2014

1100 Rockhurst Road, Kansas City, MO 64110
Table of Contents

Calendar of Events......................................................... 1
Opening Awards and Ceremonies........................................... 2
  Opening Ceremony..................................................... 3
  Academic, Service, and Leadership Awards......................... 4
  Departmental and Program Awards.................................. 4
  President’s Volunteer Service Awards............................... 6
  Student Development Awards......................................... 7
Concurrent Sessions and Alumni Constructions......................... 12
  Rockhurst Outstanding Research Seminar (RORS)................. 13
  STOA (Interactive Demonstrations)................................. 15
  Art Exhibition.......................................................... 17
  Oral Presentations.................................................... 21
  Poster Session 1........................................................ 22
  Poster Session 2........................................................ 30
  Giant Creative Sculpture.............................................. 39
Closing Ceremony and Theater Play..................................... 40
  Closing Ceremony.................................................... 41
  Rent Introduction, Cast, and Crew................................. 42
Thank you!!! .................................................................. 44
Festival of Student Achievement (FOSA) Program
Overview of Monday, April 14

2:45 pm - 4:00 pm
Massman Hall Fishbowl

<table>
<thead>
<tr>
<th>Time</th>
<th>Massman Hall Fishbowl</th>
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<tbody>
<tr>
<td>2:45-3:00</td>
<td>Music</td>
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<td>3:00-3:30</td>
<td>Opening Ceremony</td>
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<td>Guest Speaker:</td>
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<td>Chris Tran, ‘03</td>
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<td>3:30-4:00</td>
<td>Academic, Service,</td>
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<td>Leadership Awards</td>
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4:00 pm - 6:15 pm
St. Ignatius Science Center

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<td>4:00-4:15</td>
<td>Celebration Reception</td>
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<td>Rockhurst Outstanding</td>
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<td>5:15-6:15</td>
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<td>6:15-6:45</td>
<td>Celebration Reception</td>
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6:30 pm - 10:00 pm
Mabee Theater

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<td>Reception</td>
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<td>7:15-7:30</td>
<td>FOSA Closing</td>
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<td>7:30-10:00</td>
<td>Performance</td>
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Opening and Award Ceremonies

Massman Hall Fishbowl
3:00-4:00
**Opening Ceremony**

**3:00-3:30**

**Student MCs:** Adam Daher and Lisa Weeden

**Welcome:** Father Thomas Curran, President of Rockhurst University

**Opening address:** Alumnus Chris Trani

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**Alumnus Chris Trani**

Chris Trani graduated from Rockhurst in 2003 with degrees in Economics, Spanish and Theology. Since then Chris has dedicated his life to being an advocate and voice for the poor and underserved, particularly for undocumented immigrants near our country’s southern border. In 2009 & 2010, Chris traveled to the U.S./Mexico border to film and produce a documentary called *An American House*. The film documents life inside Annunciation House, a nonprofit shelter that services the needs of undocumented migrants in West Texas who would otherwise be hungry and homeless in a foreign land. Chris has served in various roles for many organizations: He has led international service trips for high school students, organized and led American medical teams to conduct clinics in rural communities in Central and South America, and has worked on projects in Juarez, Mexico with Builders Without Borders. In 2009, he became the Director of Hispanic Outreach at Broyles, Kight & Ricafort, Law, and was the principal contact for all Hispanic not-for-profits, small businesses, advocacy groups and religious communities.

Chris currently serves as the Director of Financial Capability for the Center for Economic Progress in Chicago, IL. He and his co-workers strive to help low-income families in the Chicago area to obtain the financial services they need to get ahead. For fun he likes to run, hang out with friends, and do improv in the Chicago comedy scene.
Academic, Service and Leadership Awards 2014
3:30-4:00

MC: Dr. Marcie Swift, Assistant Professor of Physical Therapy and Faculty of the Year 2013

Departmental & Program Awards 2014

Graduate and Professional Studies

Robin Bowen Award for Leadership
Kaitlin McCune and Jennifer Grooms

Ignatian Outstanding Student Teaching Award
Rebecca Haden (Fall 2013)
Shirl Nichols and Hanna Shirrell (Spring 2014)

Helzberg School of Management Awards

Dean’s Academic Excellence Award
Meghan M. Whalen and Amyann Cadwell

Delta Sigma Pi Key Award
Meghan M. Whalen

Research College of Nursing Awards

Missouri League for Nursing Outstanding Graduating Student Nurse Award
Eva Rensing

William V. Longmoor Award
Minh-Anh Pham and Patton Rainey

Rev. Robert F. Weiss Award
Shauna Bauml

Barbara A. Clemence Award
Cassidy Chapman and Alex Linderer

Distinguished Service Award
Cindy Curtin
Departmental & Program Awards 2014

College of Arts and Sciences Awards

American Institute of Chemists Award for Excellence in Biochemistry
Lawrence Rudolf

American Institute of Chemists Award for Excellence in Chemistry
Rachel Westwood

Reva R. Servoss Chemistry Prize
Jillian Thaden and Melody Woods

Edward Kos Award for Academic Achievement in Cell and Molecular Biology
Ahmad Maaz and Gage Rensch

Marshall Andersen Award for Academic Achievement in Macrobiology
Erin Weigel

Barbara Wynne Outstanding Biology Student Award
Leah Grant and Elizabeth Mitchell

Father Aloysius Breen, S.J. English Award
Laura Williams

Bourke Extemporaneous Speaking Medal
Adam Daher

Dowling Oratory Medal
Quentin M. Savwoir

Charles M. Kovich Dramatist Award
Bryant Callahan

Robert W. Miller Speech Award
Elliott Wityk

Michael D. O'Connor Psychology Medal
Kevin Mallon

Rossner Philosophy Medal 2014
Katie Birkenfeld

Scrivener Medal
Matthew Hodapp

William A. Luby Mathematics Medal
Paweł Grzegrzolka
President’s Volunteer Service Awards 2014

Rockhurst University is an official certifying organization for the President’s Volunteer Service Award. The awards are for students who participate regularly in voluntary community service or service-learning and contribute positively to the community beyond campus boundaries through service.

