

RESEARCH

SCIENCE ART

CREATIVE

LEARNING

FACTS

INFORMATION

Undergraduate SYMPOSIUM

UNIVERSITY OF WISCONSIN-MADISON

EXPERIMENT
EXPRESSION

THEATER



TECHNOLOGY

PROGRAM 2016

Celebrating research, creative
endeavor and service-learning

EXAMINE

DATA

LITERATURE
PROJECT



Undergraduate Symposium 2016

Celebrating Research, Creative Endeavor and Service-Learning

University of Wisconsin–Madison

Union South

April 14, 2016

9 a.m. – 12 p.m. Poster Set-up – Varsity Hall
9 a.m. – 3:30 p.m. Registration – Varsity Hall Entrance
12 p.m. – 12:25 p.m. Welcome Remarks and Awards – Varsity Hall

Welcome to Student Participants

Celebrating Undergraduate Education at a Research University

Steven M. Cramer, Vice Provost for Teaching and Learning

Undergraduate Library Research Awards

Raina Bloom, Public Services Librarian

College Library

Undergraduate D2P Commercialization Awards

John Biondi, Director

Discovery to Product

12:30 – 1:45 p.m. Session I: Talks, Project Displays, and Posters
2 – 3:15 p.m. Session II: Talks, Project Displays, and Posters
3:30 – 4:45 p.m. Session III: Talks, Project Displays, and Posters
3:30 – 4:45 p.m. Performance Workshops and Film Shorts, The Marquee
4:45 – 6 p.m. Ideas to Excellence Awards and Reception – Varsity Hall

Refreshments will be available in Varsity Hall during Sessions I–III.

Light hors d'oeuvres will be served during the *Ideas to Excellence* reception.

We would like to thank our major sponsors and partners:

Brittingham Trust

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Undergraduate Academic Awards Office

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WISCIENCE

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The Writing Center

2016 Undergraduate Symposium Organizing Committee: Steven M. Cramer, Emilie Hofacker, Maya Holtzman, Kelli Hughes, Rebecca Kautz (coordinator) Laurie Mayberry, Aaron Miller, Cassie Rademaekers, Kari Schrage, Amy Sloane, Amber Smith, Julie Stubbs, Beth Tryon

A special thanks goes to Stephanie Diaz de Leon of The Wisconsin Union; Rosemary Bodolay, Patricia Iaccarino, Carrie (Carolyn) Kruse and Pamela O'Donnell at College Library; and Jeff Crucius of the Division of Information Technology



Key

Format

AT	Artist Talk
DI	Digital Salon
F	Film
PF	Performance
PS	Poster
PR	Project Display
T	Talk

Session Time

I	Session 1: 12:30 – 1:45 p.m.
II	Session 2: 2 – 3:15 p.m.
III	Session 3: 3:30 – 4:45 p.m.
PW	Performance Workshops and Film Shorts: 3:30 – 4:45 p.m.

Room

5Q	Fifth Quarter Studio
Ag-A,B	Agriculture-A,B
AL	Alumni
F	Forward
FN	First Nation
GV	Governance
IN-A,B	Industry-A,B
LM-A,B	Landmark-A,B
MT	Marquee Theatre
NW-A,B	Northwoods-A,B
SC	Scholars
SW	Sift & Winnow
TR	Traditions
VH	Varsity Hall
WI	Wisconsin Idea

Index

Last Name, First	Format	Time	Room	#
Badger, Buckingham	PS	III	VH	123

In this example, Bucky Badger will be presenting a poster during Session III from 3:30–4:45 p.m. in Varsity Hall. The poster number is 123.

Digital Installations

Session 1: 12:30 – 1:45 p.m.

VARSITY HALL

Title	Presenters and Mentors
Creating Virtual Environments: Modeling Change In 3D	Conlain Kelly, Yi Xian Soo, Patrice Tandifor, Kongmeng Xiong, Kevin Ponto (Mentor)

Project Display

Session 1: 12:30 – 1:45 p.m.

VARSITY HALL

Title	Presenters and Mentors
Nutrient Concentration and Food Web Structure Impact Bacterial Community Composition in Lake Mendota	Joshua Breider, Robin Rohwer (Mentor)

Session 2: 2 – 3:15 p.m.

VARSITY HALL

Title	Presenters and Mentors
Engaging Children in Science–Biology 375/399	Seah Buttar, Julia Chini, Rachel Sobiesk, Dorothea Ledin (Mentor)
Pragmatic Effects on Intonation in Heritage Speakers of Spanish	Alexander Villalba, Rajiv Rao (Mentor)

Session 3: 3:30 – 4:45 p.m.

VARSITY HALL

Title	Presenters and Mentors
Helium Ion Energy Measurement for a Solar Wind Implantation Device	Alexander Strange, Gerald Kulcinski (Mentor)
Topological Approach to the Data Mining of the Influenza Viruses	Mansu Kim, Amir Assadi (Mentor)
The Effect of Sleep on Physical Activity and Energy in University Undergraduate and Graduate Students	Matthew Stewart, Blake Helton, Elizabeth Larson (Mentor)

Performance Workshops and Film Shorts

3:30 – 4:45 p.m.

MARQUEE THEATER

Title	Presenters and Mentors
Fluid Endurance	Brigid Transon, Andrea Harris (Mentor)
Everyday Rhetorical Labor of Disability: Arguing for Access	Jamie Dawson, Annika Konrad (Mentor)
Shades of Grace	Tiffany Merrit-Brown, Marlene Skog (Mentor)

Artist Talks

Session 2: 2:15 – 3:30 p.m.

MARQUEE THEATER

Title	Presenters and Mentors
Purl Typeface	Grace Meurer, Dennis Miller (Mentor)
The Evolution and Destruction of Nature for Mankind	Jennifer Wildes, Leann Tigges (Mentor)
Zhuangzi's Butterfly—a Hybrid Animation Short of 3D and the Hand-Drawn	Xueyan Wang, Stephen Hilyard (Mentor)
Experiments in Acrylic Resist Aquatint for Safer Use in Intaglio Printmaking	Luke Johnson, Emily Arthur (Mentor)

Talks

Session 1: 12:30 – 1:45 p.m.

