk, Genevieve Dunlap, Michael Weiler, and Landon Wineinger
*Mechanical Engineering*

**Urban Gardening**
Josh Mandernach, Craig Doerfler, and Chris Sichak
*Mechanical Engineering*
POSTER PRESENTATIONS

3:00 – 5:00 p.m. Busch Student Center 171 – 173

We can Merge Technology, but can we Merge Technologists?
Elizabeth Young
Medicine Imaging and Radiation Therapeutics

Amyvid: A Review and Assessment of Clinical Implementation
Harsh Gandhi
Nuclear Medicine Technology

The Variability of CT Techniques and Radiopharmaceutical Doses for SPECT/CT Myocardial Perfusion Imaging (MPI) Studies
Chris Kirchgesner
Nuclear Medicine Technology

Development and Validation of Simple Methods to Reduce Radiation Exposure from FDG PET/CT Patients
Kathleen Yoder
Nuclear Medicine Technology

Hops
Gabriele Geerts
Nutrition and Dietetics

Ginger: Medicinal and Culinary Uses
Abigail Mash
Nutrition and Dietetics

Community Nutrition Media Project: Teenager’s Consumption of Calcium
Taranjeet Singh, Linda Nguyen, and Gabrielle Convington
Nutrition and Dietetics

A Combined Lens: Using Occupational Science and Social Justice to Examine Unemployment and Occupational Injustice in St. Louis, Missouri.
Erin Carroll
Occupational Science and Occupational Therapy

The Role of Interprofessional Education as a Means to Interprofessional Practice in Athletic Training
Andrea Auclair and Catherine Costello
Physical Therapy and Athletic Training

5707.52 Miles Between, Equal Urgency for Physical Therapy
Hilary Obert and Amanda Digangi
Physical Therapy and Athletic Training

The Effect of Fundraising on Women Gubernatorial Candidates
Heather Brocksmith
Political Science
POSTER PRESENTATIONS

3:00 – 5:00 p.m.  Busch Student Center 171 – 173

The Globalized Marketplace
Gregory Frank
Political Science

Issue-Based Gender Stereotypes and the Competence Gap
Kalina Kutriansky
Political Science

Stress Affects Brain Development in Drosophila melanogaster
Jared Lammert
Pre-Professional Health Studies

The Impact of Social Support and Relationship Maintenance on the Effectiveness of Substance Rehabilitation
Alex Baldwin, Claire Bedell, and Kelly Childress
Psychology

Brain Disease?: Influences of Biological Conceptualizations and Locus of Control on Social Stigma
Emily Huston-Warren, Imman Musa, and Caroline Vail
Psychology

Perceptions of Stress and Health in a Sample of Black Males
Nina M. McDonnell
Psychology

From the Nation to the Cities
Nicolas Nunn-Faron
Public Policy Studies

Proton Therapy: Treating Pediatric Patients Diagnosed With Medulloblastoma
Abby Stewart
Radiation Therapy

Simultaneous PET/MRI: The Future of Radiation Treatment Planning
Meghan Talley
Radiation Therapy

SAVI Applicator, Giving Women a Cosmetic Option with Positive Results for Breast Cancer Treatment
Allison Voigt
Radiation Therapy

Robert Wood Johnson New Careers in Nursing 2013
Alaina Jacobson, Brett Reddick, Brittaney Vaughn, Dane Blackwood, Brian Ritter, Rachael Tamale, and Erica Cole, Bert McGuire
School of Nursing
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<th>Presenters</th>
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| 3:00 – 5:00 p.m. | Busch Student Center 171 – 173 | **Implementing Early Prenatal Care in the Dutchtown Community**  
Anna McGovern, Dane Blackwood, Linfang Bao, Lyly Bui, Holly Currier, Elizabeth D'Agostino, Maxcine Felix, and Kristen Lai  
School of Nursing | | |
|              |                   | **Birthright Capstone: Crisis Pregnancy & Healthy Relationships**  
Jana Bersted  
School of Social Work | | |
|              |                   | **Counseling at Loyola Academy of Saint Louis!**  
Johnny Dolan  
School of Social Work | | |
|              |                   | **Justice For All: Advocating for Latino Immigrants in St. Louis**  
Lindsey Weston  
School of Social Work | | |
|              |                   | **The Evolution of Hate Crime**  
Jessica Imlay  
Sociology and Anthropology | | |
|              |                   | **Uncomfortable**  
Gabrielle Zenkov  
Studio Art | | |
|              |                   | **The Life of a Stage Manager**  
Jessica Canfield  
Theatre | | |
# ORAL/CREATIVE PRESENTATIONS

### 3:00 p.m.

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<tr>
<th>BSC 251A</th>
<th>Understanding Black Business: Is That Yo' Cornbread?</th>
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<tbody>
<tr>
<td></td>
<td>Monica M Frazier</td>
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<td><em>African American Studies</em></td>
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<tr>
<th>BSC 251B</th>
<th>Tagebuch eines amerikanischen Studenten in Heidelberg: Journal of a Semester Abroad in Germany</th>
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<tr>
<td></td>
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<th>Wake Up and Smell the Coffee</th>
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<td>Katie Brungardt</td>
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<td>Joseph Genens</td>
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<th>Oncology and Teenagers: Falling Between The Cracks</th>
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<td>Chloe Janvrin</td>
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<th>BSC 254</th>
<th>Andreas Vesalius: Author of Modern Anatomy</th>
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<td>MacKenzie Clark</td>
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<th>Mock Trial: Examining Your Witness</th>
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<td>Brain Greivenkamp, Jessica Holdman, Jessica Imlay, Neeraj Joshi, and Robert Sonnenfelt</td>
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### 3:20 p.m.

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<th>BSC 251A</th>
<th>Socially Constructed: Race and Space</th>
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<td>Wendy Watson</td>
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<th>Motivations of the First Crusaders: The First King of Jerusalem</th>
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<tr>
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<th>Exploring the Multiple Dimensions of Organ Procurement &amp; Transplantation: Kidneys</th>
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<td>BSC 254</td>
<td>A Wet Realism: A Study of Glackens and His Contemporaries</td>
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<td>BSC 256</td>
<td>ADR: The Importance of Mediation</td>
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<td>3:40 p.m.</td>
<td>Dr. King (Scholarship) Done Wrong: A Realistic Look at the Question of Progress</td>
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<tr>
<td>BSC 251A</td>
<td>Surviving Siberia: Examining Sport and Education in Russian society at Children's Republic Summer Camp</td>
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<td>BSC 253A</td>
<td>Quantum Computing</td>
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<td>BSC 251B</td>
<td>Richard Francis Burton: Representations of the Middle East and America</td>
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<td>BSC 253B</td>
<td>The Emergence of English Debate Literature: Rethinking the Authorship of “The Owl and the Nightingale”</td>
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<td>BSC 253D</td>
<td>Transcendentalism and the Development of American Music</td>
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<td>4:00 p.m.</td>
<td>Political Dramaturgy: A Sociological Analysis of Campaign Politics</td>
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<td>BSC 251A</td>
<td>Physician as Mother: A Future for Healthcare after Hurley v. Eddingfield</td>
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<tr>
<td>BSC 253A</td>
<td>A Second Look at Geometric Porosity, as Revealed by Computational Fluid Dynamics (CFD)</td>
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<tr>
<td>BSC 253B</td>
<td>Quining Goodness</td>
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</table>
The Existential Turn and the Aesthetics of Boredom in Post-Postmodern American Literature  
TJ Keeley  
English

Expressing the Inexpressible: The Physiology behind Music and Emotion  
Sarah Michaelis  
Music

4:20 p.m.

Microdrill Utilization at a Fingerhut Tract Structure, Cahokia Mounds, IL  
Stephen Koniak  
Sociology

Cảm Gió: Exploring the Ethics of Coining in Pediatrics  
Kiran Singh  
Health Care Ethics

The Problem of Evil and the Degradation of the Natural World  
Gina Wilmott  
Philosophy

"Life-Writing and the Iranian Muslim Woman: An Exploration of the Emergent Success of Iranian Women Memoirs  
Priya Sirohi  
English

4:40 p.m.

Crisis of Corporeal Control: Female Body Control in Victorian Conduct Literature and Victorian Popular Fiction  
Elise Medley  
English
ABSTRACTS

Lyndel Carlson, Walter Hunt, Mary Jennerjohn, and Steven Williams
Aerospace Engineering
Faculty Sponsor: Lawrence Boyer

The HealCopter Tiltrotor
The HealCopter will provide rapid deployment relief in the event of a disaster. Due to the changing nature of emergencies the aircraft will encounter, various configurations and equipment will be necessary. The aircraft is intended to operate within a fleet of several aircraft performing rescue operation in a coordinated manner. The HealCopter will be able to be easily reconfigurable to perform the following mission tasks: fast deployment and rescue coordination, aid distribution, and search and rescue. The HealCopter will fly faster and farther than competing aircraft enabling it to save lives in future disasters and revolutionize search and rescue efforts.