**Bronze Award (100 – 174 hours of service)**
Kelli-Ann Corrao
Hilary Fields
Uyen Hoang
Julie Kramper
Helen Schultz

**Silver Award (175 – 249 hours of service)**
Andrea Haake
Thomas Murray
Megan Schmitt

**Gold Award (Over 250 hours of service)**
Carolina Cruz
Student Development Awards 2014

Social Activities Board Chairman Award (SAB Gavel)
Alison Bennett

Student Senate President (Senate Gavel)
Alan Ratermann

Outstanding Student Organization
Nominees:
Orientation Coordinators
Pasta and Prayer
Student Alumni Association
Student Senate
Social Activities Board
Voices for Justice, Karaoke for a Cause

Outstanding Support for Diversity
Nominees:
Aldair Gongora
International Club

Living the Mission Emerging Student Leader Award
Nominees:
Mackenzie Becker
Claire Boxdorfer
Lauren Hermann
Marie Joubert
Monica Keenan
Meredith Larson
Katie Lockee
Michael Meier
Donald Morris
Katie Robertson
Alli Shambro
Erika Stuchlik
Victoria Zanabonni


**Student Development Awards 2014**

**Living the Mission Advanced Leadership Award**
Nominees:
Zack Zakibe
Matt Beerman
Callie Gercken
Natasha Frost
Aldair Gongora
Ryan Marian
Emily Mazzoni
Jessica Murray
Megan Nitchals
Mary Kate Phillips
Colleen Smyth
Lisa Weeden
Rachel Westwood

**Outstanding Student Leader Award**
Nominees:
Alison Bennett
Claire Burns
Sarah Crudden
Daniel Duggan
Marie Joubert
Emily Mazzoni
Ryan Marian
Anthony Moran
Lynsey Riemann
Emma Schelble
Leandra Stuckey

**Striving For Excellence**
Nominees:
Michael Meier
Rockhurst Transformation Alliance

**Outstanding Community Service**
Nominees:
Finucane Service Project
Hopkins Skip and Run
Martin Luther King Day of Service
Relay for Life
Theta Phi Alpha
**Student Development Awards 2014**

**Hawk of the Year**
Nominees:
Danny Duggan
Christian Lamb
Ryan Marian
Colleen Smyth

**Faculty of the Year**
Nominees:
Faith Childress, Ph.D.
Rocio De la Rosa Duncan, Ph.D.
Anna (Acey) Lampe, Ph.D.
Glenn Young, Ph.D.

**Staff Member of the Year**
Nominees:
Chris Buerke
Geoff Smith
Phyllis Mariner
Cindy Schmersal
Student Development Awards 2014
Description

Social Activities Board Chairperson
The Social Activities Board (SAB) is the primary programming board on campus open to all students, and they are responsible for providing diverse and frequent programs for Rockhurst.

Student Senate President Gavel
Student Senate promotes the interests and concerns of the undergraduate student body and works to improve the experience of all Hawks!

Outstanding Student Organization
The Outstanding Student Organization Award is presented to a student group that has shown exemplary leadership in the areas of student programming, service, community outreach, the improvement of the quality of life on campus, and a commitment to the Rockhurst mission.

Outstanding Support for Diversity
The Outstanding Support for Diversity award is given to one student or student group who has shown continued commitment to diversity programming, promotion, and education.

Living the Mission Emerging Student Leader Award
The Living the Mission Emerging Student Leader Award is presented to two students who are either areshman or sophomores who have shown an excellent amount of leadership throughout the past year through academics, involvement with student organizations, service, and a commitment to the Rockhurst mission.

Living the Mission Advanced Leadership Award
The Living the Mission Advanced Student Leader Award is given to two upper-classmen who have shown an excellent amount of leadership throughout their time at Rockhurst through academics, involvement with student organizations, service, and a commitment to the Rockhurst mission.

Outstanding Student Leader
The Outstanding Student Leader Award annually recognizes students who have gone above and beyond in their service to organizations on campus during their time here.

Striving for Excellence
The Striving for Excellence award is presented to one student or organization that has shown above and beyond improvements, and has transformed and impacted the Rockhurst community in a positive manner.
Student Development Awards 2014
Description

Outstanding Community Service
The Outstanding Community Service Award is presented to one student or stu-
dent organization who has shown continued commitment to the campus or the
surrounding community.

Hawk of the Year
This award is given annually by Student Senate. Voted upon by the student
body, this award is designed to recognize a senior student who has gone above
and beyond in their service to other students and campus organizations during
their time here.

Faculty and Staff Member of the Year
Each year Student Senate gives the Student Body the opportunity to select a fac-
ulty member and staff member of the year through an online voting process.
Concurrent Sessions and Alumni Construction

Science Center
4:30– 6:15
Rockhurst Outstanding Research Seminar
RORS

The Rockhurst Outstanding Research Seminar (RORS) was created in 2010 as a forum for students of all disciplines to present outstanding work in research.

Under a faculty recommendation, nominations for RORS speakers are presented by faculty/student teams to the Undergraduate Research Scholarship and Creative Activities Committee for review. The chosen talks reflect the diversity and excellence of student research at Rockhurst.

RORS talks 2014
SCI 315 4:30-5:45

Diplomas to students and faculty mentors will be awarded in this session by Dr. James Millard, Dean of the School of Graduate and Professional Studies.

Student MCs: Adam Daher and Lisa Weeden

4:30-4:45
Title: Force Production and Kinetic and Kinematic Symmetry in a 40 Yard Dash
Student: Molly Schieber
Advisors: Dr. Nicole Moodie and Mr. Dave Heller, Exercise and Sports Science Department

4:50-5:05
Title: Effects of Citric Acid and Sodium Lauryl Sulfate on Bacteriophages
Students: Elizabeth Mitchell and Heather Ruck
Advisor: Dr. Janet Cooper, biology Department

5:10-5:25
Title: How can libraries, as an institution, provide relevant resources to educators that will motivate learners or the viewing audience?
Student: Gary Wesche
Advisor: Mrs. Sandra Gonsher, GPS

5:30-5:45
Title: Determining Obstacles to Kansas City Haitian Immigrants
Student: Janice Taylor
Advisor: Mr. Jim Maloney, GPS
**RORS Speakers Comment on Undergraduate Research**

How has research changed your approach to academics?

“By participating in undergraduate research, I believe I furthered my education and better prepared myself for my future academic endeavors. Dr. Moodie and Mr. Heller did me a great service by engaging into, and enduring through, my practicum and introducing me into the process of research. I learned more about the field of biomechanics, which I hope to have a career in, in my semester practicum than I did through any of my classes. The research process helped me to pull skills and information that I learned in previous courses to aid in one goal. Furthermore, I believe I have improved my ability to problem solve by engaging in the multidisciplinary approach of researching to form and answer my research question. My research practicum experience has unlocked my curiosity and has given me skills I now apply to my academics and I plan to use in my professional endeavors.”

