# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents</td>
<td>1</td>
</tr>
<tr>
<td>Schedule Overview</td>
<td>2</td>
</tr>
<tr>
<td>Poster Presentations</td>
<td>3</td>
</tr>
<tr>
<td>Oral/Creative Presentations</td>
<td>8</td>
</tr>
<tr>
<td>Abstracts</td>
<td>11</td>
</tr>
<tr>
<td>Index of Participants</td>
<td>21</td>
</tr>
<tr>
<td>Time</td>
<td>Course</td>
</tr>
<tr>
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</tr>
<tr>
<td>3:00 PM</td>
<td>Philosophy</td>
</tr>
<tr>
<td>3:20 PM</td>
<td>Art History</td>
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<tr>
<td>3:40 PM</td>
<td>Sociology and Anthropology</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Economics</td>
</tr>
<tr>
<td>4:20 PM</td>
<td>Honors</td>
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<td>4:40 PM</td>
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<tr>
<th>Time</th>
<th>Course</th>
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<tr>
<td>3:00 PM</td>
<td>Latin American Studies</td>
</tr>
<tr>
<td>3:20 PM</td>
<td>Physics</td>
</tr>
<tr>
<td>3:40 PM</td>
<td>Nutrition and Dietetics</td>
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<tr>
<td>4:00 PM</td>
<td>Nutrition and Dietetics</td>
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<tr>
<td>3:00 PM</td>
<td>Theatre</td>
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<td>3:20 PM</td>
<td>Criminology and Criminal Justice</td>
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<td>3:40 PM</td>
<td>Medical Humanities</td>
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<td>4:00 PM</td>
<td>Education and Public Service</td>
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<td>4:20 PM</td>
<td>English</td>
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<tr>
<td>4:40 PM</td>
<td>English</td>
</tr>
</tbody>
</table>
POSTER PRESENTATIONS

NASA Mars Sample Return Mission
Christian Barbosa, Chirag Doshi, John Lauber, Kendra Patton,
Aerospace and Mechanical Engineering Department of Parks College

2020 E-GA (Electric-General Aviation) NASA ARMD Design Challenge
Chris Berry, Matthew Hansen, Lyn Ratliff,
Aerospace Engineering

Lysine-to-Methionine Mutation Alters Histone Protein Interactions
Jim Gallogly
Biology

Ascorbate Recycling in Skeletal Muscle Cells
Emma Dwyer
Biology

The Interaction Between Adenoviral E1A Proteins and the DNA Repair Regulatory Protein KAP1
Ajay Chatrath
Biology Department

Thermally Responsive Biogel
Niko Temofeew
Biomedical Engineering

Long-term Non-invasive Blood Glucose Monitoring System
Megan Depew-Brady, Amitha Gade, Stephanie Wolf, Lauren Wayman
Biomedical Engineering

Vulcan - The Prosthetic Hand Project
Morgan Elliott, Sean Falconer, Matt Genova
Biomedical Engineering

Effect of Cinnamaldehyde on Bacterial Growth and Biofilm Formation
Amanda Ivie, Marco Rossi
Biomedical Laboratory Science

Inhibition of Biofilm Formation by Compounds Derived from Green Tea, Licorice and Garlic
Erica Zak, Kayla Hoerschgen,
Biomedical Laboratory Science

SLUdapest: A Cultural Immersion in Budapest
Edina Ahmetovic, Ali Arnold
Boeing Institute of International Business
POSTER PRESENTATIONS

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

Global Immersion Experiences
Stephanie Sanchez
Boeing Institute of International Business

Alkyne Passivation of Aluminum Nanoparticles via PIERMEN
Evan Lloyd
Chemistry

2,8-dihydroxydibenzothiophene as a novel precursor of atomic oxygen in solution
Hailey Shoemaker
Chemistry

Investigating the Redox Ability of NADH and FAD When Complexed to Aptamers
Paige Gruenke
Chemistry

Water for Komucala
Jimmy Canning, Katie Healy, Brittany Kendrick, Brian Robertson
Civil Engineering

The Voices of Belize: The Effects of Belizean History on the Education System
Ellie Cash
College of Education and Public Service

Sulfur Dioxide Air Pollution in Jefferson County
Anne Charles
College of Public Health and Social Justice

Multiplatform Journalism
Emily McDermott
Communication

Lexical Diversity: Is NDW Enough?
Victoria Cardone
Communication Sciences and Disorders

Effect of Language Impairment and Socioeconomic Status on Academic Vocabulary Knowledge
Lauren Mueller
Communication Sciences and Disorders

Language Performance of Children with and without Older Siblings
Katelyn Seroka
Communication Sciences and Disorders
### POSTER PRESENTATIONS

<table>
<thead>
<tr>
<th>3:00 – 5:00 p.m.</th>
<th>Busch Student Center 171 – 173</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Student Advertising Campaign</strong> <strong>Pizza Hut</strong></td>
<td><strong>Communications</strong></td>
</tr>
<tr>
<td>Rachel Moylan, Anna Patterson, Lauren Seiler, Ryan Spencer, Ian Sullivan, George Theotokatos</td>
<td></td>
</tr>
</tbody>
</table>

| **AIAA Design Build Fly** | **Department of Aerospace and Mechanical Engineering** |
| Joshua Beltz, Shane Gannaway, Chris Heyman, Jacob Kappes |

| **VSTOL Air Metro** | **Department of Aerospace and Mechanical Engineering** |
| asmine Bitanga, Deanna Lim, Emily Rorke, Dorien Villafranco |

| **The Importance of Student Attitudes in Sexual Misconduct Prevention** | **Department of Communication** |
| Jessica Park |

| **Project Identity** | **Department of Occupational Science and Occupational Therapy** |
| Victoria Marks |

| **The Effect of Movement Pattern Training on Hip and Knee Angles, Function and Pain in Females with Patellofemoral Pain** | **Department of Physical Therapy** |
| Anna Di Staulo |

| **The Analysis of Theater for Youth productions used to generate and improve discussion about Bullying Awareness/Prevention** | **Education** |
| Liza Basso |

| **Haiti Power Harness** | **Electrical and Computer Engineering Department** |
| Keith Cargill, Emily Hart, Teresa Lanuza |

| **BIOM** | **Electrical Engineering** |
| Sasha Abrego, Katharine Foster, Shabnam Majidi, Saahil Sheth |