AGRICULTURE A

Title	Presenters and Mentors
Mechanosensitive Channels: a Pathway for Inner Membrane Permeabilization in E. Coli by Indolicidin	Meghan Turner, James Weisshaar (Mentor)
Estrogen Receptor a Gene Silencing in Female Marmoset Expected to Decrease Sexual Solicitation	Anna Pollard, David Abbott (Mentor)
Folic Acid: Its Implication in Alleviating Spinal Cord Injury-Induced Neuropathic Pain	Seah Buttar, Ravinderjit Singh, Gurwattan Miranpuri (Mentor)
Central Nervous System Tuberculosis Immunity	Christian Gerhart, Zsuzsanna Fabry (Mentor)

AGRICULTURE B

Title	Presenters and Mentors
Representational Richness and Learning about Biological Change	David Menendez, Karl Rosengren (Mentor)
Gender Differences in the Link Between Peer Sexual Harassment Victimization and Math Engagement	Ta Yang Hsieh, Janet Hyde (Mentor)
Reactions to Feedback in Race-Related Situations	Brennan Harris, Patricia Devine (Mentor)
Automatic Encoding of Gender by Three-Year-Old Children	Gina Bednarek, Kristin Shutts (Mentor)

ALUMNI

Title	Presenters and Mentors
Spinal Cord Stimulator for Treating Chemotherapy Induced Peripheral Neuropathy	Rewais Hanna, Alaa Abd-Elseyed (Mentor)
Evidence of Cranial Sensorimotor Deficits in a Pink1 Knockout Mouse Model of Parkinson's Disease	Alexander Brauer, Michelle Ciucci (Mentor)
Effects of Physical Fitness on Cerebrovascular Reactivity in Pre-Clinical Alzheimer's Disease	Joseph Janz, Ozioma Okonkwo (Mentor)
Determining Whether Memory Is Related to Sleep in People at Risk for Alzheimer's	Torie Sailer, Kate Sprecher (Mentor)

FIRST NATIONS

Title	Presenters and Mentors
Wireless Network Performance Assessment for an Integrated Home Energy System Platform	Zeng Fan, Giri Venkataramanan (Mentor)

Technologies of Participatory Governance in Putin's Russia
Kevin Mason, Hannah Chapman (Mentor)

What are the Ethical Responsibilities of Countries that Export Nuclear Power?
Kevin Van Duysen, Raluca Scarlat (Mentor)

GOVERNANCE

Title	Presenters and Mentors
Imposter Syndrome in Female Writing Fellows	Audrey Piehl, Emily Hall (Mentor)
Heroes and Kings:Thracian-Greek Cross Cultural Interactions	Margaret McLaughlin, Nick Cahill (Mentor)
Pharaoh's Fabulous Weave: Artificial Hair in Ancient Egyptian Art	Erin Lawrence, Jeremy Hutton (Mentor)

INDUSTRY A

Title	Presenters and Mentors
Land Change Effects on Tropical Soil Microbial Community Structure and Function	Megs Seeley, Erika Marin-Spiotta (Mentor)
Expanding Public Engagement in Conservation Education	Andrew Strother, Gregory Goar (Mentor)
Urban Canid Project Public Survey	Crystal Hall, David Drake (Mentor)
Allen's Rule and the Impact of Warming Winters on Northern Cardinal Morphology	Colleen Miller, Benjamin Zuckerberg (Mentor)

LANDMARK A

Title	Presenters and Mentors
Exploring the Role of Proteoglycans in Yap Localization in Human Pluripotent Stem Cells	Benjamin Weber, Yefim Zaltsman (Mentor)
Evolution of Prephenate Dehydrogenase in Legumes	Josh Westphal, Hiroshi Maeda (Mentor)
De Novo Synthesis of All Stereoisomers of 2, 3, 6-Trideoxyhexopyranosides and Their Oligomers	John Lynch, Weiping Tang (Mentor)
Role of Autolysins in Virulence and Biofilm Formation of the Plant Pathogen Ralstonia Solanacearum	Matthew Pereyra, Caitilyn Allen (Mentor)
Influence of Liposome Composition and Ph on Liposome-Water Partitioning of Lamotrigine.	Brian Jun, Joel Pedersen (Mentor)

LANDMARK B

Title	Presenters and Mentors
Microtubule Dependent Trafficking of Glur2 Into Dendritic Spines of Rat Hippocampal Neurons	Adam Awe, Erik Dent (Mentor)
Tyrosine Biosynthesis in Legumes: Characterizing a Unique Group of Arogenate Dehydrogenases	Matthew Schneider, Hiroshi Maeda (Mentor)
Comparison of Methods for Quantifying Inflammatory Response After Focal Cerebral Infarction	Jacob Richie, Lindsey Jager (Mentor)
Exploring the Oncogenic Role of E7 in the Development of Anal Carcinogenesis	Darcy Knaack, Louise Meske, Evie Carchman (Mentor)
Effect of Passage Number on the Protein Composition of Human Fibroblast Derived Extracellular Matrix	Madeline Bireley, Eric Schmuck (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
Multiple Representations in Chemistry Project	Daniel Ng, Ilkyu Ju, Tatiana Sta Maria, Martina Rau (Mentor)

The Use of a National Survey to Understand Parents' Perspectives of Community Services and Programming for Their Children Diagnosed with Fragile X Syndrome and/or Autism Spectrum Disorder

Sarah Laudon, Audra Sterling (Mentor)

Evaluation of the Efficacy of Television as Enrichment in Rhesus Macaques (Macaca Mulatta)

Stephanie Hoker, Mia Gambucci, Peter Pierre (Mentor)

Academics' Views of Inequality & the Media

Ross Dahlke, Michael Wagner (Mentor)

TRADITIONS

Title	Presenters and Mentors
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The Role of Neuroestradiol in the Preovulatory Lh Surge

Lucille Kohlenberg, Ei Terasawa-Grilley (Mentor)

Investigating the Effects of General Anesthetics on Outcomes of Traumatic Brain Injury in Drosophila

Julie Fischer, David Wassarman (Mentor)