Molly Schieber

“Undergraduate research has definitely changed our approach to academics. Through being given responsibilities and tasks weekly in a lab setting, we feel that we have received hands-on experience in a way that we have never obtained in the classroom. Our mentor, Dr. Cooper, has been instrumental in answering any questions and going further into microbiology than we ever did in class. Research and applying the scientific method has helped us solve problems in procedures in other science classes, as well as giving us a deeper understanding of pathogens and the way they infect humans. We have learned that trials can be tedious, but accurate record keeping and observations can lead to large improvements from one tiny procedural change. There have been times where we have had to rearrange our schedules and give up a lot of free time for the time-sensitive part of the experiment, but we feel that this time was extremely valuable. We learned how to put experimental procedures to the test, and we feel that this ability will serve us well later on in our careers in the healthcare field.”

Elizabeth Mitchell and Heather Ruck
Stoa (Interactive demonstrations)

SCI 206 4:30-5:15

Certificates to students and faculty mentors will be awarded in this session by Dr. Joseph Cirincione, Associate Dean of the College of Arts and Sciences.

Title: The Effects of Decreased Action Potentials In Axons of Alzheimer's Patients
Students: Kelsey Starman and Lindsey Agee
Mentor: Dr. Nancy Donaldson and Mr. Michael McCoy, Department of Mathematics and Physics

Title: Rotational Motion and Force Analysis of a Prosthetic Lower Lim
Student: Alex Cooper
Mentor: Dr. Nancy Donaldson and Mr. Michael McCoy, Department of Mathematics and Physics

Title: Effects of Decreasing Atmospheric Pressure on Human Body
Student: Navneet Kaur
Mentor: Dr. Nancy Donaldson and Mr. Michael McCoy, Department of Mathematics and Physics

Title: Effects of Large Accelerations on the Human Body
Student: Drew Baum and Tim Brotherton
Mentor: Dr. Nancy Donaldson and Mr. Michael McCoy, Department of Mathematics and Physics

Title: Ballistocardiography
Student: Derrick Jones
Mentor: Dr. Nancy Donaldson and Michael McCoy, Department of Mathematics and Physics

Title: Raspberry-Pi: A Low-Cost Educational Computer System
Students: Anna Blair and Megan Hyde
Mentor: Dr. John Koelzer, Department of Mathematics and Physics
Stoa (Interactive demonstrations)  
SCI 206 4:30-5:15  

Title: Zines  
Students:  
Monique R. Avila  
Mackenzie A. Becker  
Jennifer L. Duffie  
Christopher M. Gates  
Hilary C. Holden  
Elizabeth A. Karcher  
Mark A. McOsker  
Kelly T. Pham  
Jasmin D. Reid  
Timothy M. Rodriguez  
Mark A. Sabaliauskas  
Joshua P. Tols,  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts
Art Exhibition
Science Building East Hall

Certificates to students and faculty mentors will be awarded in this session by Dr. Timothy McDonald, Dean of the College of Arts and Sciences.

Title: PS 41  (24" x 10" x 2")
Price: $100
Student: Ruth Reid
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Mother Nature
Price: $50
Student: Ruth Reid
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Tree Shelf)
Price: nsf
Student: Ruth Reid
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: The Rockhurst Bell Tower  (16” x 6”)
Student: Colleen Smyth
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Gest Some People I Love  (24” x 36”)
Price: nsf
Student: Mackenzie Becker
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled
Student: Blair R. Harms
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: League Cup
Price: nsf
Student: Riley Cook
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts
**Art Exhibition**  
*Science Building East Hall*

Title: Ocean Blue  
Price: $25  
**Student:** Caroline E. Brandt  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Wood Scarf Hanger)  
Price: $40  
**Student:** Anna N. Cheatham  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Paper Sunset)  
Price: $100  
**Student:** Anna N. Cheatham  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled  
**Student:** Michael K. Curran  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Bird House)  
Price: $75  
**Student:** Miranda C. Curry  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Humpty  
Price: $20  
**Student:** Miranda C. Curry, Ruth Reid and Jeremy Kamper  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Namaste  
Price: nsf  
**Student:** Taylor C. Pond and Clay Fletcher  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Candles)  
Price: $10 each  
**Student:** Taylor C. Pond and Clay Fletcher  
**Mentor:** Ms. Leone Reeves, Department of Communication and Fine Arts
**Art Exhibition**  
**Science Building East Hall**

Title: Untitled (Yarn Covered Cross)  
Price: $30  
Student: Jeremy Kamper  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Toilet Seat Cover)  
Price: $30  
Student: Jeremy Kamper  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Mask)  
Price: $50  
Student: Shannon M. Magee  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Woodburned Coasters  
Price: $10 each  
Student: Glen W. Myers, Sean T. Miller and Daniel M Blickhan  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Wooden Box  
Price: $50  
Student: George A. Skevington  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled (Word Clouds)  
Price: $50 each  
Student: Matthew S. Sullivan  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Untitled  
Student: Zachary J. Zakibe  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts

Title: Jungle Dining  
Price: $250  
Student: Riley Cook  
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts
Art Exhibition
Science Building East Hall

Title:  Untitled
Student: Alicea V. Konieczka
Mentor: Ms. Leone Reeves, Department of Communication and Fine Arts
**Oral Presentations**  
**SCI 205 4:30-5:15 and 5:30-6:15**

Certificates to students and faculty mentors will be awarded in this session by Dr. Julie Nauser, Dean of the Research College of Nursing.