<p>| <strong>Autonomous Indoor Mapping System</strong> | <strong>Electrical Engineering</strong> |
| Cody Alger, David Balassi, Simon Nguyen, |</p>
<table>
<thead>
<tr>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher Purpose. Greater Good.</td>
<td>Kimberley Kogol, David Rutledge</td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
</tr>
<tr>
<td>Value of PET/CT in Evaluation of Post-Radiotherapy Changes in Bone Metastases</td>
<td>Daniel Nalini</td>
</tr>
<tr>
<td>Medical Imaging and Radiation Therapeutics</td>
<td></td>
</tr>
<tr>
<td>Assessing Liver Standard Uptake Value (SUV) in Patients with Congestive Heart Failure (CHF) versus those without CHF using Positron Emission Tomography (PET) as an Imaging Modality</td>
<td>Ara Gharabagi</td>
</tr>
<tr>
<td>Nuclear Medicine Technology</td>
<td></td>
</tr>
<tr>
<td>The effect of pulmonary arterial hypertension on Standardized Uptake Values (SUV) of the liver in PET/CT imaging</td>
<td>Junaid Yasin</td>
</tr>
<tr>
<td>Nuclear Medicine Technology</td>
<td></td>
</tr>
<tr>
<td>Breakfast Cereal: A full serving of Fruits and Vegetables in every bowl</td>
<td>Jerry McClure</td>
</tr>
<tr>
<td>Nutrition and Dietetics</td>
<td></td>
</tr>
<tr>
<td>Parents: Role Model Good Nutrition to Your Kids</td>
<td>Lauren Hoffman, Kimberly Wessel, Jerry McClure</td>
</tr>
<tr>
<td>Nutrition and Dietetics</td>
<td></td>
</tr>
<tr>
<td>Reflections on Use of the Inventory of Reading Occupations as Student Researchers</td>
<td>Sarah Friedman, Kathleen Goldman, Meagan Paulsen</td>
</tr>
<tr>
<td>Occupational Science and Occupational Therapy</td>
<td></td>
</tr>
<tr>
<td>Global Brigades</td>
<td>Emma Fogler, Theresa Gilmore, Erin Pluchino, Grace Yao</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td></td>
</tr>
<tr>
<td>Watching the Docket: Monitoring St. Louis City Domestic Violence Court</td>
<td>Britt Bergquist</td>
</tr>
<tr>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>The Generation Gap of Electoral Participation: Why Young Americans Don't Vote</td>
<td>Hannah Schmitz</td>
</tr>
<tr>
<td>Political Science</td>
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<tr>
<td>Left-Right Identification in the European Union</td>
<td>Sarah Gianni</td>
</tr>
<tr>
<td>Treatment of Rhabdomyosarcoma: Photon Therapy vs. Proton Therapy</td>
<td>Samantha Schauwecker</td>
</tr>
<tr>
<td>Accelerated Partial Breast Irradiation: SAVI vs. MammoSite for the Treatment of Breast Cancer</td>
<td>Kathryn Kress</td>
</tr>
<tr>
<td>Professional Writing in Nursing: Rising Above the Challenges</td>
<td>Adrienne Macchietto, Emily Schroepfer, Katherine Wilkerson</td>
</tr>
<tr>
<td>Becoming A Comprehensive Stroke Center</td>
<td>Nicole Costales, Madeleine Distler, Amanda Harada, Allyson Keth-Refisteck, Stephanie Lippoli, Alexandra Mathews, Jayme Schmuelling</td>
</tr>
<tr>
<td>Revitalizing Safe Connections on Campus</td>
<td>Chloe Owens</td>
</tr>
<tr>
<td>A New Approach to Food Insecurity with College Students</td>
<td>Mary Grace Owens</td>
</tr>
</tbody>
</table>

Allison Lesch  
Studio Art
ORAL/CREATIVE PRESENTATIONS

3:00 p.m.

BSC 251 A
Linking Disease to Climate Change: a Study of Malaria, Ebola and HIV
Kathleen McGuire
Sociology and Anthropology

BSC 251 B
By Underground to a Modern Woman
Allison Lesch
Art History

BSC 253 A
Middle Knowledge and Stump’s Redemptive Suffering Theodicy
Kunjwn Patel
Philosophy

BSC 253 B
Mental Illness in the American Criminal Justice System: A Review and Policy Proposal Concerning Incarcerated Rates of the Mentally Ill
Rebecca Israel
Criminology and Criminal Justice

BSC 253 C
Not Yet Colorblind: A Study of a Misconceived Post-Racial Society and Racial Perceptions in the United States & Ecuador
Megan McFarland
Latin American Studies

laugh.

Katy Keating
Theatre

3:20 p.m.

BSC 251 A
Impact of Rearing Strategy and Abnormal Behaviors on Social Bonds in Zoo-Living Chimpanzees
Rosalind Cuneo
Sociology and Anthropology

BSC 251 B
Myth, Ritual, and the Labyrinth of King Minos
Nicole Tessmer
Art History

BSC 253 A
St. Louis FC: Leveraging Tradition and Building Lifelong Fans
Bridget Reczek, Julie Hendrickson, Gavin Christopher, Thomas Hanlon, Kelsi Dilger, Malvika Sampath
Sports Business

BSC 253 B
The School to Prison Pipeline: Failed Zero Tolerance Policies Criminalizing America's Youth
Lauren Magladeno
Criminology and Criminal Justice
Investigating Possible Continuous Analogs to Grover’s Search Algorithm
John Cavin
Physics

3:40 p.m.

Mortuary Practices at the Inception of Christianity in Ireland
Annie Slusher
Sociology and Anthropology

SIFIs and Their Macroeconomic Impact
Charles Ahlstrom
Economics

Social Media Implementation Strategy: Gateway PGA REACH Foundation
Torie Boehm, Michelle Hill, Maddie Lena, Meg O’Neill, Tanner Rabb, Danielle Stickler, Nicole Stubblefield
Sports Business

Diverse Approaches in Healthcare: Shadowing in Three Continents
Aish Uraizee
Medical Humanities

Summertime Pavlova
Olivia Beard
Nutrition and Dietetics

4:00 p.m.