Functional Characterization of Candidate Genes Involved in the Stability of the Vernalization Respon

Nahin Cano, Daniel Woods (Mentor)

Arabidopsis Mutant Response on Cadaverine Media Under Varying Light Intensity and Wavelength

William Genthe, Amy Jancewicz (Mentor)

Stembuds: a Mentoring Program for Promoting Broader Participation in STEM

James Xu, Sihan Man, Mitchell Nathan (Mentor)

WI IDEA

Title	Presenters and Mentors
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Overcoming Acquired Resistance to Cetuximab With Honokiol, a Small-Molecule Polyphenol

Hannah Pearson, Mari lida (Mentor)

Mutations in Ubiquilin2 and Als

Chichi Xie, Randal Tibbits (Mentor)

Perceptions of Obesity Among Wisconsin Community Members Involved in Health Promotion

Katherine Craemer, Jacqueline Hui, Joan Waukau, Michael Wong, Amy Hilgendorf (Mentor)

Investigations of Tet1 in Folate-Enhanced Spinal Cord Regeneration

Felissa Hong, Bermans Iskandar (Mentor)

Session 2: 2 – 3:15 p.m.

AGRICULTURE A

Title	Presenters and Mentors
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Bovine Intestinal Alkaline Phosphatase Incubated in Glucose Increased Activity

Rachel Andrie, Bethany Lucas (Mentor)

Analyzing the Interaction Between Molecular Chaperone SIS1 and Protein Sorting Factors Cur1 and Btn2

Adam Lauko, Elizabeth Craig (Mentor)

Effective Capture of Prostate Cancer Cells for Metabolic Analysis

Nihal Voruganti, Joshua Lang (Mentor)

Treatment of Pik3Ca and Apc-Mutated Colorectal Cancers With a Dual Pi3K/Mtor Inhibitor

Tyler Foley, Dustin Deming (Mentor)

Characterizing Species-Specific Cofactors Involved in Influenza Virus Replication

Olivia Cottrell, Steven Baker (Mentor)

AGRICULTURE B

Title	Presenters and Mentors
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Investigating the Specificity Between MBTH-Like Proteins and Nonribosomal Peptide Synthetases

Jane Ryu, Michael Thomas (Mentor)

The Role of HPV Oncoprotein E6 in Anal Tumorigenesis

Hana Sleiman, Evie Carchman (Mentor)

Selective Advantages Provided by Epstein-Barr Virus in Primary Effusion Lymphomas
Nora Herzog, William Sugden (Mentor)

Microenvironmental Control of Epigenetic Transitions During Reprogramming of Human Cells

Stephanie Seymour, Krishanu Saha (Mentor)

ALUMNI

Title	Presenters and Mentors
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Causes and Solutions to Health and Sexual Orientation Inequalities

Whistler Somers, Michael Wagner (Mentor)

Forming Bridges through Cartonera: a Cultural Exchange Between Latin America and Spain

Edel Roach, Ksenija Bilbija (Mentor)

The Path to Professionalization in the Context of Crisis: an Examination of Social Work in Jordan

Wilder Deitz, Eric Lock (Mentor)

Solicited and Unsolicited Advice

Courtney Thompson, Kai Pham, Lyn Van Swol (Mentor)

Educational Outcomes of Students of Color at Primarily White Institutions

Hailey Smith, Leann Tigges (Mentor)

FIRST NATIONS

Title	Presenters and Mentors
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Giant Molecular Cloud Formation Within Self-Perpetuating Spiral Arms of Disk Galaxies

Nathaniel Hilliard, Elena Donghia (Mentor)

Regression Analysis of Neutron Embrittlement in Reactor Pressure Vessel Steels

Josh Perry, Jerit George, Tom Vandenburg, Dane Morgan (Mentor)

The Effect of Aspect Ratio on Molecular Orientation in Vapor-Deposited Organic Semiconductors

Noah Johnson, Mark Ediger (Mentor)

Period Evolution of Double White Dwarf Binaries Under the Influence of Gravitational Radiation

Kylee Martens, Snezana Stanimirovic (Mentor)

Transition Probabilities of Co II, Weak Lines to the Ground and Low Metastable Levels

Thomas Feigenson, James Lawler (Mentor)

INDUSTRY A

Title	Presenters and Mentors
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Poverty in Bethel County, Alaska

Joshua Steger, Leann Tigges (Mentor)

Raising Little Aldos

Sarah Krier, Bret Shaw (Mentor)

Improving Water Desalination Through Spiral Wound Capacitive Deionization

Joshua Newman, John Koller, Jesse Wouters (Mentor)

It's Cultural, Not Religious: How Bharatanatyam Has Shaped South Asian Female Identity in the USA

Tejaswini Vemuganti, Corrie Norman (Mentor)

INDUSTRY B

Title	Presenters and Mentors
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Analyzing the RNA Binding Properties of Bic-C: a Regulator of Embryonic Development in Vertebrates

Nithin Charly, Michael Sheets (Mentor)

Ecology and Performance of Phosphorus Removal in a Microbial Community Using Glycine as a Substrate

Matthew Kizaric, Francisco Moya Flores (Mentor)

DNA-HCR Fish: Optimizing a Novel Microscopic Detection Tool for Mixed Microbial Communities

Elizabeth Erb, Natalie Keene (Mentor)

Continued on next page

Talks *continued*

The Cooperation Between N to Pi* and Hydrogen Bond Interactions: Implications for Protein Stability

Samuel Orke, Robert Newberry (Mentor)

Independently Acquired Pressure and Volume of Patients With Pulmonary Arterial Hypertension

Jack Kemnitz, Eric Dinges (Mentor)

LANDMARK B

Title	Presenters and Mentors
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Effect of Income on Wealth Transfers: Evidence from the Social Security Notch	Malcolm Kang, Kegen Tan (Mentor)
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Studying Big Data

Sarah Alsawaf, Franco Llamas, Amanda Mix, Craig Anderson (Mentor)

Brownian Rotation of Anisotropic Particles Subject to a Nonhomogeneous Magnetic Field

Sean Greene, Wai-Tong Fan (Mentor)