**Student MCs:** Adam Daher and Lisa Weeden

4:30-4:40  
**Title:** Vietnam - My home  
**Student:** Quynh Do  
**Mentor:** Dr. Laura Janusik, Department of Communication and Fine Arts

4:45-4:55  
**Title:** Live Like You're Dying  
**Student:** Meredith Larson  
**Mentor:** Dr. Laura Janusik, Department of Communication and Fine Arts

5:00-5:15  
**Title:** The Visitor  
**Student:** Paul Hess  
**Mentors:** Dr. John Kerrigan and Dr. Patricia Cleary Miller, English Department

5:30-5:40  
**Title:** Aquinas on Happiness  
**Student:** Emily Hinsley  
**Mentor:** Dr. Brendan Sweetman, Department of Philosophy

5:45-5:55  
**Title:** Object Manipulation in Chimpanzees  
**Student:** Paul Hess  
**Mentor:** Mr. Stephen Holland-Wempe, A&S

6:00-6:10  
**Title:** Gould's Dogmatism: The Unspoken Thesis of NOMA  
**Student:** Chris Ostertag  
**Mentors:** Dr. Curtis Hancock, Department of Philosophy
Poster Session 1
Science Street 4:30-5:15

Certificates to students and faculty mentors will be awarded during this session by Dr. Cheryl McConnell, Dean of the Helzberg School of Management.

1. Exploration of the Medicinal Compounds in Korean and Chinese Five Flavor Berries
Natasha Frost
Dr. James Chapman, Chemistry Department

Bioassay-guided fractionation is a system of investigation by which a natural product extract is chromatographically fractionated and re-fractionated until a pure biologically active compound is isolated and identified. Our laboratory has been characterizing several Korean medicinal plants using this method to investigate and correlate the identities of the chemical constituents to their biological effects. The extracts have been prepared by traditional Korean methods and the separation of the extracts has yielded fractions which have been subjected to antioxidant, antimicrobial, growth inhibition, and cytotoxic bioassays in order to assist in the identification of the active constituents. Several of the characterized constituents have been previously identified in the literature as medicinally active and elucidation of the identities of the others is under investigation.

2. Fear vs. Familiarity: Factors that Influence Opinions on Guns among College Students
Bryant Callahan
Dr. Jennifer Oliver, Psychology Department

This study examines the relationship between familiarity and opinions regarding guns. It was hypothesized that individuals with low exposure to guns would be more fearful of them than individuals that had some exposure, and that a firearms safety class would decrease fear towards guns. Fifty students from Rockhurst University in Kansas City, Missouri participated by completing a 13-item survey distributed via convenience sampling. Results supported the first hypothesis, showing fear experienced around guns was positively correlated to level of experience with guns. The second hypothesis was unsupported, although a gun safety class was favored over other methods of gun control.
**Poster Session 1**

**Science Street 4:30-5:15**

3. The Effect of Knee Angle and Resistance Placement on the EMG Activity and Isometric Torque Production of Knee Muscles in Patients with Osteoarthritis

**Kelsey Brucks**

Dr. Mohamed Kohia, Physical Therapy Department

The purpose of this study was to determine the optimal resistance placement and knee angle to maximize muscle activity and torque production of the quadriceps and hamstrings in patients with knee osteoarthritis (OA). A total of 8 subjects, mean age 52.4 ± 8.2, with knee OA participated in this study. The quadriceps and hamstrings peak torque of both legs were tested using Biodex Isokinetic Dynamometer at two resistance placements and three knee angles. Surface bipolar electrodes were secured to the vastus medialis, vastus lateralis, rectus femoris, biceps femoris, and semintendinosus/ semimembranosis to record the EMG activity of those muscles during maximal isometric contraction. For the quadriceps isometric torque, there was a significant difference between the 3 angles (P=.031) with 75>45>30. Torque production of the quadriceps was significantly greater when the resistance was placed distally (P=.031). The results of this study suggest that the quadriceps are better able to produce isometric torque at 75° of knee flexion and with a distal resistance placement. During isometric knee flexion, the hamstrings are better able to produce torque at 30°. It is our recommendation to consider this application when strengthening patients with knee OA.

4. Sometimes All We Need Is Someone To Listen

**Frank Smith and Kevin Schulte**

Dr. Laura Janusik, Department of Communication and Fine Arts

We started this research looking into hostage negotiations in a communications context. We found different listening strategies should be more or less effective. Active listening is believed to be the most effective of the group. We found specific strategies like "I" messages that fall under the category of active listening. We then looked for patterns and active listening strategies in hostage negotiation transcripts to see if these strategies were being used and what results came from them.
**Poster Session 1**

**Science Street 4:30-5:15**

### 5. Effect of Salt Blocks on Cursorial Arthropods

**Nicole Nuckolls and Alyson Fuest**  
**Dr. Mary Haskins and Dr. Christina Wills, Biology Department**

Sodium is an important abiotic resource and a key mineral in mammalian ecophysiology. As a result, salt and mineral blocks are frequently used to supplement the diets of large mammals and numerous studies have documented the impact of salt blocks on mammalian populations. However, few studies have examined the impact of salt blocks on cursorial arthropods in the same habitat. The objective of our study was to determine if the presence of salt blocks impacted the diversity of cursorial arthropods in a grassy unmowed field in Jackson County, MO. Four transects each measuring 40 m were established and salt blocks were placed at each end of the two experimental transects. Nine sixteen ounce red solo cups, with white interiors, containing approximately 30 ml of propylene glycol, were used within each of the transect lines. Traps (n=36) were left in the field for ten days in May and again in August. Arthropods were then sorted, identified, and statistically analyzed to determine if the salt blocks influenced prey capture. The arrangement of the pitfall traps, proximity to the salt blocks and statistical analysis of the data will be presented.

### 6. The Danger of Noisy Toys

**Colleen Kinsella**  
**Dr. Pam Hart and Ms. Shatonda Jones, Communications and Science Disorders Department**

The purpose of this study was to analyze the impact of the noise level in children's toys for ages of infancy to seven years old. To achieve this purpose, we initially determined the noise accuracy of four different sound level meter apps. We tested and chose the most reliable app. With this app, we measured the noise level of 25 different toys. With this information, we provided helpful information to parents.
Esraa Aly
Margaret Bjelica, RCN

Breast cancer is a disease that affects millions of women around the world yearly, and treatment has typically revolved around 3 main options: surgical management, radiation, and systemic therapy (or any combination of the three). Recently, new treatment options have been introduced to help better patient outcomes, including but not limited to, chemoprevention, anti-angiogenesis drugs, and targeted therapies (including Kadcyla). This study explores the pathophysiology of breast cancer, and evaluates both current and exploratory treatment regulations.