3:00-5:00 PM    BSC 171-173    Table 59

James Dreas, Justin Krofta, Joe Kirwen, and Phillip Reyes
Aerospace Engineering
Faculty Sponsor: Lawrence Boyer

UAV for Study of the Planet Uranus
The planetary science community has identified in situ study of the planet Uranus as a priority over the next decade. Unmanned aerial vehicles offer the potential to traverse larger areas and fulfill more science objectives than are possible by conventional, parachuting probes. This feasibility study evaluates whether an aircraft on Uranus is both possible and preferable when compared to traditional probes. The vehicle is designed to study the Uranian atmosphere for 100 hours over a range of altitudes. Constraints on the aircraft's size imposed by its entry vehicle dimensions led to a gliding concept with deployable wing sections and empennage.

3:00-5:00 PM    BSC 171-173    Table 60

Kevin Keadle, Jeremy Payne, and Grant Spencer
Aerospace Engineering
Faculty Sponsor: Sanjay Jayaram

BORDERS SUAS
The BORDERS small unmanned air system (SUAS) competition under the Department of Homeland Security (DHS) has challenged students to develop a prototype for a small unmanned aircraft system based on meeting the established criteria set by the government provided request for proposal. Innovative SUAS design concepts were encouraged along with the use of advanced materials such as composites. The prototype will have high potential to strengthen U.S. border security with the objective of providing airborne surveillance coverage in order to assist law enforcement with the capability to detect, identify, and track illegal aliens and illicit drug traffic.

3:00-5:00 PM    BSC 171-173    Table 61

Monica Frazier
African American Studies
Faculty Sponsor: Jonathan Smith

Understanding Black Business: Is That Yo’ Cornbread?
Throughout American history, enslaved Africans were forced into certain physical, economic, and social spaces, utilizing their resources to provide for themselves and their community against racial barriers. This has formed a unique view of business as a means to self help rather than capital gain. But what are the benefits to having black businesses; how can the black community rise in economic status? This proposal will address this question by understanding race and capitalism. Through this analysis, I hope to support the idea that black businesses are essential and that through the power of capitalism black economic status can rise.

3:00 PM    BSC 251 A

Maria Smith
African American Studies
Faculty Sponsor: Jonathan Smith

Dr. King (Scholarship) Done Wrong: A Realistic Look at the Question of Progress
The Dr. Martin Luther King, Jr. Scholarship has undergone a variety of changes within the Saint Louis University community over the past twenty years. It continues to face the challenge of promoting Dr. King’s ideals within a society that sees itself as “post-racial” and the life work of Dr. King as complete. Through the use of autoethnography, insight into the historical context and current state of the scholarship will be provided. The aim is to identify ways in which the scholarship fails to live out Dr. King’s legacy and address what impact this has on the entire university community.

3:40 PM    BSC 251 A

Wendy Watson
African American Studies
Faculty Sponsor: Jonathan Smith

Socially Constructed: Race and Space
My goal is to establish a definition of race that sees space as the primary constituent. Within public transportation, space and its relationship to race is key to my research. Space is a constantly moving entity and my research seeks to identify how to take ownership of particular spaces. This study reviews works of Higginbotham, Appiah, and Haney-Lopez and brings their ideas to one central thought. Via daily bus rides, I observed interactions to establish how race and space work collectively. Through readings of authors who discuss race and its impact, I can bring it together cohesively.

3:20 PM    BSC 251 A
Ghislaine Angieri  
*Art History*
Faculty Sponsor: Bradley Bailey

**A Wet Realism: A Study of Glackens and His Contemporaries**  
In my paper entitled "A Wet Realism: A Study of William Glackens and His Contemporaries," I analyze the work of a few key artists of the Ashcan School and identify the qualities in their work that stand apart from previous academic styles of Realism. Looking especially at the painting *Young Woman in Green*, by William Glackens, I emphasize the immediacy of the style; particularly, I use the term "wet Realism" to describe the look and feel of the work. I argue that this freshness and painterly technique characterizes the journalistic ideal of the Ashcan school to present a subject's imminence.

**3:20 PM  BSC 254**

MacKenzie Clark  
*Art History*
Faculty Sponsor: Cathleen Fleck

**Andreas Vesalius: Author of Modern Anatomy**  
Prior to Andreas Vesalius of Brussels, the study of anatomy was based off the theories of Galen, an ancient Greek philosopher and anatomist from the second century CE. Vesalius worked to disprove Galen's approach and improve the study of anatomy by illustrating dissections, printing his illustrations in a popular book called *De humani Fabrica*, and mass producing and disseminating the book through the new invention of the printing press.

**3:00 PM  BSC 254**

Joseph Chen, Gaytri Patel, and Rikki Koehler  
*Biology*
Faculty Sponsor: Jonathan Fisher

**ATM and GLUT1 S490 Enhance GLUT1-mediated Transport via Increased GLUT1/GIPC1 Association**  
Glucose Transporter 1 (GLUT1) mediates basal glucose and dehydroascorbic acid transport. The GLUT1 carboxy-terminus contains Serine 490 (S490), an ataxia telangiectsia mutated (ATM) phosphorylation target. Previous data showed decreases in GLUT1-mediated transport due to ATM inhibition. Our objective is to determine the effects of ATM and S490 on GLUT1-mediated transport and the relevance of GIPC PDZ domain containing family protein's (GIPC1) interaction with GLUT1. Transport and immunoprecipitation assays showed that decreases in GLUT1-mediated transport due to ATM inhibition or prevention of S490 phosphorylation paralleled GLUT1-GIPC1 association. The findings showed that ATM and GLUT1-S490D upregulate GLUT1-mediated transport associated with increased GLUT1-GIPC1 interaction.

**3:00-5:00 PM  BSC 171-173  Table 21**

Reynaldo Flores, Elizabeth Rose Kreienkamp, and Jessica Ann Sanneman  
*Biomedical Engineering*
Faculty Sponsor: Gary Bledsoe and Jessica Wagenseil

**Design of Vascular Constructs for Tissue Engineering**  
With over 500,000 heart bypass surgeries performed each year, there is a need for small-diameter replacement arteries. Although blood vessel segments can sometimes be taken from another spot on a patient's body or xenographic arteries can be obtained from animal sources, both of these possibilities have the potential to cause problems. Therefore, in response to this need and to recent findings that bioactive glass can initiate wound healing, a composite material containing bioactive glass was used to design a tissue engineered blood vessel.

**3:00-5:00 PM  BSC 171-173  Table 64**
Intravenous Oximeter
Over 40,000 newborns are affected by congenital heart defects in the US each year. Current treatment requires surgery or catheterization, the latter of which draws blood several times from vessels around the child’s heart. This practice results in a significant loss of blood relative to the small size of the newborn. Hence, the goal of our project is to develop an alternate method to obtain blood oxygen readings. Our proposed solution is to develop a fiber optic pulse oximeter that can be inserted directly into the bloodstream to obtain a continuous measurement of oxygen saturation.

3:00-5:00 PM  BSC 171-173  Table 65

Graham Hudson
Chemistry
Faculty Sponsor: Brent M. Znosko

An Experimental and Theoretical Investigation into the Thermodynamic Contribution of Pseudouridine-Adenosine Base Pairs in RNA
Pseudouridine (Ψ) is the most common non-canonical nucleotide present in RNA and serves many roles in the cell, typically appearing where structural stability is crucial to function. To quantify the thermodynamic impact of pseudouridylation on U-A base pairs, 24 oligoribonucleotides, 16 with internal Ψ-A pairs and 8 with terminal Ψ-A pairs, were thermodynamically characterized and used to generate parameters for use in secondary structure prediction. On average, internally and terminally pseudouridylation increased stability by 1.7 kcal/mol and 1.0 kcal/mol more stable than their U-A equivalents, respectively. Additionally, computational modeling was used to predict RNA secondary structure from sequence and melting temperature - were determined. The LINEST function in Excel was then used to derive a new model predicting the free energy of triple nucleotide bulges. This model takes both closing pair and bulge sequence into account and predicts free energy values more accurately than the current model.