Applications of Mathematical Modeling in Dance

Julia Lindberg, Eli Krenzke, Amir Assadi (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
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Recovery from Injury in and Out of the Practice Room	Cody Goetz, Ian Tomaz, Jessica Johnson (Mentor)
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Yoga for Autism

Mary Callaghan, Gudrun Buhneemann (Mentor)

The Relationship Between Anorexia Nervosa, Self-Objectification, and Yoga

Noah Gill, Gudrun Buhneemann (Mentor)

Exposure to German as a Second Language Affects Language Processing in Native English Speakers

Emily Mech, Margarita Kaushanskaya (Mentor)

Food Selectivity in Children With Autism Spectrum Disorder: Caregiver Perspective

Jessica Muesbeck, Karla Ausderau (Mentor)

TRADITIONS

Title	Presenters and Mentors
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Swallowing Analysis of RAD and LRAD Patients in Comparison to Healthy Controls Via VFSS and HRM	Nicole Schaen, Corinne Jones (Mentor)
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Visual Attention and Lexical Processing in Infants

Janine Mathee, Jenny Saffran (Mentor)

Nurses' Attitudes and Compliance With the CAM

Michelle Prihoda, Lisa Bratzke (Mentor)

WI IDEA

Title	Presenters and Mentors
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Crowdfunding Asthma Research: Motivating Donors With the Power of Story	Kelsey Hackett, Sarah Gorall, Philip Rudnitzky, Erica Terry, Lawrence Hanrahan (Mentor)
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Crowdfunding Asthma Research: Medical Problem and Treatment Opportunity

Philip Rudnitzky, Sarah Gorall, Kelsey Hackett, Erica Terry, Lawrence Hanrahan (Mentor)

Crowdfunding Asthma Research: Audience Engagement Through Social Media

Sarah Gorall, Lawrence Hanrahan (Mentor)

Session 3: 3:30 – 4:45 p.m.

AGRICULTURE A

Title	Presenters and Mentors
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Effect of LCOs on Ectomycorrhizal Symbiosis Between Hebeloma Cylindrosporum and Pinus Taeda	Paxton Paine, Kevin Garcia (Mentor)
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Pseudoknots: Effects of Translation in Tritium Mosaic Virus

Andrew Goethel, Aurelie Rakotondrafara (Mentor)

Some Bacterial Isolates of Leaf Cutter Ant Fungus Gardens Promote Fungal Garden Growth

Zach Dumar, Cameron Currie (Mentor)

Development of a Novel High-Throughput Assay to Characterize Origins of DNA Replication in Yeast

Katherine Jiang, Catherine Fox (Mentor)

Engineering the Cellular Microenvironment to Reveal Mechanisms of Human Development

Ryan Prestil, Krishanu Saha (Mentor)

ALUMNI

Title	Presenters and Mentors
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Bdnf Genotype Modifies the Association Between Physical Activity and Cognition	Michelle Berning, Ozioma Okonkwo (Mentor)
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The Effects of Meditation Intervention on Caregivers of Dementia Patients

Michael Prairie, Gudrun Buhneemann (Mentor)

Physical Activity Impacts Biomarkers of Alzheimer's Disease in Cognitively Normal Middle-Aged Adults

Rachael Rol, Ozioma Okonkwo (Mentor)

Effects of Chondroitin Sulfate Proteoglycans in Recovery After Focal Cerebral Infarction

Claire-Marie Canda, Lindsey Jager (Mentor)

Understanding Maturational Differences in Cardiorespiratory Fitness Development in Children

Carol Coutinho, Andrew Watson (Mentor)

GOVERNANCE

Title	Presenters and Mentors
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Influence of Landscape on Bumblebee Pollen Diversity	Robin Sandner, Juan Zalapa (Mentor)
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Place-Based Learning to Promote Stewardship

Halle Lambeau, David Hart (Mentor)

Microstructural and Geochemical Analyses of Manganese-Bearing Sand Injectites in New Mexico

Salsabila Nazari, Laurel Goodwin (Mentor)

A Place-Based Learning Activity on the History and Impact of PCBs in the Fox River

Stephanie Schmidt, David Hart (Mentor)

INDUSTRY A

Title	Presenters and Mentors
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Moving Beyond Words on the Page: Race and Writing Centers	Meghan Villalpando, Emily Hall (Mentor)
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Why Stories Matter: Examining the Role of Narrative in Women's Lives

Sarah Rose Smiley, Christine Garlough (Mentor)

Fashioning Buddha: a Comparative Analysis of Buddha-Branded Clothing

Morgan Haefner, Corrie Norman (Mentor)

South African Youth Experiences of Social Cohesion Through Schooling

Erika Hartzheim, Christina Cappy (Mentor)

Exploring Education Policy in African Countries: a Closer Look at the Early Grade Reading Assessment

Vedika Ramesh, Lesley Bartlett (Mentor)

INDUSTRY B

Title	Presenters and Mentors
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Hardening of Materials Using Plasma Immersion Ion Implantation (Piii)	Yufan Xu, Cary Forest (Mentor)
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Microorganism Billiards

Colin Wahl, Saverio Spagnolie (Mentor)

The Link Between Fraction Magnitude Representations and Math Skills

Nina Vakil, Edward Hubbard (Mentor)

Stochastic Spatial Models for Morphogen-Mediated Pattern Formation

Yu Shuqi, Wai-Tong Fan (Mentor)

LANDMARK A

Title	Presenters and Mentors
Collaborative Design: Creating a Rubric to Evaluate Inclusive Behaviors in 4-H Clubs	Janiece Piolet, Mariah Kornbluh (Mentor)
Data Collection Methodology Comparison for Life Cycle Assessment on Beltline Reconstruction	Aaron Canton, Angela Pakes Ahlman (Mentor)
Mining Personal Habits on a Smartphone	Prithvi Chowhan, Keshav Sharma, Xinyu Zhang (Mentor)
A New Approach to the Design and Manufacturing of Saxophone Mouthpieces for Unique Tonal Qualities	Alexander Buehler, Krishnan Suresh (Mentor)