8. The Relationship Between Bilingual Experience & Raising Bilingual Children
Nicole Alfonsin
Dr. Jennifer Oliver, Psychology Department

The purpose of the current study was to examine the relationship between the experience students at Rockhurst University have in learning a second language and the likelihood that they advocate bilingualism for their future children. A ten-question survey was distributed to 51 undergraduate students. The researcher hypothesized that undergraduate students will be more likely to advocate bilingualism for their future children if they had learned a second language themselves. The findings did not support the hypothesis. Whether or not a college student has experience with a second language themselves, students overall seem to be indifferent toward teaching future children a second language.
Poster Session 1
Science Street 4:30-5:15

9. Analysis of the Five Components of Language in Speech and Language Mobile Device Applications
Shelby Roberts, Sharon Hyatt, Veronica Immethun, and Stefani Paul
Dr. Pam Hart, Ms. Kathy Ermgodts and Ms. Shatonda Jones
Communications and Sciences Disorders Department

The purpose of this study was to analyze speech and language applications designed to promote early language development for quality of content across the five components of language. The five components of language include semantics, syntax, morphology, phonology, and pragmatics. To accomplish this, fifty free applications were analyzed and categorized across the five components. Results and implications will be presented.

10. A Content Analysis of Social Media Support Messages by Parents of Children with Autism
Kristina Whisler, Laura VanBiber, Jaclyn Bolzenius, and Amanda Turnbull
Dr. Pam Hart and Ms. Shatonda Jones, Communications and Sciences Disorders Department

The occurrence of Autism is 1 in 88 children. Families are not only turning to physicians and medical providers for answers, they are now turning to social media for information and support. The purpose of this study was to analyze the postings of parents of children with Autism on public support sites. A content analysis was conducted to explore themes and domains represented across these postings.

11. An Analysis of the Quantity and Quality of Early Literacy Experiences in four Children's Television Programs
Rebecca Davis and Kelsey Carver
Dr. Pam Hart, Communications and Sciences Disorders Department

Phonological awareness is an important building block of early literacy skill development. Several children's television programs advertise content that promotes early literacy development through phonological awareness. The purpose of this study was to evaluate the quantity and quality of these early literacy events in comparison to evidence-based recommendations related phonological awareness skill development.
Poster Session 1  
Science Street 4:30-5:15

Bless Less and Mandy Merkel  
Dr. Pam Hart and Ms. Kathy Ermgodts  
Communications and Sciences Disorders Department

The purpose of this study was to determine how news coverage of sports related traumatic brain injury has changed across the past twenty years. To accomplish this, the researchers conducted a content analysis of the past twenty years of news coverage using internet resources. Both researchers read and coded all relevant articles to identify common domains and themes. Overall, there has been an increase in coverage and an increased demand from parents and consumers to improve the safety of youth sports.

13. An Analysis of Noise Levels in Children's Toys  
Laura Hampel  
Dr. Pam Hart, Communications and Sciences Disorders Department

The purpose of this study was to analyze the noise levels in children's toys for ages of infancy to seven years old. To achieve this purpose, the researchers initially determined the accuracy of four different sound level meter apps in comparison to a real sound level meter. The most reliable app was then used to assess the noise levels of 25 popular toys. Results and implications will be presented.

14. Examiner Fatigue and Ability to Concentrate in an Objective Structured Clinical Examination for Physical Therapist Students  
Dawn Shine, Alicia Barnard and Vanessa Kamp  
Dr. Marcie Swift, Dr. Ellen Spake, and Dr. Mohammed Kohia  
Physical Therapy Department

The purpose of this study is to find out if examiner fatigue and ability to concentrate has any effect on scoring students in an Objective Structured Clinical Examinations (OSCE) given to physical therapist students. A total of 16 physical therapist students from Rockhurst University participated in an OSCE that was scored by 16 examiners. The examiners were asked to rate their perceived level of fatigue and ability to concentrate at the midway and endpoint time of the OSCE using a visual analog scale. Data was analyzed using multi-way
ANOVA within groups. There was a significant difference between midway and end point times when comparing 1) faculty and clinicians (p=0.013), 2) examiners using paper vs. electronic score sheets (0.021) and 3) clinicians using paper vs. electronic scores sheets (p=0.046) which demonstrates an increase in fatigue over time. Most of the examiners in this study demonstrated significant fatigue over time with exception to faculty examiners. Overall, less fatigue was experienced in examiners who scored student performance using an electronic score sheet, especially clinician examiners.

15. Writing for Change: How the Kansas City Star Portrays Local Non-Profit Organizations
Jessica Sachs
Dr. Laura Janusik, Department of Communication and Fine Arts

With the introduction of the third sector into our economy, it has been a challenge for the public to understand how to address these new organizations. With a lack of understanding for a sector that focuses on building a profit that can be turned around to help fund a mission, the public turns to the media to help make sense of these new businesses and how they operate. However, the media is also learning how to address nonprofit organizations as it contains the most rapid growth in our economy. Since the sector of nonprofit organizations is so new and diverse, little research has encompassed how print media has taken to portray these organizations. A content analysis of how the media addresses nonprofit organizations in light of their business practices or their charitable work will be conducted to understand the way in which the Kansas City Star portrays three local nonprofit organizations.

16. The Effect of the Urban Heat Island on Human Mortality in Kansas City
Robert Peterson
Dr. Christina Wills, Biology Department

Our project is analysis of the urban heat island effect on human mortality in Kansas City. We analyzed mortality and climate data to show how the two are correlated. We then used the correlation between the increased temperature values found within the city and mortality to make recommendations for urban planning to decrease the urban heat island effect. Observing that the urban environment is heterogenous as are many ecosystems in the world, we use this information to delve into the role of flora and fauna in human mortality in the urban environment.
17. Student Understanding Pre and Post Intervention
Kelsey Yochum
Dr. Mairead Greene, Department of Mathematics and Physics

Student Understanding Pre and Post Intervention is an ongoing research project that is designed to help identify students' understanding of mathematical concepts. To do this a scale was designed to rate test problems based on what is required to complete a problem and how much past experience students have had with certain types of problems, this is called the Conceptual Understanding Weighting System (CUWS). To help students better identify what they were learning, a number of prompts were added to the end of all their course activities, which are discussed and filled out in class. We then investigated whether these prompts impacted student understanding by comparing scores on different levels of exam questions before these prompts were added and after.

18. The Relationship Between Coefficients of Polynomials With All Real Roots
Pawel Grzegorzolka
Dr. Keith Brandt, Department of Mathematics and Physics

This research explores the relationship between the coefficients of the 2nd and 3rd degree polynomials with all real roots. The investigation utilizes simple calculus techniques such as Lagrange's multipliers. The results of the research for the 2nd and 3rd degree polynomials with all real roots are presented and include the proof for the discriminant condition for the existence of 2 real roots for the 2nd degree polynomials and the relationship between certain coefficients of the 3rd degree polynomials.