3:00-5:00 PM  BSC 171-173  Table 24

Sarah McNitt
Chemistry
Faculty Sponsor: Marvin Meyers

Synthesis and Evaluation of a Spiropiperidine Series as Novel Antimalarial Agents
Widespread multi-drug resistant strains of the malaria parasite Plasmodium falciparum have hindered treatment and control of this global health problem. In an effort to develop orally active novel antimalarial agents, a 2,4,8-triazaspiro[4.5]decane-1,3-dione scaffold was utilized as a template for synthesizing compounds with improved pharmaceutical properties and antimalarial potency. Analog synthesis focused on substituting various functional groups at the N-8 position. Structure-activity relationship (SAR) analysis of N-8 groups revealed Pf 3D7 IC50 values as low as 123 nM. While modest potency was achieved with this series, pharmacokinetic data suggests a need for more metabolically stable analogs.

3:00-5:00 PM  BSC 171-173  Table 25

Stephanie Godfrey
Clinical Laboratory Science
Faculty Sponsor: Rita Heuertz

Effect of the Acute Phase Response on Biofilms Produced by Pseudomonas aeruginosa and Staphylococcus aureus.
Biofilms are major players in bacterial infections and have been implicated in increased antimicrobial resistance as well as nosocomial and iatrogenic infections. The purpose of this project was to determine if the humoral innate immune response played a defensive role against bacterial biofilm formation. Specifically, C-reactive protein (CRP: a positive acute phase reactant) and albumin (ALB: a negative acute phase protein) were assessed for ability to inhibit biofilm produced by Pseudomonas aeruginosa and Staphylococcus aureus (major causes of infections). Preliminary results suggest that neither protein inhibited biofilm production and that perhaps the added protein was added to the biofilm mass.

3:00-5:00 PM  BSC 171-173  Table 14
Robert Hoerner
Clinical Laboratory Science
Faculty Sponsor: Tim R. Randolph

Developing Copper Sulfate Method to Measure Hemoglobin in Developing Countries
The objective was to validate previously accomplished work and also to determine the best anticoagulant among EDTA (ethylenediaminetetraacetic acid), heparin, sodium citrate, and sodium fluoride/ammonium oxalate for use in the quantitative copper sulfate method for measuring hemoglobin levels. Trials were performed with EDTA anticoagulated blood of 15.0 g/dL hemoglobin (Hb) levels to validate previous work and then to perform trials with blood anticoagulated with one of four anticoagulants to determine the best anticoagulant based upon blood droplet descent times. Sodium citrate yielded the smallest standard deviation from its average descent time. This points to sodium citrate being the best anticoagulant.

3:00-5:00 PM   BSC 171-173   Table 10

Sabina Lin
Clinical Laboratory Science
Faculty Sponsor: Blythe Janowiak

Human Neutrophil and Whole Blood Clearance of Glutathione-deficient Group B Streptococcus
Streptococcus agalactiae, Group B Streptococcus (GBS), causes neonatal meningitis and has developed resistance to many antibiotics. Thus research was conducted to study the defenses of GBS and develop new antibiotics. Neutrophils and whole blood were infected with glutathione-deficient and wild-type GBS. Colony-forming units were counted and recorded. We hypothesized that wild-type GBS would survive better than the glutathione-deficient GBS. Results showed that there was a significant decrease of survival of glutathione-deficient GBS in neutrophils, but not in whole blood, compared to wild-type GBS. Future experiments will focus on optimizing the conditions for the whole blood killing assay.

3:00-5:00 PM   BSC 171-173   Table 12

Karen Ly and Joanna Wnorowski
Clinical Laboratory Science
Faculty Sponsor: Uthayashanker Ezekiel

Anti-proliferative effect of phytochemicals on colon cancer cells
According to the American Cancer Society, colorectal cancer is the third leading cause of cancer death in the United States and the third most commonly diagnosed cancer in the United States. The incidence of colon cancer dramatically increases after age 40 and peak incidence occurs in the seventh decade of life. Several scientific and epidemiological studies have made strong associations between colon cancer and dietary factors. The focus of this project was to ascertain anti-proliferative effects of plant-derived compounds when the phytochemicals were presented singly or in combination.

3:00-5:00 PM   BSC 171-173   Table 10

Lauren Redlinger
Clinical Laboratory Science
Faculty Sponsor: Willis K. Samson

Neuronostatin Activates Specific Protein Expression in Rat Anterior Pituitary Cells: a Possible Role in Growth and Glucose Homeostasis
Neuronostatin is a recently discovered peptide hormone encoded in the somatostatin preprohormone. It is suspected to have actions in the anterior pituitary gland. Primary anterior pituitary cells were cultured from rats and treated with neuronostatin. The mRNA from this tissue was then isolated and examined using real-time polymerase chain reaction for a profile of different protein message. Preliminary data shows an increase in Growth Hormone message. Increasing growth hormone message in the anterior pituitary gland agrees with unpublished work of the Samson lab, which showed affects of neuronostatin on glucose homeostatis due to actions in the pancreas.

3:00-5:00 PM   BSC 171-173   Table 09

Varun Singla
Clinical Laboratory Science
Faculty Sponsor: John C. Kennell

Comparative Analysis of a Highly Variable Region in Mitochondrial Genomes of Fusarium Oxysporum Species Complex
This study involves a comparative genomic analysis of a highly variable region (HVR) in the mitochondrial DNA of the Fusarium genus. Through sequencing and annotation, we show that a large, variable unidentified open reading frame (LV-uORF) and an alternative arrangement without this LV-uORF is present in the genus. This region between the ml and nad2 genes in Fusarium is highly variable and appears to be a repository for mobile elements. The LV-uORF did not co-evolve with other mitochondrial genes and appears to have been horizontally acquired. The putative polypeptide is predicted to be located in the mitochondrial membrane.

3:00-5:00 PM   BSC 171-173   Table 11

Jacqueline Fuqua
Communication
Faculty Sponsor: Elizabeth Richard

Either Feast or Famine: Women's Relationship to Food in Romantic Comedy
This project interrogates the characterizations of women's relationship to food in the genre of romantic comedy. In the method of rhetorical content analysis, this research uses the open and axial coding of 30 romantic comedies (1977-2009) to discuss the evolution of women's documented interactions with food. How women eat on screen can yield serious implications for viewers' perceptions of eating behavior and body image. Depictions of underweight women consuming calorically high foods without exercising is not reality. Romantic comedies therefore contribute not only to the culture of thinness, but also girls' mal-informed understandings of what, when, and how to eat.

3:00-5:00 PM   BSC 171-173   Table 53
factors for having a hearing loss include lack of access to regular pre-natal also not getting needed additional educational and medical services. Risk poverty have an increased likelihood of not only having a hearing loss but with low socioeconomic status in urban metropolitan areas. Children in hearing loss and its consequences in school age children born into families The purpose of this project is to present the causes and risk factors for intervention may be hindered by the financial restrictions (e.g. hearing aids or pediatric health care, and environmental factors. Treatment and direction, or discriminating between similar sounding words. These difficulties are not caused by cognitive, language, or hearing impairments; however, these impairments can co-occur. This project summarizes and elucidates complications with diagnosing and treating APD. While there is much debate over the specific roles of speech-language pathologists and audiologists, the necessity for an interdisciplinary approach is emphasized by the complexity of the disorder. The project examines current literature and specific techniques employed by clinicians.

Digital media has power to influence public opinions, often with unforeseen repercussions. St. Louis has fallen victim to this influence, with high crime rates and racial divisions dominating media reports of the city and adversely impacting its reputation. Through interviews with Saint Louis citizens, transplants, visitors, and other US citizens, the accuracy of these media representations will be examined. An understanding of the discrepancy between representation and perception will be used to establish greater cohesion between the two, improving the effectiveness and fairness of digital media.

The purpose of this project is to present the causes and risk factors for hearing loss and its consequences in school age children born into families with low socioeconomic status in urban metropolitan areas. Children in poverty have an increased likelihood of not only having a hearing loss but also not getting needed additional educational and medical services. Risk factors for having a hearing loss include lack of access to regular pre-natal or pediatric health care, and environmental factors. Treatment and intervention may be hindered by the financial restrictions (e.g. hearing aids and/or cochlear implants) and substandard special educational services.

The Boy Who Lives: The Immortality of Harry Potter
This presentation displays the author’s work in analyzing the culture industry surrounding Harry Potter. This study explored the meaning behind many of the subversive messages within the Potter-books, particularly relating to the motif of more. The author discusses this motif and the manifold repercussions of this motif through a cultural studies lens. In viewing this motif and in relation to the popularity of this series, it is evident that the more-motif is applied extratextually to the series. The author reaches the cautionary conclusion that individuals should not dream of having more and cease to live in the real world.

St. Louis Media Representation and Audience Perception
Digital media has power to influence public opinions, often with unforeseen repercussions. St. Louis has fallen victim to this influence, with high crime rates and racial divisions dominating media reports of the city and adversely impacting its reputation. Through interviews with Saint Louis citizens, transplants, visitors, and other US citizens, the accuracy of these media representations will be examined. An understanding of the discrepancy between representation and perception will be used to establish greater cohesion between the two, improving the effectiveness and fairness of digital media.