Color Blind America: The Myth of a Post-Racial Criminal Justice System
Joe Stein
Sociology and Anthropology

When the Rings Bring Ruin: The Negative Effects of Hosting the Olympics on Long-Term Tourism
Kelsey Jackson
Economics

FIAT Retreat
Jackie Bova
Honors

An Interpersonal, Community, and Institutional Level Analysis of the Effects of Communication Concerning Mental Health in the College Context
Mary Miller
Medical Humanities
<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Department/Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:20 p.m.</td>
<td>BSC 253 C</td>
<td>Student as Sleuths: Creative Medical Investigation (CMI) Project</td>
<td>Gretchen Landgraf</td>
<td>Nutrition and Dietetics</td>
</tr>
<tr>
<td></td>
<td>BSC 251 A</td>
<td>Merit or Inherit?: The Role of Nonmerit Factors in Financial Success</td>
<td>Zack Grummer-Strawn</td>
<td>Sociology and Anthropology</td>
</tr>
<tr>
<td></td>
<td>BSC 251 B</td>
<td>Legalizing Unauthorized Immigrant Parents: An Economic Analysis and Policy Discussion</td>
<td>Claire Mispagel</td>
<td>Economics</td>
</tr>
<tr>
<td></td>
<td>BSC 253 A</td>
<td>Comparing Health Care Systems/Practices</td>
<td>Reema Agarwal</td>
<td>Honors</td>
</tr>
<tr>
<td></td>
<td>BSC 253 B</td>
<td>Performing Blackness: Critical Performance Pedagogy in the Secondary Social Studies Classroom</td>
<td>Mariah Bender</td>
<td>College of Education and Public Service</td>
</tr>
<tr>
<td>4:40 p.m.</td>
<td>BSC 253 D</td>
<td>My Food and Nutrition Philosophy</td>
<td>Holly Faivre</td>
<td>Nutrition and Dietetics</td>
</tr>
<tr>
<td></td>
<td>BSC 251 B</td>
<td>The Rationing of Healthcare</td>
<td>Cami Kasmerchak</td>
<td>Economics</td>
</tr>
<tr>
<td></td>
<td>BSC 253 A</td>
<td>Effectiveness of HIV Testing through Social Networks among Young, African American, Men who have Sex with Men in St. Louis</td>
<td>Nebu Kolenchery</td>
<td>Honors</td>
</tr>
</tbody>
</table>
ABSTRACTS

Chris Berry, Matthew Hansen, Lyn Ratliff
Aerospace & Mechanical Engineering
Faculty Sponsor: Sanjay Jayaram

2020 E-GA (Electric-General Aviation) NASA ARMD Design Challenge

With the rising cost of fossil fuels and the push to reduce greenhouse gas emissions, the potential for electric-powered general aviation aircraft is being researched. Several complications exist in the design of electric aircraft; however, the largest problem to overcome is the energy storage system. Battery technology is not advanced enough to store sufficient amounts of power for flight performance comparable to that of internal combustion engines. The Dynamo electric aircraft addresses this issue using an up-and-coming technology: the lithium-air battery. Furthermore, to achieve a range that is similar to current internal combustion engine general aviation aircraft, the Dynamo features a tailless, hybrid wing-body design to maximize the lift to drag ratio, thereby maximizing the range.

3:00-5:00 PM  BSC171-173  Table 2

Jasmine Bitanga, Deanna Lim, Emily Rorke, Dorien Villafranco
Aerospace and Mechanical Engineering
Faculty Sponsor: Dr. Sanjay Jayaram

VSTOL Air Metro

In highly-populated metropolitan areas, geographic bottlenecks result in heavy traffic congestion. With a growing population, there is a pressing need to address the traffic density. The vertical/short take-off and landing Air Metro system (VSTOL) will transport civilians within these confined areas. The vehicle is designed to carry 9 passengers a maximum commute distance of 50 miles. The design of the vehicle will incorporate ducted fans within the wings of the aircraft to achieve vertical flight, and thrust vectoring rear turboprops. It is the vehicle’s goal to substantially reduce the typical commute time within confined urban metropolitan areas.

3:00-5:00 PM  BSC171-173  Table 4

Nicole Tessmer
Art History
Faculty Sponsor: Deb Douglas

Myth, Ritual, and the Labyrinth of King Minos

The presentation uses an art historical approach to explain how the Labyrinth of King Minos can be connected to a coming of age ritual in ancient Greece. According to ancient mythology, King Minos built a perplexing labyrinth to house the Minotaur, a monstrous creature to which his wife had given birth. Each year, the myth states, seven girls and seven boys were chosen to enter the labyrinth as tributes to become food for the Minotaur. It was not until Theseus entered the labyrinth, and killed the Minotaur that it could be considered a place to leave your childhood behind. Once inside, the children wrestled with their demons, experienced a rebirth, and finally, emerged as adults ready to take their places in society. The myth of the labyrinth can thus be understood as a rite of passage or a coming of age ritual in ancient Greece. It was this mythological labyrinth that Sir Arthur Evans believed he had discovered at the Palace of Knossos, located just a few miles from the city of Heraklion on the island of Crete.

3:20-3:40 PM  BSC 251 B

Ajay Chatrath
Biology
Faculty Sponsor: Dr. Thole

The Interaction Between Adenoviral E1A Proteins and the DNA Repair Regulatory Protein KAP1

The E1A gene of human adenovirus type 5 codes for two mRNAs (12S and 13S. In this study, we determined that the 13S-coded protein binds to KRAB-associated protein-1 (KAP1), a cellular DNA repair regulatory protein. Our results suggest that the 13S-coded E1A protein binds specifically to KAP1. Infection with the adenovirus mutant that expresses only the 13S mRNA induced phosphorylation of KAP1 at serine 473 and serine 824. The phosphorylated form of KAP1 was associated with the E1A protein. The binding of E1A with KAP1 may reduce the level of phosphorylated KAP1 that is free to participate in DNA repair.

3:00-5:00 PM  BSC171-173  Table 32
Emma Dwyer  
**Biology**  
Faculty Sponsor: Jonathan Fisher  
**Ascorbate Recycling in Skeletal Muscle Cells**  
Specialized cells have been shown to export antioxidants such as Vitamin C into the environment outside a cell. Since 40% of the body’s Vitamin C reservoir is found in muscle, we hypothesized that skeletal muscle cells also have the capability to export Vitamin C. After testing for the presence of specific Vitamin C activity outside the cell, we concluded that muscle cells do export Vitamin C. We also found that glucose transporters played a role in supporting the antioxidant cycle. Antioxidants are important in staving off metabolic disease, and the data suggest that muscle could be prominent in this process.