LANDMARK B

Title	Presenters and Mentors
Non-Symbolic Snarc Effect	Kimberly Lense, Percival Matthews (Mentor)
The Effects of Anxiety on the Stress Response System of Chronic Hives Patients	Megan Xiong, Marcia Slattery (Mentor)
School Food Cultures: a Multi-Country Comparison of School Food Programs	Kelly Weldon, Jennifer Gaddis (Mentor)
Empathy and Harm Aversion in Moral Decision Making	Shiyong Li, Paula Niedenthal (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
Pragmatic Effects on the Intonation of Heritage Speakers of Spanish	Karen Garcia-Olmos, Rajiv Rao (Mentor)
Assessing Communication in the Delivery of Quality Prenatal Care in Dane County	Glennie Mihalovic, Sheryl Coley (Mentor)
The Effects of Pragmatic Meaning on Intonation in Heritage Speakers of Spanish	Miriam Guevara, Rajiv Rao (Mentor)
Assessing the Prenursing Undergraduate Student Pipeline	Pa Zao Lee, Mel Freitag (Mentor)

TRADITIONS

Title	Presenters and Mentors
Feel the Burn: a 10, 000 Year Record of the Fire Regime of Bonnet Lake, Ohio	Katherine Hayes, Jack Williams (Mentor)
Women's Spatial Negotiations: Alcohol, Sexual Violence, and Geography on the UW Campus	Camille Plaisance, Emma Gunderson, Emily Rose, William Gartner (Mentor)
Architecture, Zoning, and the Segregation of Women's Public and Private Spheres in Madison, WI	Sela Gordon, William Gartner (Mentor)
Do Seed Traits Mediate Plant Community Changes in Wisconsin's Unburned Prairies?	Christopher Morgan, Jesse Miller (Mentor)

WI IDEA

Title	Presenters and Mentors
Determining the Importance of Environment for Establishing Intestinal Microbial Diversity	Thomas Sorenson, Federico Rey (Mentor)
Tnf Alpha Overexpression Drives Citrullination in Inflamed Murine Lungs and Joints	Daeun Shim, Miriam Shelef (Mentor)
The Biological Function of the CGG Repeat Sequence Associated With Fragile-X Syndrome	Brad Levesque, Anita Bhattacharyya Consigny (Mentor)
Roadmap to Vitamin A: Finding the Genetic Region Controlling B-Carotene Accumulation in Carrot	Shanovich Hailey, Shelby Ellison (Mentor)

Lightning Style Talks

Session 1: 12:30 – 1:45 p.m.

SIFT & WINNOW

Title	Presenters and Mentors
Modeling Local and Systemic Cytokine Responses to C9T11-Cla and Celecoxib in Rheumatoid Arthritis	Brandon Bruce, Jake Olson (Mentor)
Smart Asthma Management: Statistical Modeling and Prognostics of Rescue Inhalers	Rayyaan Usmani, Patricia Brennan (Mentor)
The Synthesis of Fe-Ge Binary and Fe-Ge-O Ternary Nanowires for Spintronic Applications	Brandon Phillips, Matthew Stolt (Mentor)
Kernza Intermediate Wheatgrass-Legume Mixtures Compatibility and Productivity at the Field Scale	Kyle Rentmeester, Carly Smetana, Valentin Picasso Risso (Mentor)
Immigrant Families: Literacy and Identity Development Over Time and Space	Enrique Guzman, Catherine Lilly (Mentor)
Analysis of 19th Century Congressional Districts	Guy Olson, Jack Edelson (Mentor)
Electromagnetic Seed Deposition Techniques for an Autonomous Brachytherapy Robot	Lindsay Bodart, Bruce Thomadsen (Mentor)
Policies Promoting Rental Assistance Beneficial for Low Income Community Health	Delaney Cairns, Leann Tigges (Mentor)

Session 2: 2 – 3:15 p.m.

SIFT & WINNOW

Title	Presenters and Mentors
The Association of Mineral Metabolism With Vascular Access Patency	Joel Rosenberg, Alexander Yevzlin (Mentor)
Familial and Cultural Patterns Related to a Transgender Youth's Transition Process	Callie Frautschi, Stephanie Budge (Mentor)
Troubling Racial Discourse: Youth, Race, and Opportunity in Madison	Tashiana Lipscomb, Amina Iro, Bianca Baldrige (Mentor)
Cell & Molecular Techniques Associated With Vascular Biology	Jazmin Vargas, Bo Liu (Mentor)
Discover Your Inner Shakespeare	Laura Schmitt, Kevin Mullen (Mentor)
Effects of Walleye Predation on the Growth of Yellow Perch	Pakou Yang, Terence Barry (Mentor)
The Journal of Undergraduate Science and Technology (Just)	Kuenzli Shelby, Dietram Scheufele (Mentor)
La Frontera En Wisconsin: Experiences of Migration from the Border to Wisconsin	Alexandra Arriaga, Karma Chavez (Mentor)
Why Dictators Trade: Understanding the Domestic Sources of Autocratic Trade Policy	Teressa Shaw, Susanne Mueller (Mentor)

Session 3: 3:30 – 4:45 p.m.

SIFT & WINNOW

Title	Presenters and Mentors
Performative Art & Well-Being	Sandie Thao, Steve Quintana (Mentor)
Effects of Maternal Stress on Neonate Hippocampal Volume	Megan Lucas, Andrew Alexander (Mentor)
Peace on Earth: The Military Experience of Mary's Healing Power at Lourdes	Lauren Roach, Corrie Norman (Mentor)
Immediate Lake Information App for NTL LTER Project	Xu Junjie, Corinna Gries (Mentor)

Continued on next page

TITLE	Presenters and Mentors
Pragmatic Effects on the Intonation of Heritage Speakers of Spanish	Jay Lema, Rajiv Rao (Mentor)
What Does It Take to Be a CEO?	William Bravo, Maria Triana (Mentor)
Engineering Guidance Gradients in Hydrogel Scaffolds to Facilitate Axonal Growth Post-Stroke	Susanna Kwok, Lindsey Jager (Mentor)
Inter-American Court and National Prosecutions	Roberto Romero, Alexandra Huneus (Mentor)
Sifting & Winnowing: UW-Madison Journal of Law, Political Science, and Public Policy	Kyra Fox, Kelsey Beuning, Jake Schwid, Howard Schweber (Mentor)
The Social Gradient: Psychosocial Factors That Lead Hmong Patients to Type 2 Diabetes	Steven Xiong, Vera Tsenkova (Mentor)

Posters ALL POSTERS IN VARSITY HALL

Session 1: 12:30 – 1:45 p.m.