Hearing Loss and Poverty: Risk Factors and Challenges for School Age Children
The purpose of this project is to present the causes and risk factors for hearing loss and its consequences in school age children born into families with low socioeconomic status in urban metropolitan areas. Children in poverty have an increased likelihood of not only having a hearing loss but also not getting needed additional educational and medical services. Risk factors for having a hearing loss include lack of access to regular pre-natal or pediatric health care, and environmental factors. Treatment and intervention may be hindered by the financial restrictions (e.g. hearing aids and/or cochlear implants) and substandard special educational services.

Understanding Auditory Processing Disorders: A Collaborative Approach to Diagnosis and Treatment
An auditory processing disorder (APD) is a complex and misunderstood portion of speech, language and hearing disorders. Individuals with APD may have difficulty understanding speech-in-noise, following multi-step directions, or discriminating between similar sounding words. These difficulties are not caused by cognitive, language, or hearing impairments; however, these impairments can co-occur. This project summarizes and elucidates complications with diagnosing and treating APD. While there is much debate over the specific roles of speech-language pathologists and audiologists, the necessity for an interdisciplinary approach is emphasized by the complexity of the disorder. The project examines current literature and specific techniques employed by clinicians.

Participation in Sports as a Method of Developing Social Communication Skills in Children with Disabilities
There are proven positive effects of participating in sports on the development of social communication skills in children with disabilities. These children often do not participate in school sports. Participation in sports can develop skills such as learning collaboration with others, following rules, and expressing appropriate emotion. These skills are important in adult life skills such as employment and interpersonal relationships. The importance of this has been recognized by the US Department of Education Office of Civil Rights in a 2013 ruling requiring that schools provide children with disabilities the opportunity to participate in school sports.

Geological Factors Controlling the Formation of Danxia Landform, Southeast China
Danxia landform (literally “red glow” or “rosy cloud”) is the name given in China to landscapes developed on continental, commonly red-colored, sedimentary formations characterized by steep cliffs with karst-like features (including caves). The study area of Longhushan, in Jiangxi province, boasts the archetypal danxia landform. The landform is developed in sedimentary breccias and sandstones of alluvial fan-type sequences that were deposited in Mesozoic rift basins. We have conducted remote sensing and field-based investigations to determine the major controls in the formation of this landform, focusing on the Luxi sub basin, which is an area with the highest concentration of danxia landforms. The result shows Regional main faults not only control the basin pattern from large scale but also influence the orientation of the Danxia Peaks.
Richard Henry Jr, David Curtis, Xiaochen Kristin Zhang, and Paige Moore
Electrical and Computer Engineering
Faculty Sponsor: Kyle Mitchell

**CLYDE: SLU Balancing Robot**
The idea of developing a balancing robot is to represent SLU in a major competition with a final objective of getting on the podium. CLYDE, SLU's balancing robot, will compete in the 2013 RoboGames competition (largest open robot competition in the world) which will be held in San Mateo, California between April 19 and April 21, 2013. The event in which we will be competing is called Balancer Race. The main objective is to complete the course in the shortest period of time while staying balanced.

3:00-5:00 PM  BSC 171-173  Table 62

Anthony Manno, Gauri Nijsure, and Michael Cole
Electrical and Computer Engineering
Faculty Sponsor: Kyle Mitchell

**Ubiquitous Telemetry Downlink**
An airborne system for small unmanned aerial vehicles (UAV's), with the capability to stream a wireless video feed, from any standard off-the-shelf webcam, to multiple ground stations. In addition to streaming video, the airborne system will also stream data from auxiliary sensors onboard the UAV. These sensors may be a variety of off-the-shelf sensors with connection types of USB, Serial RS232, Ethernet and input/output pins. The ground station will be equipped with software to command and control all the sensors on board the UAV, including the video camera.

3:00-5:00 PM  BSC 171-173  Table 63

TJ Keeley
English
Faculty Sponsor: Rachel Greenwald-Smith

**The Existential Turn and the Aesthetics of Boredom in Post-Postmodern American Literature**
American literature, in attempt to understand the American subject's place in the contemporary world, has long reached into the past to interpret the condition of the present. As late capitalism shapes the global market and as technology fosters and hinders communication, the individual subject in post-postmodern American literature has become temporally displaced. This project examines how three works of fiction from the period – A Visit from the Good Squad by Jennifer Egan, Zone One by Colson Whitehead, and The Pale King by David Foster Wallace – experiment with form and aesthetics in order to engage problems of boredom and temporality and trouble the dominant existential condition their contemporary America.

4:00 PM  BSC 253 D

Elise Medley
English
Faculty Sponsor: Anne Stiles

**Crisis of Corporeal Control: Female Body Control in Victorian Conduct Literature and Victorian Popular Fiction**
For many women, the Victorian era was marked by controlled customs and manners, and this control extended to the body as well. In Victorian conduct literature for women, the authors emphasize the need for women’s physical forms to be controlled through temperate food consumption and specific dress, thereby describing a culture that can be seen as an ancestor to today’s anorexic culture. In this thesis, I will use the non-fiction genre of Victorian conduct literature to examine the depictions of these standards of female bodily control in two works of popular Victorian fiction, Jane Eyre and Woman in White.

4:40 PM  BSC 253 D

Colin Pajda
English
Faculty Sponsor: Ruth Evans

**The Emergence of English Debate Literature: Rethinking the Authorship of "The Owl and the Nightingale"**
The Owl and the Nightingale is an early Middle English poem concerned with the debate between the eponymous birds over who is of the greatest utility to humanity. Nearly every facet of the poem is contended and little if anything can be agreed on about its position in debate genre, its author, its date of composition, or, most importantly, its raison d’etre. In my study, I conclude that the poem’s central goal is the validation of the English language as a literary medium during a time when French and Latin were considered culturally superior.

3:40 PM  BSC 253 D

Priya Sirohi
English
Faculty Sponsor: Toby Benis

"Life-Writing and the Iranian Muslim Woman: An Exploration of the Emergent Success of Iranian Women Memoirs"
The motives behind Western readers for reading Iranian women memoirists is explored through the lens of Orientalism. After that, and exploration of the motives of Iranian memoirists for writing their memoirs ensues. The project hopes to come to a better understanding of a burgeoning phenomenon of Iranian women's memoirs.

4:20 PM  BSC 253 D

Kiran Singh
Health Care Ethics
Faculty Sponsor: Devan Stahl

**Cạo Gió: Exploring the Ethics of Coining in Pediatrics**
This project involves cultural preferences on care, particularly in pediatric ethics. The presentation specifically discusses the alternative medicine practice of cạo gió. With an increasing globalization in society today, the health care sector is expose

4:20 PM  BSC 251 B
Physician as Mother: A Future for Healthcare after Hurley v. Eddingfield

Physicians maintain no obligation to treat the afflicted and the wounded. This is the standard set forth by the 1901 Indiana Supreme Court case of Hurley v. Eddingfield, and remains in effect today. Such a standard has left the legal state of American medical practice at odds with contemporary ethical ideologies. Channeling theories and philosophies from disciplines as medical humanities, contemporary bioethics, and American jurisprudence, the current paper explores these conflicts and proposes a new standard for physician obligation - medical “maternalism.”

Joseph Genens
History
Faculty Sponsor: Neil Hackett

The War Against Catiline: An Analysis of the Catilinarian Conspiracy and Cicero’s Thoughts on War

Absent of any previous military leadership experience, Cicero was surely overwhelmed when, after being elected as Roman Consul in 63 BCE, Catiline led both defecting Romans and Gauls against him. After examining both ancient and contemporary sources, I address three interesting questions: Why did Cicero desire the Senate’s approval before acting? Why did he delay Catiline’s execution if he was certain of the latter’s guilt? Why did Cicero adhere to the classical notion of just war while withstanding an unjust attack? Because he lacked military experience, Cicero reacted to Catiline’s treason in a different manner than Roman tradition would dictate.