3:00-5:00 PM  BSC171-173  Table 31

Megan Depew-Brady, Amitha Gade, Stephanie Wolf, Lauren Wayman  
**Biomedical Engineering**  
Faculty Sponsor: Dr. Gary Bledsoe  
**Long-term Non-invasive Blood Glucose Monitoring System**  
Although blood glucose monitoring systems have come a long way, more advances can still be made. Current blood glucose monitoring systems involve finger pricking, causing disturbances in daily lifestyle. A better approach would involve a wearable and minimally invasive device that continuously displays glucose levels. The inner surface of the device transmits a low current through the skin that draws out glucose molecules from the blood proportionally to total blood glucose concentration. Thus, once the sensors are properly calibrated, an estimate of blood glucose levels can be displayed. An alarm goes off if readings are outside of a predetermined range.

3:00-5:00 PM  BSC171-173  Table 31

Hailey Shoemaker  
**Chemistry**  
Faculty Sponsor: Dr. Ryan McCulla  
**2,8-dihydroxydibenzothiophene as a novel precursor of atomic oxygen in solution**  
Dibenzothiophene-s-oxides (DBTOs) are the first known aqueous precursors of O(3P).

3:00-5:00 PM  BSC171-173  Table 31

Quantum yields of O(3P) (~0.1-0.25). Here we present the dianion salt of 2,8-dibenzo[oxadibenzophenone]oxide as a novel precursor of O(3P) in aqueous solution, as well as studies of O(3P) as an oxidant of alkanes and alcohols. The synthesis of 2,8-dibenzo[oxadibenzophenone]oxide has been reported in the literature, but we report here a more concerted synthesis. We expect that a streamlined production of a water-soluble, high-yielding O(3P) precursor will increase the efficiency of future studies of cellular redox regulation.

3:00-5:00 PM  BSC171-173  Table 34

Evan Lloyd  
**Chemistry**  
Faculty Sponsor: Steven Buckner  
**Alkyne Passivation of Aluminum Nanoparticles via PIERMEN**  
Here we report on the use of terminal and internal alkynes to passivate aluminum nanoparticles. The resulting nanocomposites maintain active Al contents of at least 70% throughout a 6-week period of air exposure. The nature of the capping mechanism was explored through gas chromatography-mass spectroscopy. After comparing the retention times and splitting patterns of the caps to a commercially available polymer, poly(1-decene), it was determined that the capping monomers were being polymerized at the metal surface. Due to the absence of any known polymerization initiators, it was concluded that the metal core was acting as the initiator via PIERMEN.

3:00-5:00 PM  BSC171-173  Table 33

Mariah Bender  
**College of Education and Public Service**  
Faculty Sponsor: Dr. Lauren Arend  
**Performing Blackness: Critical Performance Pedagogy in the Secondary Social Studies Classroom**  
This project is an autoethnographic study that investigates how a black teacher’s positive racial identity can support positive racial identity development in adolescent students. Methods included critical performance pedagogy and an analysis of the influence of the intersectionality of gender and race on conversations surrounding race, power, and oppression in the content field of social studies. The expected outcomes are that black students will gain racial literacy and a new perspective on racism internationally and domestically.

3:00-5:00 PM  BSC171-173  Table 31

4:20-4:40 PM  BSC 253 B
Rachel Moylan, Anna Patterson, Lauren Seiler, Ryan Spencer, Ian Sullivan, George Theotokatos
Communication
Faculty Sponsor: Jennifer Korte

National Student Advertising Campaign Pizza Hut
The National Student Advertising Competition sponsored by the American Advertising Federation is an annual competition that pits advertising students from across America against each other in an effort to create the most comprehensive and effective integrated marketing campaign for a select client. This year the Saint Louis University Department of Communication has six students participating for their capstone work, the client is Pizza Hut. The purpose of this presentation is to convince Pizza Hut executives to choose our campaign as the most capable of fulfilling their objective of making Pizza Hut the top choice for customers who order pizza digitally.
3:00-5:00 PM BSC171-173 Table 60

Victoria Cardone
Communication Sciences and Disorders
Faculty Sponsor: Dr. Sara Steele
Lexical Diversity: Is NDW Enough?
Number of different words (NDW) in a language sample is a commonly-used, evidence-based technique for assessing lexical diversity. As a quantitative measure, NDW is limited in its ability to capture other aspects of lexical ability, such as the use of rare or advanced words. This project aimed to identify multiple measures of lexical ability and to determine whether these measures were correlated. Audio language samples of preschool children were transcribed and analyzed for language productivity, lexical density, lexical diversity and lexical sophistication. Results were interpreted within a clinical framework for effective assessment of vocabulary.
3:00-5:00 PM BSC171-173 Table 38

Katelyn Seroka
Communication Sciences and Disorders
Faculty Sponsor: Dr. Hwa-Froelich
Language Performance of Children with and without Older Siblings
Language development may be influenced by birth order. Younger children may receive less parent-directed speech but may benefit from hearing parentese directed to older siblings and older siblings’ language models. Thirty-three younger children were recruited with no (15), one (10) or two (8) older siblings. General and pragmatic language performance were compared and correlated with number of older siblings. Group differences in pragmatic language performance between children with no and two older siblings approached significance. For children with two older siblings, receptive and expressive language performance were related to parent education and income. Pragmatic language was related to receptive language.
3:00-5:00 PM BSC171-173 Table 36

Rebecca Israel
Criminology and Criminal Justice
Faculty Sponsor: Dr Dyan McGuire
Mental Illness in the American Criminal Justice System: A Review and Policy Proposal Concerning Incarcerated Rates of the Mentally Ill
This literature review and policy proposal examines the long-term impact of the deinstitutionalization of the mentally ill resulting in their over-representation in America’s jails and prisons. Examining the qualitative and quantitative research on the incarcerated mentally ill along with an evaluation of theory, history, and current data, this review demonstrates the harmful effects that incarceration has on the mentally ill and stresses the need for a new policy. This review challenges the current assumption that there is no better alternative to dealing with the mentally ill by introducing a multi-level policy that involves federal, state, and local governments.
3:00-3:20 PM BSC 253 B

Charles Ahlstrom
Economics
Faculty Sponsor: Dr. David Rapach
SIFIs and Their Macroeconomic Impact
In the wake of the 2007-2008 Global Financial Crisis, the Dodd-Frank Act of 2010 has called for the designation of Systemically Important Financial Institutions (SIFIs), which are financial institutions so large and interconnected, that their individual failure can threaten the health of the financial sector and thus, the overall economy. Pursuant to the Act, SIFIs face extensive regulation policies in order to reduce the systemic risk they generate. Using data that quantifies systemic risk, I have conducted several regression analyses on key macroeconomic indicators of the US and the remaining G7 countries to determine systemic risk’s affect on the economy.
3:40-4:00 PM BSC 251 B
Cami Kasmerchak  
*Economics*  
Faculty Sponsor: Heather Bednarek  

**The Rationing of Healthcare**  
Healthcare is a limited resource with high demand. Therefore, healthcare is rationed in different ways throughout the world. Each approach has welfare implications resulting from the use of these different forms of rationing. While the major focus of this research is on the United States, methodologies from other countries are considered for comparative analysis purposes. Part of this research consists of a theoretical economic analysis through the lens of public finance and health economics. This includes consideration of the differences between medical effectiveness and cost effectiveness as the basis for rationing.  