PS#	Title	Presenters and Mentors
3	Aging Effects on Acoustic Characteristics of Adult Speech	Elaine Romenesko, Hour Vorperian (Mentor)
5	What Is the Best Scaffold for in Vitro Neural Cell Culture?	Joann Huynh, Lindsey Jager (Mentor)
7	Does the Transgenerational Response to Folic Acid Follow a Sex-Linked Inheritance Pattern?	Tenzin Kunsel, Bermans Iskandar (Mentor)
10	Enjoyable Conversation Topics of Young Adult Dating Vs. Midlife Empty Nest Couples	Katherine Mcgrath, Amanda Ali, Lauren Papp (Mentor)
12	Variation in Cold Tolerance of Solidago Rigida and Silphium Integrifolium Root Tissue	Emily Nettesheim, Ellen Damschen (Mentor)
14	Characterization and Comparison of Matrix A3 Graphite With Ig-110 Nuclear Graphite	Colin Swee, Raluca Scarlat (Mentor)
16	Exploring Differential Genetic Requirements for Ess Secretion in PY79 and 3610 of Bacillus Subtilis	Jia Hui Khoo, Briana Burton (Mentor)
20	Expanding Entomophagy: Investigating Potential Barriers to Mealworm and Cricket Consumption	Marjorie Kersten, Susan Paskewitz (Mentor)
22	Complimentary Health Approaches to Pain Management in Pediatric Patients	Chelsi Reilly, Chelsi Reilly, Peggy Riley, Elisa Torres, Benjamin Walker, Elisa Torres (Mentor)
25	Influence of Groundwater on Tree Growth Variability During Drought	Lorenzo Warrington, Dominick Ciruzzi (Mentor)
30	The Soap Project: Women's Empowerment & Sanitation in Lweza	Mackenzie Carlson, James Ntambi (Mentor)
32	Communication and Caregiver Burden in Alzheimer's Disease	Emily Hosokawa, Lyn Turkstra (Mentor)
34	Observing Testing Effects on Children's Word Learning Through Storybook Reading	Hailey Sawtelle, Haley Vlach (Mentor)
36	Impact of the Waste Product Acid Whey on Aggregate Stability of an Agricultural Soil	Daniel Linton, Edward Boswell (Mentor)
38	Novel Data Collection System for Tourniquet Mastery Training (Tmt)	Montserrat Calixto, Calvin Kwan (Mentor)
40	Investigating the Effect of Bfd, Fpr, NfsB, and YqjH on Fur Transcriptional Regulation in E.Coli	Allison Weisnicht, Patricia Kiley (Mentor)

PS#	TITLE	Presenters and Mentors
44	Properties of Interstellar Turbulence Shaping Large Neutral Hydrogen Clouds in the Milky Way	David Nestingen-Palm, Snezana Stanimirovic (Mentor)
47	Analysis of the Role of FLS2 Prr Gene in Medicago Truncatula	Erin Sweeney, Jean-Michel Ane (Mentor)
49	Age at Pubertal Onset and Self-Reported Levels of Social Anhedonia: What Is the Connection?	Bevlin Jennings, Diane Gooding (Mentor)
52	Investigating the Neural Basis of Developmental Gerstmann's Syndrome	Maiyer Vang, Edward Hubbard (Mentor)
54	Simultaneous Pressure-Volume Acquisition of Patients With Pulmonary Arterial Hypertension	Heather Shumaker, Eric Dinges (Mentor)
57	Support Groups and Mothers of Children With Autism Spectrum Disorder	Desiree Taylor, Sigan Hartley (Mentor)
60	Vitamin D Inhibition of a T Cell Pro-Inflammatory Cytokine by an Epigenetic Mechanism	Corinne Praska, Colleen Hayes (Mentor)
65	Gerrymandering in the 19th Century	Dakota Osborn, Jack Edelson (Mentor)
68	Construction and Analysis of Infectious Cdna Copy of Hela Cell Line Adapted Rhinovirus (Rv-C15)	Shakher Sijapati, James Gern (Mentor)
70	Young Children's Visits With Their Jailed Parents	Nicole Johnson, Julie Poehlmann-Tynan (Mentor)
73	Mindfulness Predicts Psychological and Physical Functioning After Stem Cell Transplantation	Anna Larson, Erin Costanzo (Mentor)
77	Anatomical Accuracy of Commercial Female Urinary Catheter Training Simulators	Jordan Gates, Tori Carter-Story, Shannon Dimarco (Mentor)
79	Neurotransmitter Project: Serotonin (5Ht-2A, 5Ht-2C, 5Ht-6) Cell Receptors	Nicole Wlodarski, Jennifer Gajeski, Tara Kamnetz, Mark Brownfield (Mentor)
81	Normoxia & Hyperoxia Effects on the Heart in Year Old Rats	Elizabeth Ploumidis, Kara Goss (Mentor)
83	Pressure Gaps in Patients With Dysphagia Compared to Healthy Control	Emma Backlund, Corinne Jones (Mentor)
87	Mutant H-Ras Mediated Cetuximab Resistance and Downstream Inhibition in Head and Neck Cancer	Michael Fisher, Randy Kimple (Mentor)
89	Cellular Imaging of the Response of Poplar Roots to Ectomycorrhizal Fungal Signals	Nathaniel Schleif, Kevin Cope (Mentor)
93	Detection and Characterization of Listeria Monocytogenes Mutants With Cytosolic Growth Defects	D'Antonio Marc, Jd Sauer (Mentor)
95	Analysis of Arabidopsis Thaliana Response to Environmental Stimuli That Mimic Space Flight	Natasha Bilkey, Richard Barker (Mentor)
97	Anger Expression in Infancy	Lyndsey Clayton, Hill Goldsmith (Mentor)
99	Children's Use of Mutual Exclusivity Promotes Immediate, But Not Long-Term, Word Learning	Elizabeth Grant, Kayla Hui, Haley Vlach (Mentor)
102	How Consumer Science Classes Effect Students Environmental Knowledge and Attitudes	Marcus Bolles, Lydia Zepeda (Mentor)
105	Normal Arterial Blood Pressure in Young Domestic Cats (Felis Catus)	Sarah Neufcourt, Gillian Mclellan (Mentor)
108	Differentiation of Down Syndrome Interneurons Through the Use of Induced Pluripotent Stem Cells	Lindsey Amundson, Anita Bhattacharyya Consigny (Mentor)