Karen Girgis
History
Faculty Sponsor: Flannery Burke

Richard Francis Burton: Representations of the Middle East and America

Focusing primarily on Richard Francis Burton’s travels to Egypt, Mecca, and Medina in 1853, my research primarily focuses on how the English explorer represented Muslim Arab life and belief. Using his personal narratives, published in two volumes posthumously in 1893, I strive to understand more fully the kind of assumptions Burton made of Arab life and belief in his writings and why he holds them. In my research thus far, I am finding that Burton often consciously adopted certain values of Middle Eastern culture and unconsciously adopted others. All the while he still asserted the superiority of British culture as a whole.
Quan Zou  
Mathematics and Computer Science  
Faculty Sponsor: Haijun Gong  

Stochastic Modeling and Simulation of Signaling Pathways  
High-mobility group box-1 (HMGB1) protein has been recently shown to be associated with the cell proliferation of various types of cancers. HMGB1 can activate a number of signaling networks – p53, Ras and Rb pathways – which control many physiological processes of the cell. We propose a rule-based model of HMGB1 to investigate how these couplings influence proliferation and apoptosis of cancer cells using the BioNetGen language. Ordinary differential equations and Gillespie’s stochastic simulation algorithm are applied to analyze quantitative properties of the model. The stochastic simulations show that HMGB1-activated receptors can generate sustained oscillations of irregular amplitude for the p53 protein.

3:00-5:00 PM  BSC 171-173  Table 03  

Danny Brock, Rikin Parikh, Nathan Pelate, and Xianchen Ge  
Mechanical Engineering  
Faculty Sponsor: Sridhar Condoor  

Poly-Putter  
The team’s goal is to bring the design to the market. It will primarily target those who play golf recreationally and are reasonably skilled, but do not strive to play at the competitive level. Our project features the design of a putter head with customizable weight distribution. It allows the user to change the weight distribution within the putter head. Our team created a model prototype and is currently working on minimizing vibrations using simulations. To dampen vibrations further we will add an insert, which will be a patch of relatively soft material that fits the face of the putter.

3:00-5:00 PM  BSC 171-173  Table 58  

Michael Bronk, Genevieve Dunlap, Michael Weiler, and Landon Wineinger  
Mechanical Engineering  
Faculty Sponsor: Sridhar Condoor  

Collapsible Guitar  
The objective of our Senior Design project is to design a collapsible guitar that can fit into a standard carry-on bag. Our team went through various design stages, including need analysis, conceptual design, detailed design, and finally, embodiment and construction. This project addresses the problem of traveling with guitars, which can be a great hassle and can potentially damage the instrument. We expect that by the end of the semester, we will have a full-scale, operational prototype. This prototype is a guitar that is simple to assemble and disassemble, with comparable sound quality, appearance, and size to standard guitars.

3:00-5:00 PM  BSC 171-173  Table 57  

Josh Mandernach, Craig Doerfler, and Chris Sichak  
Mechanical Engineering  
Faculty Sponsor: Sridhar Condoor  

Urban Gardening  
The purpose of this project is to use engineering knowledge and techniques to bring a garden inside the home of every urbanite. The gardening system will allow virtually hands free production of small herbs, vegetables, and flowers. Lighting will come from a window as well as an artificial source and water will be provided by a recirculating drainage system. The design will allow for a customizable assembly to fit the needs of different households as well as provide the option of additional gardening beds. Having fresh plants available in the home allows one to have a healthier lifestyle while also providing a decorative appeal.

3:00-5:00 PM  BSC 171-173  Table 56  

Chloe Janvrin  
Medical Humanities  
Faculty Sponsor: Anne Stiles  

Oncology and Teenagers: Falling Between The Cracks  
In this presentation/paper I hope to demonstrate how teenagers suffering from cancer often fall through the cracks not only in medical but psychological treatment as well. These teenagers are typically split into either pediatric or adult cases though they do not completely fit into either one or the other. If teen specific care could be provided the health and well-being of these individuals and their families would be better served. I propose examining how care specified towards teens can be implemented in cancer centers and to provide examples of how some organizations are working towards such a goal.

3:00 PM  BSC 253 D  

Taranjeet Singh  
Medical Humanities  
Faculty Sponsor: Anne Stiles  

Exploring the Multiple Dimensions of Organ Procurement & Transplantation: Kidneys  
This paper seeks to address important issues regarding organ procurement and transplantation, specifically the kidneys. Topics of discussion will include the ethical concerns of black market organ transactions, legal dimensions of organ distribution and allocation, patient experiences with pre- and post-surgery, and feasible solutions to address the need for organs.

3:20 PM  BSC 253 D
Elizabeth Young  
*Medical Imaging and Radiation Therapeutics*  
Faculty Sponsor: Marcey Kennedy

**We can Merge Technology, but can we Merge Technologists?**

PET/MRI is an emerging technology offering anatomic, microstructural, functional, and metabolic information all in one modality. As more clinical sites move to multi-modality PET/MRI systems, it will be advantageous for magnetic resonance imaging (MRI) and nuclear medicine (NM) technologists to cross train in order to optimize the potential operation of hybrid systems. MRI and NM technologists completed a Qualtrics survey consisting of questions about demographic data, education, and willingness to cross train. We found that willingness to cross train for hybrid systems is dependent upon factors such as education, and years since graduation.

3:00-5:00 PM  BSC 171-173  Table 08

Katie Carpenter  
*Modern and Classical Languages*  
Faculty Sponsor: David Murphy

**Surviving Siberia: Examining Sport and Education in Russian society at Children’s Republic Summer Camp**

This project will discuss an ever-growing civil society in Russia, especially in less visited and perhaps less “Westernized” cities, and what changes may have occurred since the fall of the Soviet Union. The presentation will be based on prior examination of both primary and secondary sources regarding politics, sport and education in Russia, and later a summer internship project, also serving as a total cultural and linguistic immersion experience, at “Rebyach’ya Respublika” children’s summer camp in Tyumen, Russia, located in the Tyumen region in western Siberia.

3:40 PM  BSC 251 B

Eric Cooney  
*Modern and Classical Languages*  
Faculty Sponsor: Gregory Divers

**Tagebuch eines amerikanischen Studenten in Heidelberg: Journal of a Semester Abroad in Germany**

Studying abroad during college is a transformative experience in the life of a young adult. Besides the many personal lessons to be learned by such an experience, study abroad presents a unique opportunity to learn about a different culture. Using the time I spent in Germany during the fall semester of 2011 as invaluable research, I have chronicled these differences in the form of a journal and commentary. The journal documents the challenges and successes which arise when living in a different culture, while the commentary discusses the many differences in cultures experienced by studying abroad.

3:00 PM  BSC 251 B

Margaux Dechambre  
*Modern and Classical Languages*  
Faculty Sponsor: Olga Arbelaez

**A Study About the Health Services for Children in Ecuador**

The infant mortality rate in Ecuador is 19.06 deaths for every 1000 live births. The Ecuadorian children face many risks in their lives. The greatest causes of infant deaths in Ecuador include pneumonia, diarrhea, premature births, neonatal infections, malaria and the lack of oxygen at birth. Malnutrition and HIV also affect the children and their wellbeing. This study will explore the effect that the new private and government initiatives have had in the different regions of the country to address this problem, and will provide an assessment of its effectiveness.

3:20 PM  BSC 251 B

Kristin Hausheer  
*Music*  
Faculty Sponsor: Pamela Dees

**Transcendentalism and the Development of American Music**

This paper seeks to examine the effect of Transcendentalism on the development of music in America. The initial research, drawn largely from primary sources, discusses the origins of Transcendentalism, its major contributors, and its lasting effect on American intellectual culture. Following this discussion, the lives and works of two Transcendental composers, Amy Beach and Charles Ives, will be examined in detail. Both were committed to the prospect of a truly American musical form, and Transcendentalism was a unifying force behind this desire.

3:40 PM  BSC 254

Sarah Michaelis  
*Music*  
Faculty Sponsor: Robert Hughes

**Expressing the Inexpressible: The Physiology behind Music and Emotion**

Historically, human instinct has embraced music as a distinctly significant medium for emotional expression. With the advent of technological advancements and knowledge about brain functionality, researchers are gathering empirical support for our natural inclination to associate music and emotion. Moreover, the pursuit of knowledge about the interactive relationship between music and emotion is beneficial as it is applied to Music Therapy. This presentation will examine the current body of research regarding music and emotion both aesthetically and physiologically. It is the goal of this presentation to offer insight into future research as it relates to Music Therapy and Music Psychology.