19. Does the medium effect the message?
Samuel Beckett and Colin Rohde
Dr. Laura Janusik, Department of Communication and Fine Arts

Our topic of choice for the upcoming research project is whether or not the medium effects and or shapes the message. What this asks in essence is whether or not certain forms of communication (reading, hearing, and watching) can effect what is attempted to be portrayed by the sender of the message. Our investigation introduced a random selection of students to the three distinct mediums and measured their responses on the overall message and its persuasiveness.
Certificates to students and faculty mentors will be awarded during this session by Dr. Timothy McDonald, Dean of the College of Arts and Sciences.

20. The Effects of Motor Imagery on the Musculoskeletal Flexibility of Youth and Young Adults
Rachel McCort, (Presenter) Mellony Meister, Julie Guinn, Matthew Ganser and Kristina Baumann
Dr. Catherine Thompson, Physical Therapy Department

This study explored the impact of various types of practice (both physical and motor imagery - a mental process) on musculoskeletal flexibility (MF) of youth and young adults. A multi-group pre-post design involved males and females (ages from 12-25 years) randomly assigned to four groups: control (C), physical practice (PP), motor imagery MI, and MI + PP. All participants were measured pre-and post-intervention on the following: Sit and Reach Test, hamstring ROM, Vividness of MI Questionnaire, and Vividness of MI for Flexibility. Interventions included: (1) C and PP viewed a 5 min. video featuring random facts; (2) P also stretched in long-sitting following contract-relax preparation; (3) MI viewed and mentally practiced the Sit and Reach Test, and (4) MI + PP performed the combined practice. When comparing results of the Sit and Reach Test between experimental groups and the control group: PP performed 60% better than C; MI performed 73% better than C; and MI + PP performed 76% better than C. These results suggest that MI and MI + PP have a greater effect on the MF of youth and young adults than PP alone or C. MI alone may enhance MF and has a greater effect when combined with PP.

21. Evidence for Post Traumatic Growth Following Sports Injury
Jordan Laney
Dr. William Haefele, Psychology Department

Recent research has indicated that some people will experience positive outcomes following traumatic events. This study seeks to provide evidence for Post Traumatic Growth following sports injuries. Subjects included 26 college students, who all had a history of sports injury. The results of this study indicate that 17 out of 26 subjects had small to moderate growth following their sports injury.
Poster Session 2
Science Street 5:30-6:15

22. The Reliability of a Commercial Accelerometer Unit during Anaerobic Testing of Competitive Athletes
Molly Schieber
Dr. Nicole Moodie, Exercise and Sport Science Department

Accelerometers are a tool that can be used to objectively measure frequency, duration, and intensity of a physical activity and exercise. An easily accessible tool such as an accelerometer could be beneficial to a widespread range of athletes. The aim of the present study was to test the reliability of designated G-force measures obtained by a commercial accelerometer. Fourteen competitive athletes (10 male, 4 female) volunteered to attend one anaerobic testing session. At the beginning of the session athletes completed a required warm-up consisting of a 5 minute jog, stretching of major muscle groups, and two progressive 50 yard sprints. After the warm-up the accelerometer was placed on the athletes' back between the shoulder blades and anchored at two points with adhesive. Athletes then completed two 40 yard dashes with a 5 minute rest interval between trials. Data from the accelerometer unit was analyzed using software created by the unit developer. Based on the G-forces recorded by the accelerometer unit, the software created explosion, right-left symmetry, efficiency, and propulsion scores. Paired samples t-tests determined no significant differences between trial 1-trial 2 scores for explosion \[ t(13)=0.186, p<0.05 \], right-left symmetry \[ t(13)=0.181, p<0.05 \], efficiency \[ t(13)=-1.984, p<0.05 \], and propulsion \[ t(13)=-1.969, p<0.05 \]. The lack of significant difference in these measures shows the test/re-test reliability of the Impulse accelerometer.

23. Navigational Differences Based on Gender
Caitlin Staed, Jenifer Sargent, and Luke Murphy
Dr. Steven Brown, Psychology Department

The purpose of our experiment is to determine how navigational skills differ between genders. In the study 20 participants were selected by convenience (ten male and ten female). Each participant was given a series of five directions, either spatial or landmark-based. Participants were then given a distraction task for one minute, then handed a map to highlight the dictated verbal directions. Participants were given two minutes to highlight the correct route. After the two minutes, the participants received the alternate directions. The same procedure was repeated for the second map. The participants were evaluated based on the accuracy of their highlighted path compared to the verbal instructions. Each correct street highlighted was considered one point out of five. Half of the participants (five males and five females) received the spatial directions first, while the other half received the landmark-based directions.
**Poster Session 2**  
**Science Street 5:30-6:15**

The spatial directions were constant throughout the experiment, as well as the landmark-based directions. However, the categories of directions differed from one another. We hypothesize that males will recall spatial directions more accurately than landmark based directions, while women will recall landmark-based directions more accurately than spatial directions. The results and implications of our experiment will be discussed.

**24. The Effects of Ethnicity and Pregnancy on Willingness to Help**  
Marissa Schuett  
Dr. Steven Brown, Psychology Department

We were interested in the effects of pregnancy and ethnicity of one's companion on how quickly store clerks would offer help. Pairs of female college students visited local stores. One member of the pair, whom was Caucasian, appeared pregnant or non pregnant while the second member was either Caucasian or Hispanic. We hypothesized that a pregnant female with a Hispanic friend would receive the least amount of help. Our results indicated our hypothesis was partially correct.