PS#	TITLE	Presenters and Mentors
110	Technologies of Participatory Governance in Non-Democracies: a Theoretical Framework	Joaquin Valdez, Haley Massa, Hannah Chapman (Mentor)
112	Gestational Alcohol Exposure in Mice and Mammary Gland Structural Changes During Lactation	Emma Nettesheim, Robyn Amos-Kroohs (Mentor)
114	Impact of Evolutionary Pressure on X. Nematophila Host Interaction Phenotypes	Helena Randle, Angel Casanova-Torres (Mentor)
116	The Use of Quantitative Ultrasound Shear Wave Analysis to Noninvasively Assess Tendon Mechanics	Alexander Ehlers, Darryl Thelen (Mentor)
118	Chronic Graft-Versus-Host Disease and Psychological Well-Being	Sam Johnson, Erin Costanzo (Mentor)
120	Prevalence of Virulent Genotypes of Borrelia burgdorferi in Ticks and Small Mammals in Wisconsin	Thomas Richards, Susan Paskewitz (Mentor)
122	High Throughput Urinary Function Analysis	Steven Oakes, Chad Vezina (Mentor)
124	Mapping Tree Cover Gain in the Savanna of Brazil: a Conservation Tool	Anisa Yasmin Fadhil, Jesse Miller (Mentor)
125	Investigation of Disease Resistance in Potato Plants	Maryatt Karstensen, Ana Fulladolsa Palma (Mentor)
127	Fabrication of a Microfluidic Assay for Measuring Temporal Secretion Via Inverse Diffusion	Aniket Biswas, Layla Barkal (Mentor)
128	Using Artificial Transcription Factors to Induce Differentiation Into Cardiomyocytes	Evan Heiderscheit, Asuka Eguchi (Mentor)
130	Brain Stearoyl-CoA Desaturase-1 Deficiency Protects Against High-Fat Diet-Induced Metabolic Disorder	Alina Zdechlik, James Ntambi (Mentor)
132	Drawing Across Media	Mary Matoba, Ashley Haut, Chrystal Lee, Mary Matoba, John Millerhagen, Porter Pavalko, Danielle Peters, Kailey Sabel, Heather Kirkorian (Mentor)
135	Application of Metagenomic Techniques to Mastitis Control	Anna Kleinhans, Stephanie Metzger, Laura Hernandez (Mentor)
137	Scat Analysis of Urban Coyotes (Canis Latrans) and Red Foxes (Vulpes Vulpes) in Madison, Wisconsin	Bruce Jake Berger, David Drake (Mentor)
141	Junior Lab Resident's Approach to Complex Urinary Pathology	Anna Witt, Shannon Dimarco (Mentor)
143	Electrochemistry Techniques to Study Corrosion and Mass Transport in Fluoride Molten Salts	Kyle Winkler, Francesco Carotti (Mentor)
145	Biocore Outreach Ambassadors	Sara Grange, Evan Heiderscheit, Mathias Hibbard, Meghna Kurup, David Marshall, Alina Zdechlik, Michelle Harris (Mentor)
148	The Search for Resistance to Potato Virus Y	Chester Abramczak, Ana Fulladolsa Palma (Mentor)
150	The Effects of Nosema Ceranae on Bees	Diane Nhieu, Heide Knoppke-Wetzels, Sainath Suryanarayanan (Mentor)
153	Characterization of Arogenate Dehydrogenase Enzymes for Tyrosine Sensitivity	Aditya Dewanjee, Samuel Lopez Nieves (Mentor)
156	Neuronal Antigen Specific T Cells Mitigate CNS Inflammation in the Mouse Model of Multiple Sclerosis	Mckenna Dallmann, Aditya Rayasam (Mentor)
158	Float Nurse Fatigue in Varied Hospital Work Environments	Danielle Sendelbach, Linsey Steege (Mentor)