4:00 PM  BSC 254
Harsh Gandhi  
*Nuclear Medicine Technology*  
Faculty Sponsor: William Hubble and Crystal Botkin

**Amyvid: A Review and Assessment of Clinical Implementation**  
Objective: The purpose of this study is to educate technologists on obstacles to clinical implementation of Amyvid. Amyvid (Florbetapir F-18), is a new FDA-approved PET tracer that images β-amyloid neuritic plaques common in those with Alzheimer's Disease. Methods: Interviews were conducted at two separate institutions in the St. Louis area that have implemented Amyvid in research trials and recorded. Results: Interview responses suggest that the largest barriers to clinical implementation of Amyvid are reimbursement by insurance companies and Amyvid's role in patient management and outcomes. Conclusion: Amyvid was implemented successfully, its future clinical usefulness still remain to be seen.  
3:00-5:00 PM  BSC 171-173  Table 18

Chris Kirchgesner  
*Nuclear Medicine Technology*  
Faculty Sponsor: William Hubble, Crystal Botkin, and Debra Hewing

**The Variability of CT Techniques and Radiopharmaceutical Doses for SPECT/CT Myocardial Perfusion Imaging (MPI) Studies**  
Objective: CT techniques and radiopharmaceutical doses can vary among clinical facilities. The purpose of this study is to review MPI protocols from three facilities using SPECT/CT cameras from three major vendors to compare differences in radiation exposure. Methods: Protocols from three local facilities performing SPECT/CT-MPI were examined to determine inter-facility variation in radiation dosage. Items examined included: manufacturer and model of equipment; radiopharmaceutical dose of Tetrofosmin/Sestamibi; and CT technique (kV & mAs). Conclusion: While results show variability in radiopharmaceutical dosage and CT parameters, more work remains to create comparable low-dose protocols while optimizing information and image quality during SPECT/CT-MPI studies.  
3:00-5:00 PM  BSC 171-173  Table 17

Kathleen Yoder  
*Nuclear Medicine Technology*  
Faculty Sponsor: Crystal Botkin

**Development and Validation of Simple Methods to Reduce Radiation Exposure from FDG PET/CT Patients**  
The purpose of this study was to explore the efficacy of methods for reducing the radiation dose from a discharged patient who has recently undergone an 18F-FDG PET/CT scan to the general public. Of the 15 patients surveyed, 86% were above the 2.0 mR/hr reading they should be at discharge per NRC guidelines. The average reading at the normal discharge time was 2.71 mR/hr. Simple, inexpensive changes in discharge procedures following an 18F-FDG PET scan can reduce the radiation exposure to other patients and the general public to fall within acceptable NRC release limits.  
3:00-5:00 PM  BSC 171-173  Table 16

Gabriele Geerts  
*Nutrition and Dietetics*  
Faculty Sponsor: Mildred Mattfeldt-Beman

**Hops**  
To investigate the culinary and medicinal purposes of hops with an emphasis on practical use in brewing my own beer.  
3:00-5:00 PM  BSC 171-173  Table 27

Abigail Mash  
*Nutrition and Dietetics*  
Faculty Sponsor: Mildred Mattfeldt-Beman

**Ginger: Medicinal and Culinary Uses**  
Ginger has long been used as a natural approach to treat a variety of medical conditions ranging from nausea to arthritis. This project aims to explore medicinal and culinary uses of the herb and strives to create a palatable product when combining the herb together with local produce. Research revealed information on the plant itself, how to select and store the freshest and most flavorful herb, and how to utilize the herb in a variety of recipes. Health benefits of the herb were examined and an appealing product was created to encourage others to enjoy the many benefits of ginger.  
3:00-5:00 PM  BSC 171-173  Table 28

Taranjeet Singh, Linda Nguyen, and Gabrielle Corvington  
*Nutrition and Dietetics*  
Faculty Sponsor: Lori Jones

**Community Nutrition Media Project: Teenager's Consumption of Calcium**  
The purpose of this multimedia community project is to market health and nutritional messages to a target population. Our group specifically targeted teenage girl's consumption of calcium. The components of this project include a printed advertisement, radio announcement, a music video, and a Facebook page.  
3:00-5:00 PM  BSC 171-173  Table 29

Erin Carroll  
*Occupational Science and Occupational Therapy*  
Faculty Sponsor: Rebecca Aldrich

**A Combined Lens: Using Occupational Science and Social Justice to Examine Unemployment and Occupational Injustice in St. Louis, Missouri**  
The purpose of this poster is to communicate the relationship of occupational injustice, occupational deprivation, and experiences of unemployment in urban St. Louis, Missouri. Using combined approaches of occupational science, urban analysis and social justice, this poster presents an analysis of literature review, as well as observations and interviews from a larger qualitative study on occupation and unemployment. Findings illuminate lived experiences associated with unemployment, in relation to social and occupational injustices. This project was completed through the Department of Occupational Science and Occupational Therapy in collaboration with the Micah Program of Saint Louis University.  
3:00-5:00 PM  BSC 171-173  Table 04
Ryan Brooks
Philosophy
Faculty Sponsor: Theodore Vitali, C.P.

Quining Goodness
In the spirit of W.V.O. Quine, I challenge the coherence of the distinction between absolute and relative goodness. I do this by first presenting Peter Geach’s argument against absolute goodness and showing that although his argument helps us to learn something important about the nature of goodness, it is ultimately question begging. Nevertheless, I argue that the proponents of absolute goodness cannot take advantage of the hole in Geach’s argument given their ontological commitments. I then demonstrate the incoherence of their commitments, and in light of this, I reformulate Geach’s argument concluding that all goodness is relative goodness.

4:00 PM    BSC 253 B

Gina Wilmott
Philosophy
Faculty Sponsor: Theodore Vitali, C.P.

The Problem of Evil and the Degradation of the Natural World
Does an omnipotent, omniscient and wholly good God exist given the degradation of the natural world? My thesis asks these questions through three main parts of the paper. Part one considers Rowe’s Problem of Evil, and counters Rowe’s argument with Swinburne’s counter argument. Part two considers Aquinas’s Fifth Proof for the existence of God, and Robin Collins’s argument for fine-tuning. Part three will show how all of these arguments relate to the existence of an O God in the natural world.

4:20 PM    BSC 253 B

Andrea Auclair and Catherine Costello
Physical Therapy and Athletic Training
Faculty Sponsor: Tony Breitbach

The Role of Interprofessional Education as a Means to Interprofessional Practice in Athletic Training
The purpose of this presentation is to discuss the importance on Interprofessional education as a pre-professional athletic training student. Furthermore, it goes on to develop into how IPE leads to better interprofessional practice. The evidence of this will be presented through cases encountered by each student during their clinical practic rotations in which Interprofessional practice was key in the treatment of athletes. Lastly, in conclusion, the students will conclude how important Interprofessional practice is for all health care providers, including athletic trainers and the positive benefits that are seen in IPP as a result of the rigors of undergraduate IPE.

3:00-5:00 PM    BSC 171-173    Table 55

Hilary Obert and Amanda Digangi
Physical Therapy and Athletic Training
Faculty Sponsor: Chris Sebelski

5707.52 Miles Between, Equal Urgency for Physical Therapy
We, members of Global Brigades, traveled to 3rd world countries to provide medical relief and education in effort to increase overall health in communities lacking access. While working in the communities, we discovered common issues among the Ghanaian and Nicaraguan people including: poor body mechanics, taxing functional activities, and unfamiliarity with healthy alterations. We, as physical therapists, specialize in body structure and function. With a communal, holistic effort we can lead these developing countries to sustainable development to promote healthy ways of life. Our project will represent the necessity for PT in medical missions, as well as personal benefit.

3:00-5:00 PM    BSC 171-173    Table 54

Joseph Kavanaugh
Physics
Faculty Sponsor: Jean Potvin

A Second Look at Geometric Porosity, as Revealed by Computational Fluid Dynamics (CFD)
Total porosity is the most important design parameter for determining an inflated parachute’s stability, drag and descent speed and other performance measurables. Total porosity is the direct summation of the geometric porosity, which measures the flow through gaps, and of the fabric’s permeability, which quantifies the through-flow past a fabric’s pores and strands. This project has aimed at using Computational Fluid Dynamics simulations of several different models of parachute canopies to show how viscosity affects geometric porosity via the so-called discharge coefficient to explore how viscosity plays out with different parachute shapes and vent locations.

4:00 PM    BSC 253 A

Alex Reinisch
Physics
Faculty Sponsor: David Wisbey

Quantum Computing
New method developed for finding the quality factor of quantum circuits. Using Sonnet modeling software, co-planar waveguides and lumped element kinetic-inductance detectors can be analyzed in exciting new ways. This new method provides a useful tool in our continuing search for quantum circuitry that could be used in a quantum computer.

3:40 PM    BSC 253 A
Heather Brocksmith  
*Political Science*  
Faculty Sponsor: Jason Windett  

**The Effect of Fundraising on Women Gubernatorial Candidates**  
This research examines the sources of fundraising of women gubernatorial candidates compared with men. I argue that fewer women run for public office because they face social and institutional barriers rooted in gender stereotypes that put them at a disadvantage with regards to fundraising. Due to these disadvantages, women have to work harder to receive the same fundraising results as men—often needing more individual contributors to reach the same end amount of contributions. I test my theory utilizing an original dataset of all campaign contributions to gubernatorial candidates from 1992-2010.