4:40–5:00 PM  BSC 251 B

Liza Basso  
*Education*  
Faculty Sponsor: Lauren Arend  

**The Analysis of Theater for Youth productions used to generate and improve discussion about Bullying Awareness/Prevention**  
The purpose of this research is to study the effects of theatrical works written and performed for youth audiences with the intent to raise awareness and create prevention programs in school, in regards to bullying. This study uses six short plays compiled into a performance entitled The Bully Plays, which toured to six locations around the Saint Louis, MO/Fairview Heights, IL area. At each location, after the performance, a talkback was conducted to discuss bullying and prevention/coping techniques. Observations during talkbacks, student comprehension questionnaires, and survey questions for administrators were all methods of research used in this study. The expected outcomes perceived were 100% positive and noted to have sparked discussion and greater understanding about bullying. Administrators would have to make a consistent effort in the aftermath of this show to develop a bullying prevention program and continue discussion about this topic.  

3:00–5:00 PM  BSC171-173  Table 10

Sasha Abrego, Katharine Foster, Shabnam Majidi, Saahil Sheth  
*Electrical and Computer Engineering*  
Faculty Sponsor: Dr. Kyle Mitchell  

**BIOM**  
The Blood Ion Optimization Measurement device is designed to provide a simple, non-invasive method of measuring the electrolytes of an individual. The main focus of this project will be measuring the sodium concentrations within the blood. The system will implement an extended gate field effect transistor (EGFET), which uses a capacitive semiconductive sensor. The device aims at detecting voltage changes within a sodium solution, which will translate into a concentration value based on a calibration curve. Although the device is in its preliminary stages with this project, it can definitely grow to become a feasible and useful product.  

3:00–5:00 PM  BSC171-173  Table 10

Srimukhi Vunnam  
*English*  
Faculty Sponsor: Dr. Anne Stiles  

**Theology and Moral Management: A Study of Asylums in Victorian England**  
Theology advanced the shift to moral management of the insane in Victorian England. Previously, people deemed insane were housed in crumbling asylums and subjected to treatments like bleeding. Early Victorian interpretations of Christianity insinuated insanity was God’s punishment and condoned such treatments. However, Christians began viewing madness as communications of the powerless. Tuke’s asylum, based on Pinel’s moral management theory, corresponded with Quakerism. Despite criticisms for using mental – instead of physical – restraints, moral management was appealing because it improved asylum conditions. Although it did not cure insanity, moral management set the stage for more humane treatments of the mentally ill.  

4:40–5:00 PM  BSC 253 B
**FIAT Retreat**
The FIAT Retreat (Faith, Identity, Adventure, Trust) seeks to help young women build confidence rooted in faith through outdoor adventure activities. Drawing from various fields of study, the content of this retreat is based on research into the social issues that affect the confidence of young women today. Noting the connection between overcoming physical challenges and overcoming mental challenges, adventures such as rock climbing, ropes courses, and hiking can be a starting point for building confidence. Above all, this confidence flows from personal identity in relationship with God.

4:00-4:20 PM  BSC 253 A

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**Edina Ahmetovic, Ali Arnold**  
*International Business*

Faculty Sponsor: Danielle Stevens

**SLUdapest: A Cultural Immersion in Budapest**
This poster presentation will focus on the international business global immersion course to Budapest, Hungary in March 2015. We will analyze the business and cultural environment in Hungary and how it fits into the European Union, as well as, reflecting on our experience abroad.

3:00-5:00 PM  BSC171-173  Table 54

**Nalini Daniel, Alice Martino, KayKay Sab**  
*Investigative and Medical Science*

Faculty Sponsor: Uthayashanker Ezekiel

**Chemoresistance-Induced Epithelial-Mesenchymal Transition of a Colorectal Cancer Cell Line**
Invasive and metastatic characteristics of carcinoma cells in primary tumors are mediated by epithelial-mesenchymal transition (EMT). Studies have shown that chemotherapy and radiation therapy lead to formation of resistant cells by transdifferentiation into EMT. To study chemoresistance-induced EMT, colon cancer (DLD-1) cells were treated with increasing concentrations of oxaliplatin (anti-cancer drug) to develop a chemo-resistant cell line (DLD-1 OxR). These resistant cells show properties of EMT by morphologic and cell migration measures. Previously, we showed that curcumin, a phytochemical derived from turmeric, inhibited DLD-1 proliferation: its effect on DLD-1 OxR suggests inhibition as well.

3:00-5:00 PM  BSC171-173  Table 57

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**Erica Zak, Kayla Hoerschgen,**  
*Investigative and Medical Sciences*

Faculty Sponsor: Rita Heuertz

**Inhibition of Biofilm Formation by Compounds Derived from Green Tea, Licorice and Garlic**
Prevalence, severity and antimicrobial resistance of bacterial infections are ever-increasing. Biofilms are implicated and are microbial aggregates that adhere to each other or inert surfaces (e.g., medical devices) through a self-secreted polymeric biomass. Pseudomonas aeruginosa and Staphylococcus aureus are pathogens that produce biofilms and are showing increased prevalence, severity and antimicrobial resistance. Plant-derived compounds with published anti-bacterial actions derived from green tea, licorice, and garlic were assessed for biofilm formation. Glycyrrhetinic acid from licorice plant had no effect on biofilm formation, allicin and diallyl disulfide from garlic inhibited while epigallocatechin gallate from green tea augmented biofilm formation in concentration-dependent manners.