**25. Effects of Type of Instruction on Performing a Physical or Cognitive Task**  
Daniel McTague Kessler, Sean Campbell, and Luke Narke  
Dr. Steven Brown, Psychology Department

The purpose of our experiment was to examine how different delivery methods of instruction affect performance on either a cognitive task (sudoku) or a physical test (squat). Group Written was given written instructions and then asked to perform either the cognitive task or the physical task. Group Visual was given a diagram of instructions and then asked to perform either the cognitive or physical task. There were 40 participants involved with 10 participants for each combination of instruction and task. We hypothesized that the written instruction would be more effective for the cognitive task, but the visual instructions would be more effective for the physical task. The results of our experiment will be discussed with our poster presentation.
**Poster Session 2**

**Science Street 5:30-6:15**

26. **The Effect of Music on Recall**

Savannah Brazelton, Meghan Ruzicka, Sydney Fairfield, and Kelsey Boehm

Dr. Steven Brown, Psychology Department

The purpose of our experiment is to examine the effects of vocal and non-vocal music on the recall of objects and words. In our study we chose 40 students by convenience and gave them either a picture or a list of words, both sheets had the same objects on them just in different forms. One minute was given to look at the stimulus sheet and a vocal or instrumental version of the same song was played while subjects completed the task. Once the minute was up we asked the subjects to fill out basic information about themselves as a distractor task. One minute was also given for this task. Next the subjects were given two minutes to write down as many objects from the picture or the list of words that they could remember. We hypothesize that the subject will recall more objects when given the stimulus sheet made of words rather than pictures and while listening to an instrumental rather than vocal version of a song. The results will be discussed later during our presentation.

27. **Effects of Interference on Cognitive Processing**

Lucas Kurz, Scott McMeekin, and Libby Karcher

Dr. Steven Brown, Psychology Department

The purpose of our experiment was to examine the effects of interference on cognitive processing. In this experiment 40 participants were chosen by convenience and randomly assigned to groups. The groups were split into hard versus easy word searches while listening to vocal versus instrumental music. Participants were given a time limit of five minutes and the number of words found for each participant was counted. We hypothesized that the participants listening to the vocal music will have disrupted performance compared to the instrumental music. Our results and conclusion will be discussed with our poster presentation.

28. **Analysis of Top Health Magazines**

Sydney Alexander

Dr. Risa Stein, Psychology Department

Under Dr. Stein's guidance, I have been working on this project throughout this academic year. Our research aims to analyze a full year subscription to the top 5 most popular health magazines for methods of weight loss via dieting. We have composed a clear and concise method for coding magazines to determine what each weight loss article has to say about dieting. We've broken down the
**Poster Session 2**

**Science Street 5:30-6:15**

major components of diet advice into food groups that are endorsed and cautioned, methods of dieting that are endorsed or cautioned, and major diet plans (such as Jenny Craig or Weight Watchers) that are endorsed or cautioned. We will then compile all results into a database in order to compare articles within each issue, within each specific magazines, and between magazines. Such analysis will shed light on whether individuals receive consistent diet related weight loss advice or whether weight loss messages are inconsistent. We will also be able to note the number of diet for weight loss articles per magazine and whether any specific approach (e.g., low-calorie approach, low-fat approach) to dieting for weight loss appears more frequently in one magazine than in others.

**29. Memory & Encoding Specificity: A Literature Review**

Sheeran Salfity

Dr. Steven Brown, Psychology Department

The purpose of my poster presentation is to explore our current understanding of working memory and encoding specificity, with a focus on emotion words and their effect on episodic memory. The poster will first describe the concepts of working and episodic memory as well as the process of encoding specificity. Next, the influence of emotion and non-emotion words with these memory systems will be explained. Various brain structures observed to be involved with these memory processes will also be included in my analysis. Lastly, the poster will provide a synopsis of current research that relates to the processing of emotional words and their impact on memory. The implications of these findings will be related back to our current understanding of the role emotion plays in memory processing.

**30. Video Game Realness and Profanity**

Andy Eilers

Dr. Laura Janusik, Department of Communication and Fine Arts

In order to try to find a link between vulgarity and playing video games, several different game message boards were analyzed for foul language used. My hypothesis is that video games increase the tendency for a player to use profanity in their life. It is already known that video games can cause gamers to feel more aggressive after playing violent games, so I believe that this relates to an increase of vulgar language. Message boards from multiple games on different platforms and ratings were scanned for profanity, offensive terms, and personal attacks on others. Games will be compared to other titles from as long as ten years ago, or even the same game that has been updated over the years. This is to determine if the more realistic the game, the more effect it has on the gamer.
31. How Generational Differences in Code-Switching Correspond to Identity Differences
Dania Kneib
Dr. Laura Janusik, Department of Communication and Fine Arts

Studies have shown that code-switching, or language alternation, in the conversations of bilinguals, can affect formation and enhancement of a bilingual speaker's identity. Early research on this subject was dominated by the 'language-reflects-society' perspective, meaning that social structure is seen as primary influence and language practices as secondary (Cashman, 2005 & Gafaranga, 2005). Ideas about identity have changed over the years in fields like cultural studies, sociology, anthropology, and so thus so too have approaches to identity changed in sociolinguistics, which includes approaches to bilingual identity. As such, ideas about how to research identity as it relates to code-switching have changed as well, with Conversation Analysis (CA) becoming a more popular approach for studying this phenomenon thanks to recent broadening of its scope to include social context as well as sequential context (Cashman & Williams, 2008). Most significant to this study, Cashman (2005) used CA to examine the relationship between social identities and conversational structure (code-switching, language preference), finding that language alternation in conversation may be seen as constituting and changing identity and not simply reflecting it. In this study, I examine early bilingualism and its effect on the formation of identity for bilingual speakers that grow up learning two languages simultaneously: the heritage language of their parents' culture and the majority language of the culture in which the children are being raised. Using a CA approach, I intend to analyze code-switching practices in naturally occurring conversations among bilingual family members of three Arabic (Syrian)-American families living in the U.S. Specifically, and like Gafaranga (2005), I examine the relationship between social structure (social identities such as ethnicity and group membership) and conversational structure (code-switching, or language alternation) using data from videotaped bilingual talk-in-interactions.
Poster Session 2  
Science Street 5:30-6:15

32. An Investigation into the Sums and Products of Real Numbers  
Melissa Hopfinger  
Dr. Derrick Hart, Department of Mathematics and Physics

We conducted an investigation into the sums and products of finite sets of real numbers. Our research aims to identify a lower bound for the size of some of these finite sets using mathematical tools such as geometry and utilizing rather new research from the mathematics community to provide a sound proof for our conjecture.

33. Distinguishing Hostile from Negative Words  
Andrea Haake  
Dr. William Sturgill, Psychology Department

Previous research in our Cognition and Neuroscience lab used both negative and hostile words (with positive and neutral words) to determine if the category of word affected memory performance in an encoding specificity paradigm. The problem is that words were assigned to category on the basis of ratings on a negative to positive scale, but it did not differentiate negative and hostile words—they all were negative. This research used four 9-point emotion scales to rate the words. Results showed that hostile words differed severally from the negative words. It is important to know that the words differ in emotional profile. The next step will be to see if the difference affects memory performance.