3:00-5:00 PM  BSC 171-173  Table 36

Gregory Frank  
*Political Science*  
Faculty Sponsor: Michelle Lorenzini  

**The Globalized Marketplace**  
Technological advancements have fueled the accelerated pace of globalization in the 21st century. This report examines the capacity of resourceful individuals to circumvent state power by establishing non-traditional market places. I contend that unregulated capitalism has motivated these market actors to do business via the Internet unimpeded by state authority. To support this argument a modern day example of evolving globalization will be examined, i.e. the Silk Road which is a website that operates as a de facto black market for contraband material.

3:00-5:00 PM  BSC 171-173  Table 35

Kalina Kutriansky  
*Political Science*  
Faculty Sponsor: Jason Windett  

**Issue-Based Gender Stereotypes and the Competence Gap**  
Prospective voters often utilize gender stereotypes to interpret a candidate's issue position, competence, and political ideology. In addition to responding to heuristic cues, voters are also influenced by the types of issues ("easy" or "hard") available. By surveying political science students, this research examines the relationship between gender and the types of issue-voting as such. The results indicate that the role of gender is uniquely two-fold: on the one hand, it serves as a heuristic cue in determining support for candidates; on the other hand, it serves as a contextual indicator that structures voters' positions and issue responsiveness.

3:00-5:00 PM  BSC 171-173  Table 34

Brain Greivenkamp, Jessica Holdman, Jessica Imlay, Neeraj Joshi, and Robert Sonnenfelt  
*Pre-Law*  
Faculty Sponsor: Mike Skinner  

**Mock Trial: Examining Your Witness**  
Mock Trial is a team based type of competition, where students assume the role of both attorneys and witnesses. A "full" mock trial includes: opening and closing statements, as well as, direct and cross examinations before a panel of judges. Here, students will be conducting the direct and cross examination portions of the trial.

3:00 PM  BSC 256

Jessica Holdman, Amelia Arnold, and Jessica Jones  
*Pre-Law*  
Faculty Sponsor: Dana McWay  

**ADR: The Importance of Mediation**  
Alternative dispute resolution (ADR) includes the dispute resolution processes and techniques that act as a means for disagreeing parties to come to come to an agreement short of litigation. ADR has gained widespread use in the legal profession and includes: negotiation, mediation, and arbitration. Here, students will be conducting a mediation of two disputing parties. In this type of ADR process, one individual will act as the mediator and assist the parties in negotiating a collaborative settlement. Mediations may take place in a variety of settings including: commercial, legal, diplomatic, workplace, community, and family matters.

3:20 PM  BSC 256

Jared Lammert  
*Pre-Professional Health Studies*  
Faculty Sponsor: Jeanne Melton  

**Stress Affects Brain Development in Drosophila Melanogaster**  
Stress has been shown to be a causative factor in depression. In the model organism Drosophila melanogaster, different stressors can be administered either early in life or after five days of maturation. We were able to use a driver which uses green fluorescence protein (GFP) to display both the alpha and beta of the lobes of the mushroom body and the ellipsoid body within the fruit fly brain. Gross morphological changes of these brain areas were measured. The results showed the sex and age of the fly as well as the type of stress can each impact brain development.

3:00-5:00 PM  BSC 171-173  Table 43
Alex Baldwin, Claire Bedell and Kelly Childress
Psychology
Faculty Sponsor: Janet Kuebli

The Impact of Social Support and Relationship Maintenance on the Effectiveness of Substance Rehabilitation
Current rehabilitation options for drug addicts in St. Louis do not address key factors that undermine recovery. Facilities can be up to three hours away, removing patients from their communities. Empirical studies and expert interviews indicate that positive peer support can minimize the possibility of relapse. Our plan includes a small local facility, allowing addicts to maintain employment, community and familial ties. Addicts will undergo a five-step program, during which they must eliminate negative influences and build healthy relationships. This program will ensure addicts have a safe place to pursue sobriety while preventing the deterioration of professional and personal relationships.

3:00-5:00 PM   BSC 171-173   Table 33

Emily Huston-Warren, Imman Musa, and Caroline Vail
Psychology
Faculty Sponsor: Janet Kuebli

Brain Disease? : Influences of Biological Conceptualizations and Locus of Control on Social Stigma
Past research has suggested that social stigma is a primary concern for the mentally ill and their families. The present study examined the interaction between locus of control and biological conceptualizations on three primary facets of social stigma: fear, blame, and social distancing. Participants completed the Rotter’s Locus of Control Scale, the Inclusion of Other in Self Scale, and then read a general description depicting a peer with a mental disorder. The experimental group read an additional description providing a causal explanation of the mental disorder in terms of neurophysiological abnormalities, heredity, and genetics. Participants then completed a social stigma survey to evaluate group differences in levels of social stigma.
Based on previous research, it was predicted that when presented with a biological explanation, those individuals high on external locus of control would demonstrate the greatest social stigma toward the mentally ill due to heightened fear and beliefs of immutability.

3:00-5:00 PM   BSC 171-173   Table 32

Nina M. McDonnell
Psychology
Faculty Sponsor: Janet Kuebli

Perceptions of Stress and Health in a Sample of Black Males
This qualitative, secondary data analysis examines transcripts and audio recordings of 28 focus groups participants involved in a community father support group. Participants were black males, fathers, and volunteers in the program. Researchers were particularly interested in the perception of stress in the participants’ lives, with emphasis on indicated stressors, symptoms of stress, coping strategies, and the effects of stress. Results found reoccurring themes of stress, both causes and symptoms; unique definitions of illness and its causes; depression; and other mental health issues and concerns. Implications for future research and providing quality mental health services to low-income black men are discussed.

3:00-5:00 PM   BSC 171-173   Table 31

Nicolas Nunn-Faron
Public Policy Studies
Faculty Sponsor: Allan Tomey

From the Nation to the Cities
One of the great unsung components of the U.S. Federal Government, is that of the Department of Housing and Urban Development. Charged with the task of creating strong, sustainable, inclusive communities and quality affordable homes for all, it accomplishes a great deal. Yet, none of its undertakings has sustained a longer streak of success than the City Development Block Grant program. This presentation examines what the program accomplishes, as well as how it is affecting the lives of our urban dwellers. Featuring first hand observations and experience, this exhibition is sure to enlighten and educate.

3:00-5:00 PM   BSC 171-173   Table 47

Abby Stewart
Radiation Therapy
Faculty Sponsor: Kathy Kienstra

Proton Therapy: Treating Pediatric Patients Diagnosed With Medulloblastoma
The radiation oncology team is dedicated to minimizing the lethal side effects that radiation poses on the body. Unfortunately, the side effects radiation causes on a child’s body is inevitable. Proton therapy presents great benefits to children diagnosed with medulloblastoma receiving craniospinal irradiation in comparison to children treated with photons.
Research has proven that critical structures were spared when treating CSI with protons instead of traditional photons. The occurrence of a secondary cancer is also less likely with proton therapy than with photon therapy. This poster illustrates the exceptional treatment that proton therapy poses for pediatric patients diagnosed with medulloblastoma.

3:00-5:00 PM   BSC 171-173   Table 05

Meghan Talley
Radiation Therapy
Faculty Sponsor: Sherry Bicklein

Simultaneous PET/MRI: The Future of Radiation Treatment Planning
It is difficult to determine the exact location of gynecologic malignancies (GM). Determining the exact location of a tumor is key for appropriate treatment. The development of simultaneous PET/MRI will improve the accuracy of the treatment planning process for GM. The advantages of PET/MRI will be discussed in relation to the current use of PET/CT. Current studies are underway at Washington University under the direction of Dr. Perry Grigsby to show why simultaneous PET/MRI is superior to PET/CT. In correlation with Dr. Grigsby, this presentation will show why the use of PET/MRI is the future of RO treatment planning.

3:00-5:00 PM   BSC 171-173   Table 06
Allison Voigt  
*Radiation Therapy*  
Faculty Sponsor: Kathy Kienstra  

**SAVI Applicator, Giving Women a Cosmetic Option with Positive Results for Breast Cancer Treatment**  
Breast cancer is quite a challenging cancer to treat, depending on size, location, and nodal involvement. There are options for treatment of breast cancer, but care has to be taken to avoid the surrounding critical structures and not exceed their tolerance to radiation. Being a student in the Radiation Therapy Program at St. Louis University, I am exposed to a variety of radiation treatment methods. I believe that it is necessary to explore options and using methods such as accelerated partial breast irradiation through the SAVI applicator, patients are exposed to a more cosmetic and conserving approach to cancer treatment.