3:00-5:00 PM  BSC171-173  Table 12

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**Kimberley Kogol, David Rutledge**  
*Marketing*

Faculty Sponsor: Dr. James Fisher

**Higher Purpose. Greater Good.**
The “Higher purpose. Greater Good.” branding has been in use since November 2012 and helps articulate the University’s core purpose and essence to prospective students and the community as Jesuit institution of higher learning. Developed with input from a cross-section of University stakeholders, this branding is used in differentiating SLU from other institutions. Our case study examines the process of adopting this new brand message, the implication of this branding on advertising and marketing, and the overall effectiveness and future of this branding.

3:00-5:00 PM  BSC171-173  Table 56

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**Aish Uraizee**  
*Medical Humanities*

Faculty Sponsor: Anne Stiles

**Diverse Approaches in Healthcare: Shadowing in Three Continents**
Though advancements in medicine are ever expanding, so are limitations. Therefore, doctors today need vital skills to overcome these limitations in resources and other areas, which come through exposure to a variety of healthcare systems and patients from different socioeconomic backgrounds. Through shadowing
in healthcare systems around the world, such as Ghana, the United Kingdom, and the United States, I observed how limitations affected healthcare delivery and how physicians and patients overcame these limitations. Lastly, I will discuss how observations like these can shape the future of the American healthcare system.

Kathryn Kress
Medical Imaging and Radiation Therapeutics
Faculty Sponsor: Kathy Kienstra and Sherry Bicklein

Accelarated Partial Breast Irradiation: SAVI vs. MammoSite for the Treatment of Breast Cancer
Breast cancer is one of the most common types of cancer among women in the United States. Accelerated partial breast irradiation (APBI), a breast radiation therapy technique during which focused radiation is delivered to a specific part of the breast after lumpectomy, has gained popularity as an alternative to adjuvant whole breast irradiation. APBI with high dose rate brachytherapy offers an excellent compact course of radiation treatment due to its limited number of fractions and less invasive technique when compared to other methods of removing breast tumors. An abundance of devices have been developed for APBI treatment; because interstitial brachytherapy requires the use of multiple catheters, widespread patient acceptance has been limited and more reproducible and patient friendly devices are developed and evaluated. The purpose of the project was to discuss and compare two popular devices for administering APBI with high dose rate brachytherapy: MammoSite balloon and Strut-adjusted volume implant (SAVI). The project compares the benefits and limitations of both devices. The research evaluated cohort studies, case reports, and meta-analyses to investigate dose properties, cosmetic results, and patient eligibility of both brachytherapy devices. The research concluded that both methods for delivering APBI are well tolerated by patients; and while MammoSite implants are widely accepted and technically much easier to perform, SAVI appears to increase eligibility for APBI with a better dose distribution.

James Fabiszak, Hae Shim, Monica Stumpf
Medical Laboratory Science
Faculty Sponsor: Tim Randolph

Development of Methods to Quantify Hemoglobin, Complete Blood Counts and Hemoglobin A1c for Diagnostic Use in Developing Countries
Optimization of the copper sulfate method of hemoglobin quantification was one research project. Descent time of a blood droplet through a CuSO4 column was measured and gravitational blood delivery system was improved to reduce drop shape and volume variability. Another project consisted of determining blood counts by using custom-designed glass devices into which blood samples were aspirated and centrifuged. Device design appropriate for separation of blood by relative density into erythrocyte, leukocyte and platelet bands was identified. Future studies will correlate band intensities with total cell counts. A third project was validation of Boditech instrumentation for HbA1c quantitation.

Junaid Yasin
Nuclear Medicine Technology
Faculty Sponsor: William Hubble, Crystal Botkin

The effect of pulmonary arterial hypertension on Standardized Uptake Values (SUV) of the liver in PET/CT imaging
Pulmonary Arterial Hypertension (PAH) is a condition where patients have elevated blood pressure in the pulmonary arteries. This study examined the effect that PAH may have on Standardized Uptake Values (SUV) of the liver obtained in PET/CT imaging. It is hypothesized that PAH may be indicative of an underlying hepatic disorder. 19 patients were retrospectively
reviewed along with 19 control patients. The SUV of the liver and the Mean Pulmonary Artery Diameter, to assess severity, were recorded for each patient. The results indicated that PAH, regardless of severity, did not affect the SUV of the liver obtained in PET/CT imaging.

3:00-5:00 PM  BSC171-173  Table 17

Olivia Beard  
*Nutrition and Dietetics*  
Faculty Sponsor: Whitney Linsenmeyer

**Summertime Pavlova**  
Over the past four years of classes and training in the Nutrition and Dietetics department’s Food Innovations & Entrepreneurship track I have developed my own personal philosophy of what food and cooking means to me. I believe that enjoying food goes above and beyond just the taste – food should be just as pleasing to our eyes as it is to our taste buds. Working to make our food more presentable may actually make it taste better. This cooking demonstration will show how a pavlova, a dessert with just a few simple ingredients, can quickly become a summertime crowd pleaser.

3:40-4:00 PM  BSC 253 D

Jerry McClure  
*Nutrition and Dietetics*  
Faculty Sponsor: Katie Eliot

**Breakfast Cereal: A full serving of Fruits and Vegetables in every bowl**  
Breakfast cereals are common among children and can provide a significant source of nutrients to start their day. Most cereals currently marketed toward children are full of sugar and highly processed with little or no good sources of nutrients. Creating a minimally processed cereal that provided a whole serving of fruits and vegetables in each serving was our goal. A recipe was written, prepared and tasted that fit the criteria. The cereal received great reviews for taste, appearance and texture. The determined outcome is that the cereal tasted and looked good, while packing in key nutrients for growing children.

3:00-5:00 PM  BSC171-173  Table 19

Holly Faivre  
*Nutrition and Dietetics*  
Faculty Sponsor: Whitney Linsenmeyer

**My Food and Nutrition Philosophy**  
Having studied Nutrition and Dietetics and Culinary Arts over the past four years, I have developed my personal philosophy surrounding food, cooking, and nutrition. I believe food should be prepared utilizing pure and wholesome ingredients. The cook should be fully involved in the transformation of her ingredients and gain an appreciation for her labor. I believe the cook has an obligation to uphold her health and the health of others through the use of nutrient rich ingredients and the promotion of moderation. This cooking demonstration showcases my philosophy through the preparation of grapefruit curd – a tart, creamy, mouthwatering treat!