34. Portrayal of African Americans in Super Bowl Advertisements  
Elizabeth Desloge, John McDougal, Matthew Stacks, and Maggie Hummel  
Dr. Laura Janusik, Department of Communication and Fine Arts

We looked at how African Americans are portrayed in Super Bowl commercials. Our group examined the national commercials from Super Bowl 2013 and 2014. We calculated the number of times they appeared in commercials as well as their role in the commercial.
**Poster Session 2**

**Science Street 5:30-6:15**

35. Chemical Ecology: Evaluating Household Products to Determine their Effectiveness in Deterring Ants

Kasey Lierz and Haley Bettlach

Dr. Mary Haskins and Dr. Christina Wills, Biology Department

Ants are a common problem both in and around homes and are notoriously attracted to hummingbird feeders. For safety reasons, many people are reluctant to use commercial insecticides. Therefore we decided to test a variety of anecdotal stories about ant deterrents which other people have found effective alternatives. In the lab we tested 15 household substances reported to have ant-deterrent properties, and the seven most effective substances were then field tested. Cups were baited with 20% sucrose and suspended from shepherds' hooks and each hook was further "baited" by pouring sucrose onto the base of each hook. Within 10 hours ants established an active trail on the shepherd's hooks and were feeding on each solution. Deterrent containers used to hold water were filled with chemicals, and then placed between the hooks and sucrose solutions. Containers served as physical barriers, while the substances inside served as both physical and chemical barriers. Field trials were conducted in two-week intervals with daily monitoring of ant movement. Ants successfully navigated the container's physical barrier, while three chemicals (clove, baby powder, and curry) were effective long-term deterrents to ants in both laboratory and outdoor settings (p < 0.05), and may be preferable to hummingbird water moats which require constant monitoring due to evaporation.

36. An Analysis of University Students' Ability to Gather Meaning from Quantitative Health Information

Becky Squiers

Dr. Laura Janusik, Department of Communication and Fine Arts

I plan to investigate, by use of surveys, the level of health numeracy in college students on Rockhurst University's campus. Health numeracy is an individual's ability to understand and find meaning in quantitative health information regarding risk factors, probabilities, medical terminology and statistics. I plan to draw correlations, or lack thereof, between students' perceptions of their ability to interpret this data and their actual health numeric ability. Students will complete a three part survey consisting of pre- and post-testing their own levels of confidence in understanding the information at hand. The interference test will be one to measure their actual level of accuracy in understanding health numerics.
Poster Session 2  
Science Street 5:30-6:15

37. Midwest Trust  
Joseph Kenney  
Dr. Keith Brandt, Department of mathematics and Physics

38. Mathematical Models in Medicine  
Lauren Hartman  
Dr. Paula Shorter
Giant Creative Sculpture
Outside of 206  4:30-5:15

Alumni participate in our celebration of Academic Excellence and Leadership at the FESTIVAL OF STUDENT ACHIEVEMENT!

This part of the program is intended to inspire our current students with examples of excellence and leadership. Alumni will join us for the assembly of our giant creative sculpture (6ft+ diameter) with the theme “Learning, Leadership and Service”.

Closing Ceremony and Theater Play

Mabee theater
7:15-10:00
Closing Ceremony
7:15-7:30

MC: Dr. Susan Proctor

Closing remarks: Dr. Nancy Debasio, President of the Research College of Nursing

Rockhurst’s FOSA by the numbers

147 Student presenters
34 Faculty mentors
More than 20 disciplines represented

91 submissions

Graduate and undergraduate, A&S, GPS, HSOM, and RCN representation
"Rent is about a community celebrating life in the face of death and AIDS at the turn of the century."—Jonathan Larson, author

"Rent is Real," dramaturge for the original production, Victoria Leacock Hoffman says of the script. At the end of her article she tells us, “In the early hours of January 25, 1996, after the final dress rehearsal for Tent…Jonathan died, alone in his apartment, from a dissecting aortic aneurysm. He never knew that Rent would indeed change the American musical theatre. But I [we] knew he would be proud that it did.”

In the song “La Vie Boheme,” author Larson cried out that, “the opposite of war isn’t peace, it’s creation.”

Rent is about people on the edge of poverty, on the edge of the AIDS pandemic, at the turn of the millennium, trying to learn the lessons of love, community, passion, and compassion. The play is truly an opera based loosely on Puccini’s opera La Boheme, which has been called the greatest love story of all time.

The story is about love, sex and rock and roll. It is not a play for the very young. There is harsh language, violence, and sexual insinuation—no nudity.
Directed by ................................................. Susan Proctor
Musical Direction ........................................ Torn Kedera
Choreography ............................................. David Beker
Costume Design ........................................... Adip Rome
Set Design .................................................. Paula Pynn
Light Design .............................................. Allen Drueck
Hair and Makeup Design ................................ Bridget Wolfe
Sound Design .............................................. Alex Santalaris

Stage Crew:
Stage Manager ............................................. Deanne Mason
Assistant Stage Managers .................................. Mollie Wahr
Dance Captain ............................................. Chelsea Williams & Meg Wachbros
Lighting Board Operator ................................ Macarena Becker
Microphones & Sound Board Operator .............. Alex Santalaris
Backstage .................................................... Michael Doyle
......................................................... James Fitzar
......................................................... Matthew Sullivan

The Band
Piano and Keyboard: Torn Kedera
Lead Guitar: Mitch Speigel
Rhythm Guitar: Eric Markham
Bass: Frank Amerciolini
Drums: Paul Hess
Thank you!!!

Thank you, to our anonymous donor for his generous support of the Festival of Student Achievement.

Thank you, to all parents, friends and alumni who came and joined this celebration.

Thank you, to all student awardees for their hard work and dedication to our mission of learning, leadership and service.

Thank you, to all contributing students and faculty for showcasing academic excellence at Rockhurst.

Thank you, Chris Trani for traveling all the way from Chicago to deliver the opening address.

Thank you, to all administrators for their encouragement and participation.

Thank you, to the Undergraduate Research, Scholarship and Creative Activities Committee for all their hard work organizing this event.

Thank you, to Physical Plant, Computer Services, Sodexo, and all the people that made the day possible from “behind the scenes”.