3:00-5:00 PM  BSC 171-173  Table 07

**Alaina Jacobson, Brett Reddick, Brittaney Vaughn, Dane Blackwood, Brian Ritter, Rachael Tamale, Erica Cole, and Bert McGuire**  
*School of Nursing*  
Faculty Sponsor: Sheila A. Leander  

**Robert Wood Johnson New Careers in Nursing 2013**  
The New Careers in Nursing (NCIN) program helps students who are earning a second degree in an accelerated curriculum. Leadership development is essential to the program. This poster presents ongoing leadership development activities in which NCIN students engaged. Activities include attendance at the Sigma Theta Tau International Consortium Dinner, the Grace and William Potter lecture, the inaugural Trudy and Christina Valentine Lecture, doctoral dissertation defenses, and bi-monthly luncheons with faculty in leadership positions in the School of Nursing. In addition, three students attended Missouri Nurses’ Association Advocacy Day in Jefferson City and spoke with legislators about health care issues.

3:00-5:00 PM  BSC 171-173  Table 20

**Anna McGovern, Dane Blackwood, Linfang Bao, Lyly Bui, Holly Currier, Elizabeth D’Agostino, Maxcine Felix, and Kristen Lai**  
*School of Nursing*  
Faculty Sponsor: Samantha Marquard  

**Implementing Early Prenatal Care in the Dutchtown Community**  
High percentages of low birth weight infants and total birth rate of uneducated, low income women in the Dutchtown neighborhood, led to a program focused on providing preconception and prenatal education. Goals include increasing the number of women taking Folic acid before pregnancy begins, increasing the number and consistency of prenatal visits, and decreasing the incidence of low birth weight babies. Interventions include a neighborhood educational campaign, a monthly “mom’s group”, and creating informative pregnancy packets for the health center. Evaluation will take place through surveys of women enrolled in the mom’s group, and by statistical analysis of birth data.

3:00-5:00 PM  BSC 171-173  Table 19

Jana Bersted  
*School of Social Work*  
Faculty Sponsor: Emily McGinnis  

**Birthright Capstone: Crisis Pregnancy & Healthy Relationships**  
I completed my practicum at Birthright, Counseling STL. My social justice goal was to increase awareness and education for clients, students and staff in regards to healthy relationships, domestic violence, societal pressures facing women experiencing an untimely pregnancy and other important issues. This was done through five tasks including designing a healthy relationships flyer, creating and implementing a high school program, co-facilitating a domestic violence group, and conducting a research survey.

3:00-5:00 PM  BSC 171-173  Table 39

Johnny Dolan  
*School of Social Work*  
Faculty Sponsor: Emily McGinnis  

**Counseling at Loyola Academy of Saint Louis**  
My project outlines my year as a counselor at Loyola Academy of Saint Louis. Loyola enrolls at-risk youth with the potential to succeed in high school and college, but are restricted by social or financial circumstances. My tasks involved engaging with students individually, in groups, and in the classroom. Together, we learned about what friendship means, found ways to overcome a learning disability while in class, learned safe and fun ways to spend free time by playing music, and maybe (just maybe!) had some fun while doing it!

3:00-5:00 PM  BSC 171-173  Table 38

Lindsey Weston  
*School of Social Work*  
Faculty Sponsor: Emily McGinnis  

**Justice For All: Advocating for Latino Immigrants in St. Louis**  
Even as Latinos become the fastest growing population in the United States, services for these individuals still lack behind. Latino immigrants frequently face discrimination in the political, economic, and social sectors. For this reason, I developed my social justice goal to promote equal opportunity and quality of life amongst Latino immigrants living in St. Louis through the facilitation of access to information, resources, and services. I created five advocacy tasks with a special focus on empowering women, protecting immigrant laborers, and promoting a safer community. In making information more accessible, Latino immigrants are empowered to recognize their importance in society.

3:00-5:00 PM  BSC 171-173  Table 37
Katie Brungardt  
*Service Leadership Program*  
Faculty Sponsor: Ben Smyth

**Wake Up and Smell the Coffee**  
This presentation focuses on how fair trade and globalization, two forces that usually oppose each other can complement each other. This presentation was inspired by two principle parts of a spring break mission trip: the Kino Border Initiative for Immigration and a company called Cafe Justo which sells fair trade coffee.

3:00 PM  BSC 253 A

Tyler Vachio  
*Service Leadership Program*  
Faculty Sponsor: Ben Smyth

**Service Leadership Program: A Triple Threat**  
Senior service leader Tyler Vachio reflects on his time in the John Cook School of Business program and why a combination of service, leadership, and friendship should lead to a bright future for all students of the program. He served as Co-Chair of the program during his sophomore and junior years at SLU, and has seen the program grow and develop both personally and professionally.

3:20 PM  BSC 253 A

Jessica Imlay  
*Sociology and Anthropology*  
Faculty Sponsor: Martha L Shockey-Eckles

**The Evolution of Hate Crime**  
Hate crimes have long been a staple in American society. Yet it has been recently they have been officially recognized within the Criminal Justice System as violations of human rights and punishable under the law. Beginning in the 1960's the Civil Rights Movement brought attention to the mistreatment of African Americans and other racial and ethnic minorities. This eventually resulted in the passage of laws intended to punish those who violated the rights of others based solely upon one key component—difference. This project examines the evolution of hate crimes to include First Amendment rights violations of homosexuals based upon the key component of difference. It does so by examining state passage of laws, proposed laws, enforcement of laws, and the success and/or failure of reducing hate crimes against homosexuals in the United States.

3:00-5:00 PM  BSC 171-173  Table 42

Stephen Koniak  
*Sociology and Anthropology*  
Faculty Sponsor: Mary Vermilion

**Microdrill Utilization at a Fingerhut Tract Structure, Cahokia Mounds, IL**  
In the summer of 2011, the Saint Louis University Archaeological Field School excavated a small Mississippian structure at the Fingerhut Tract at Cahokia Mounds where a large quantity (n=49) of microdrills were recovered. Microdrills were used for drilling a number of materials and, initially it was thought that the structure was a workshop for the manufacture of microdrills. However, upon analysis, a significant number of microdrills exhibited use wear suggesting that the drilling of shell beads, which were highly regarded during the Mississippian period, or other materials may have been accomplished in this structure. Continued work using experimental archaeology allowed the analysis of the use wear signatures which helped to identify the specific materials being processed at the structure.

4:20 PM  BSC 251 A

Caitlin Price  
*Sociology and Anthropology*  
Faculty Sponsor: Scott Harris

**Political Dramaturgy: A Sociological Analysis of Campaign Politics**  
Erving Goffman's biggest contribution to the field of Sociology was the concept of dramaturgy. Life is a stage, every situation can be analyzed as so with an actor performing for the audience, using props and the setting to portray themes about himself or the play. In my capstone, I will illustrate how this theory can be applied to and possibly help explain politics.

4:00 PM  BSC 251 A

Jennifer Allison  
*Studio Art*  
Faculty Sponsor: Sharon Pollack

**The Process of Decisions**  
Everyday life, and genuine individuals inspire me. The deep connection we have as humans to our universe, and the science of relationships between nature and human beings intrigues me. Sometimes this relationship is mathematical and reveals patterns, or spiritual and reveals inner meaning, or beautiful by being aesthetically pleasing to the senses. "The Process of Decisions" is an exploration of the mental process manifested in color and silk. The condensed fabric as a whole composition resembles the journey through which our mind travels. The end result is an interconnected balance of human thought and emotion; hence, our process of making easy and difficult decisions.

3:00-5:00 PM  BSC 171-173  Table 50
Gabrielle Zenkov
Studio Art
Faculty Sponsor: Nila Petty

Uncomfortable
I love the way one becomes intensely involved in everything that goes into making a ceramic piece. The projects that I work on seem to correlate well with the physicality of clay. I'm currently interested in using the clay to convey something about my personal experiences. Even though the forms are very abstract, clay can represent emotion in its shape, texture, and color. However, no matter how much work is put into it, it still holds its form.

3:00-5:00 PM   BSC 171-173   Table 49

Jessica Canfield
Theatre
Faculty Sponsor: Lou Bird

The Life of a Stage Manager
Each show I stage manage I make a prompt book, a stage manager's Bible. There is a tremendous amount of work that goes into making one. In my book there are two scripts: one with all blocking notes and the other with light, sound, and special effect cues written in. The book has schedules and conflicts for all actors and technicians, props list, contact information, and scene breakdowns. Without one, the show would not be possible. Some people might not see it as art, but for stage managers it is a way to illustrate our dedication to the production.

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Senior Reception with the Jesuits

RSVP at slu.edu/senior to be eligible for a drawing for senior gifts.

Don’t forget to invite the faculty/staff member who has made an impact on your experience at SLU.

Wednesday, May 1, 2013
4:30-6:00 pm
Busch Student Center

Save the Date:

Wednesday, April 23, 2014
Busch Student Center

Senior Legacy Symposium 2014