4:20-4:40 PM  BSC 253 D

Sarah Friedman, Kathleen Goldman, Meagan Paulsen  
*Occupational Science and Occupational Therapy*  
Faculty Sponsor: Lenin Grajo

**Reflections on Use of the Inventory of Reading Occupations as Student Researchers**  
The Inventory of Reading Occupations (IRO; Grajo, Candler & Boyer, 2014) is an assessment tool of children’s reading participation based on the Occupational Adaptation theory (Schultz, 2014). In the Fall of 2014, three Occupational Therapy students participated in administering the assessment to 145 students from two elementary schools in St. Louis. Students also assisted in processing of data. This presentation will highlight learnings from the research experience that included the opportunity to apply learned theories and understand the process behind developing occupation-based assessments. This presentation supports the SLU Undergraduate Student Learning Outcome of applying various methods of research inquiry.

3:00-5:00 PM  BSC171-173  Table 21

Anna Di Staulo  
*Physical Therapy and Athletic Training*  
Faculty Sponsor: Dr. Gretchen Salsich

**The Effect of Movement Pattern Training on Hip and Knee Angles, Function and Pain in Females with Patellofemoral Pain**  
Patellofemoral pain (PFP) affects the performance of functional tasks. Subjects with PFP reported impaired functional tasks (most
often running) before undergoing 6 weeks of interventional
Physical Therapy. Levels of performance for these tasks were
reported at baseline and post intervention. I analyzed whether the
movement during a single limb squat (SLS) was related to the
subject’s reported functional task. I examined 2D video of SLS
and recorded measurements of hip and knee projection angles. I
compared these results with the recorded functional and pain
scales. Overall, hip and knee angles improved with function and
pain.

John Cavin
Physics
Faculty Sponsor: William Thacker

Investigating Possible Continuous Analogs to Grover’s
Search Algorithm
Among the handful of general protocols that can be performed on
quantum computers alone, Grover’s quantum mechanical search
algorithm is one of the most interesting ones. Grover originally
discovered the algorithm by imagining a system that would cause
particles to congregate around a particular position. He then
imagined how one could modify such a discretized system into a
generic search algorithm. My research has aimed to provide
qualitative and quantitative justification to Grover’s initial intuition
by exploring various continuous quantum mechanical systems
and analyzing their dynamical evolution. A combination of
analytical and numerical techniques was used in the analysis.

Hannah Schmitz
Political Science
Faculty Sponsor: Morgan Hazelton

The Generation Gap of Electoral Participation: Why Young
Americans Don’t Vote
Youth turnout in presidential elections has consistently declined
with each election after 1972 and is persistently lower than voter
turnout among older Americans. In my paper, I show that this
phenomenon is based in different levels of political interest.
Individuals with less political interest are less likely to vote than
those with more political interest. Moreover, younger Americans
are less likely to be interested in politics than are older
Americans. When individuals had either high or no political
interest, age did not have a significant effect on an individual’s
likelihood to vote. When individuals had low political interest, age
did play a significant role: younger Americans were much less
likely than older Americans to vote.

Kavisha Gandhi, Bethany Nakanishi, Susan
Wallace
Psychology
Faculty Sponsor:

Ending Socioeconomic Disparity in Higher Education
This project addresses the persistent lack of low-income students
attending four-year universities in the United States, as the
proportion of low-income students at universities has remained
largely the same since 1982 (Carnevale, 2010). Most programs
have focused on making college more affordable for low-income
students, but the underlying problem may be a more
psychological one. This issue may be related to how students
perceive college. Some people feel that the responsibility falls on
universities. Others feel that colleges have done their part to
make education accessible, and the problem lies in raising
awareness among low-income students. The action plan will
address the psychological underpinnings of this problem as well
as policies that affect this issue. We plan to interview members of
SLU’s admissions department, and students and administrators in
St. Louis public high schools. Based upon the information
gathered, recommendations will be made on how best to
approach this issue.

Landon Reading, Chelsea DeLeon, Rebecca
Tipton, Ashley Njaka, Kingsley Bryce
Psychology
Faculty Sponsor:

The Role of Side Effects as a Moderator in the Association
between Patient-Physician Trust and Medication Non-
Adherence
The patient-physician interaction is integral to the successful
delivery of health care. Existing research highlights attributes of
the patient-physician relationship that affect a patient’s
satisfaction with care, including continuity of care, concordance
on treatment management, and patient trust. The present study
examined whether the association between trust in a physician
and patient adherence is moderated by pharmaceutical side
effects. The Trust in Physician scale was administered to
participants before being randomly assigned a scenario where
they were asked to imagine that their physician diagnosed them
with a nonspecific condition and treatment with side effects either
present or absent. Based on previous findings, we predicted that
those with a lower level of trust in a physician would show a lower
level of medication adherence and that participants would be more likely to adhere to treatments with no side effects. These effects were predicted to be qualified by a trust x side effect interaction, such that the level of trust in the physician would only impact the reported adherence of those in the side effects condition.

3:00-5:00 PM  BSC171-174  Table 47

Adrienne Macchietto, Emily Schroepfer, Katherine Wilkerson
School of Nursing
Faculty Sponsor: Suzanne Mahon

Professional Writing in Nursing: Rising Above the Challenges
Submitting a paper for professional publication can be daunting and it can be challenging to determine the appropriate journal to submit a manuscript. Through a mentorship, students were guided through each step of the writing and publication process. Immersion in the writing process has enabled the students to begin to independently contribute to professional nursing journals. Students have submitted and have had accepted a variety of papers to respected professional nursing journals including: reflection papers, letters to the editor, full length manuscripts, and column articles. This course has provided a foundation for students to expand and continue to contribute professionally.

3:00-5:00 PM  BSC171-173  Table 28

Mary Grace Owens
Social Work
Faculty Sponsor: Daniel Gladden

A New Approach to Food Insecurity with College Students
The relationship between hunger and cognitive ability in K -12 classrooms has been thoroughly studied, but information on college students struggling with hunger is few and far between. Due to the increased need of students at The University of Missouri St. Louis, the student created a two-part food insecurity intervention and prevention program. The purpose of this project is to explore new techniques in fighting food insecurity with college students; with an overall goal to improve semester persistence, graduation rates, and foster campus community at The University of Missouri St. Louis.

3:00-5:00 PM  BSC171-173  Table 50

Zack Grummer-Strawn
Sociology and Anthropology
Faculty Sponsor: Scott Harris

Merit or Inherit?: The Role of Nonmerit Factors in Financial Success
Many Americans believe that financial success in the United States is determined by a meritocracy model, where outcomes are determined by individual talent, effort, and determination. Anyone—however humble their beginnings—can.... In this paper I challenge the meritocracy myth by highlighting the social factors that shape people’s socio-economic outcomes. I will focus on several “nonmerit” factors including race, sex, and family background.

4:20-4:40 PM  BSC 251 A

Annie Slusher
Sociology and Anthropology
Faculty Sponsor: Dr. Vermilion

Mortuary Practices at the Inception of Christianity in Ireland
This research examines the fundamental changes in Irish Medieval mortuary practices with the introduction of Christianity to the island. I discuss the changes and similarities in the locations of the graves, and the objects included, at the inception of Christianity. I focus on the use of Christian symbolism and Christian-inspired graves to determine in which areas Christianity was most accepted. I evaluated data collected from previous excavations and studied Christianity in Ireland to understand its role in changing the culture. Ireland widely accepted Christianity, but incorporated some of its own traditions, which helped to create a unique religious culture.

3:40-4:00 PM  BSC 251 A

Kathleen McGuire
Sociology and Anthropology
Faculty Sponsor: Mary Vermilion

Linking Disease to Climate Change: a Study of Malaria, Ebola and HIV
This paper examines the correlation between global warming, deforestation, and disease patterns in humans. Research shows a strong correlation between global warming and higher prevalence of diseases (e.g. malaria), and between deforestation and higher instances of Ebola and HIV/AIDS. Deforestation forces humans into closer contact with animals such as non-human primates, which has been shown to positively affect the trends of certain diseases. Research shows that human disturbance of the
environment is the primary cause for the transition of certain diseases (e.g. malaria, Ebola and HIV/AIDS) from animals to humans. Data for this paper came primarily from scientific literature.

3:00-3:20 PM  BSC 251 A

Bridget Reczek, Julie Hendrickson, Gavin Christopher, Thomas Hanlon, Kelsi Dilger, Malvika Sampath  
Sports Business  
Faculty Sponsor: Anastasios Kaburakis

St. Louis FC: Leveraging Tradition and Building Lifelong Fans  
With burgeoning viewership of professional soccer soaring in the United States and a new professional expansion team in St. Louis, soccer is experiencing a youth movement. Our project aims to gauge the interest towards St. Louis FC by targeting the collegiate demographic and polling their relative interest in their viewership of the franchise. Furthermore, the survey seeks to discover what would drive the demographic to engage with the team on a dedicated level. The overarching goal being to cultivate the rich tradition of soccer within St. Louis and leverage that tradition into a dedicated fan base with a lively fan experience.

3:20-3:40 PM  BSC 253 A

Katy Keating  
Theatre  
Faculty Sponsor: Nancy Bell

laugh.  
This is a play that I wrote about the life of my Uncle Pat. I video taped my family members telling stories about him, and I am recreating those videos on stage. Their stories about Pat are interlaced with the story of his life. The purpose of this project is to learn more about Pat, and to test the acting techniques and skills that I have acquired while here at SLU. Playing such different characters will challenge my acting abilities. My goal is to strengthen my physical and vocal acting abilities by the end of this project.

3:00-3:20 PM  BSC 253 D
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<th>Name</th>
<th>Field</th>
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<td>3:40-4:00 PM</td>
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<td>3:00-5:00 PM</td>
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## INDEX OF PARTICIPANTS

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<tr>
<th>Name</th>
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<td>Marketing</td>
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<td>John Korducki</td>
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<td>Gretchen Landgraf</td>
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<td>John Lauber</td>
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<td>Adrienne Macchietto</td>
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<td>Shabnam Majidi</td>
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<td>Emily McDermott</td>
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<td>Kathleen McGuire</td>
<td>Sociology and Anthropology</td>
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<td>Mary Miller</td>
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<td>Rachel Moylan</td>
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<td>Bethany Nakanishi</td>
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<td>Simon Nguyen</td>
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<td>Meg O’Neill</td>
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<td>Jessica Park</td>
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<td>Anna Patterson</td>
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<td>Meagan Paulsen</td>
<td>Occupational Science and Occupational Therapy</td>
<td>3:00-5:00 PM</td>
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<td>Sofia Porter</td>
<td>Psychology</td>
<td>3:00-5:00 PM</td>
<td>BSC 171-173</td>
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INDEX OF PARTICIPANTS

Lyn Ratliff  
Aerospace & Mechanical Engineering  
3:00-5:00 PM  
BSC171-173

Bridget Reczek  
Sports Business  
3:20-3:40 PM  
BSC 253 A

Emily Rorke  
Aerospace and Mechanical Engineering  
3:00-5:00 PM  
BSC 171-173

David Rutledge  
Marketing  
3:00-5:00 PM  
BSC 171-173

Malvika Sampath  
Sports Business  
3:20-3:40 PM  
BSC 253 A

Samantha Schauwecker  
Medical Imaging and Radiation Therapeutics  
3:00-5:00 PM  
BSC171-173

Jayme Schmuelling  
School of Nursing  
3:00-5:00 PM  
BSC 171-173

Lauren Seiler  
Communication  
3:00-5:00 PM  
BSC 171-173

Saahil Sheth  
Electrical and Computer Engineering  
3:00-5:00 PM  
BSC171-173

Hailey Shoemaker  
Chemistry  
3:00-5:00 PM  
BSC171-173

Ryan Spencer  
Communication  
3:00-5:00 PM  
BSC 171-173

Danielle Stickler  
Sports Business  
3:40-4:00 PM  
BSC 253 A

Monica Stumpf  
Medical Laboratory Science  
3:00-5:00 PM  
BSC 171-173

Niko Temofeew  
Biomedical Engineering  
3:00-5:00 PM  
BSC171-173

George Theotokatos  
Communication  
3:00-5:00 PM  
BSC 171-173
INDEX OF PARTICIPANTS

Aish Uraizee  
Medical Humanities  
3:40-4:00 PM  
BSC 253 B

Srimukhi Vunnam  
English  
4:40-5:00 PM  
BSC 253 B

Lauren Wayman  
Biomedical Engineering  
3:00-5:00 PM  
BSC171-173

Katherine Wilkerson  
School of Nursing  
3:00-5:00 PM  
BSC 171-173

Grace Yao  
Physical Therapy and Athletic Training  
3:00-5:00 PM  
BSC 171-173

Erica Zak  
Investigative and Medical Sciences  
3:00-5:00 PM  
BSC171-173