PS#	TITLE	Presenters and Mentors
160	Associations Between Maternal IQ, Parenting Quality, and Academic Readiness	Britta Gutschenritter, Stephanie Gross, Janean Dilworth-Bart (Mentor)
162	The Design Challenge: Interdisciplinary Engagement to Improve Scientific Visualization	Robert Darlington, Tanya Buckingham (Mentor)
164	Designing and Testing Biomaterials That Regulate Transforming Growth Factor-Beta 1	Anna Kellner, William Murphy (Mentor)
168	Shifts in Wintertime Processes and Induced Changes to Soil Aggregation and Microbial Carbon	Madalyn Lupinek, Nicholas Balster, Edward Boswell, Edward Boswell (Mentor)
170	Quasar Absorption and Galaxy Geometry: Is Star Formation the Cause for Diffuse Gas Around Galaxies?	Andrew Villanueva, Britt Lundgren, Jennifer Witt, Christy Tremonti (Mentor)
173	Special Education Teacher Readiness With English Language Learners	Brandon Stringer, Allison Lueke, Taucia Gonzalez (Mentor)
175	High Surface Area Tin Oxide as a High Temperature Support Material	Faisal Bin Salem, Juan Venegas (Mentor)
178	Challenge and Implication of Anthocyanin-Based Polymeric Colorants Use for Food Additive	Yiming Qin, Bradley Bolling (Mentor)
182	The Relationship Between Sensory Over-Responsivity and Obsessive-Compulsive Symptoms	Karyn Esbensen, Hill Goldsmith (Mentor)
185	Novel Treatment for Dysphagia in Patients With Cognitive Impairment	Samantha Blanke, Nicole Pulia (Mentor)
188	Culturing of Neural Tube Organoids in an Enclosed Cavity of an Alginate Hydrogel	Joshua Plantz, Randolph Ashton (Mentor)
192	Jailed Parents With Young Children: Substance Use, Co-Parenting, and Visits	Anthony Nestler, Luke Muentner, Anthony Nestler, Julie Poehlmann-Tynan (Mentor)
194	Mbd1 Regulation of Neuronal Maturation and Synaptic Integration	Laurel Kelnhofer, Xinyu Zhao (Mentor)
196	Connecting Older Adults and Healthcare Providers Through a Social Networking Website	Junho Oh, Adam Maus (Mentor)
199	Unveiling the Journey of UW-Madison's Waste	Anna Ostermeier, Jill Sakai (Mentor)
201	Vampire Plagues: Medical Misconceptions and Popular Folk Beliefs	Christina Dudley, Tomislav Longinovic (Mentor)
204	Further Characterization of Aromatase Expressing Cells in the Monkey Hypothalamus	Taylor Cesarz, Ei Terasawa-Grilley (Mentor)
206	The Moderation of Parental Monitoring on Anger and Aggression	Cassidy Mabee, Hill Goldsmith (Mentor)
208	Effect of Temperature and Salinity on Seed Germination Rate in Various Varieties of Alfalfa	Marisa Brudny, Johanne Brunet (Mentor)
210	Are There Unexpected Parallels Between Abstract Algebra Structures and Biology Building Blocks?	Sonya Loberger, Laurence Loewe (Mentor)
213	Association of Sport Specialization and Number of Competitions	Conner Schacht, Timothy Mcguine (Mentor)
215	Children of Incarcerated Parents: Examining Family Representations Through Children's Drawings	Zoe Milavetz, Lexi Frerks, Julie Poehlmann-Tynan (Mentor)

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Posters *continued*

PS#	TITLE	Presenters and Mentors
217	Triacylglycerol Synthesis and Systemic Energy Balance: Is MGAT2 Required in the Fat Cells?	Matthew Hupy, Eric Yen (Mentor)
219	Study of the Effects of Hyperoxia on Mitochondrial Fission and Fusion	Gina Luu, Kara Goss (Mentor)
221	Investigating the Mechanistic and Functional Role of S31 Phosphorylation in the H3.3 Histone Variant	Daniel Hanna, Peter Lewis (Mentor)
223	The Effects of Varroa Destructor Mites on Honeybee Populations	Heide Knoppke-Wetzel, Diane Nhieu, Sainath Suryanarayanan (Mentor)
227	Combined Actions of Etomidate and Midazolam on Gabaa Receptor Kinetics	Connor Ford, Robert Pearce (Mentor)
229	Synthesis of Silver-Diamond/Gold-Diamond Nanocomposite for Visible Light Induced Co2 Photoreduction	Adarsh Suresh, Robert Hamers (Mentor)
231	An Algebraic Approach to Modeling Visual Perception of Motion Using Quaternions	Eli Krenzke, Julia Lindberg, Amir Assadi (Mentor)
233	Early Adolescents' Peer Relations and Parental Involvement With Social Media	Ashley Prudhom, B Brown (Mentor)
236	Alpha-Synuclein Pathology in Gastrointestinal Tract in a Rat Model of Parkinson's Disease	Meghna Kurup, Michelle Ciucci (Mentor)
239	Maternal Stress and Depression in Infancy: Relations With Infant Emotion Regulation	Alexandra Devine, Hill Goldsmith (Mentor)
241	A Potential Mechanism for Atmosphere-Ocean Coupling in the Madden-Julian Oscillation	Kaitlyn Krzyzaniak, Larissa Back (Mentor)
245	Wonewoc Formation and Tunnel City Group Rocks: Potential Natural Sources of Groundwater Contaminants	Lisa Haas, Jay Zambito (Mentor)
247	PAD2 Increases Overall Citrullination in Inflamed Joints of Tnf-Alpha Overexpressing Mice	Ryan Rebernick, Miriam Shelef (Mentor)
249	Achieving Learning Objectives by Adding Complexity to Off-The-Shelf Simulator Models	Rebekah Fiers, Shannon Dimarco (Mentor)
251	Measuring Mitochondrial Nonenzymatic Lysine Acetylation	Keighley Reisenauer, John Denu (Mentor)
253	Organic Carbon Storage in Soils and Sediments in Lakes of the Chequamegon-Nicolet National Forest	Natalie Schmer, Jessica Corman (Mentor)
255	Climate and Forest Productivity Affect Microbial Communities in Young Conifer Forests of Yellowstone	Aisha Ba, Winslow Hansen (Mentor)
257	Pen and Pal: Splitting the Bifunctionality of PseB, a 4, 6-Dehydratase/5-Epimerase	Nathan Delvaux, James Thoden (Mentor)
259	Understanding the Experiences of Older Adults With Frequent Hospitalizations: a Qualitative Study	Julia Loosen, Melissa Dattalo (Mentor)
262	Coevolution of the RNA Ligase RtcB and Its Activator Arcease	Amanda Beltrame, Kevin Desai (Mentor)
265	Are They Paying Attention? Relations Between the Spacing Effect and Children's Attention Abilities	Emily Katz Amanda Babler, Emily Utic, Haley Vlach (Mentor)
267	Association of Single Nucleotide Polymorphisms (SNP) on TLR1 and Premature Births	Tarjani Ranade, De-Ann Pillers (Mentor)
269	Affects of Chondroitin Sulfate Proteoglycans on the Differentiation of Neural Cells in Vitro	Morgan Suhre, Lindsey Jager (Mentor)

PS#	TITLE	Presenters and Mentors
272	Understanding the Pathology of Cognitive Deficits in Parkinson's Disease Using a Pink1 -/- Rat Model	Haleigh Mulholland, Michelle Ciucci (Mentor)
276	Early Harappan Steatite Seals of Ancient South Asia: Experimental Replication and Analysis	Laura Aiken, Jonathan Kenoyer (Mentor)
279	Detecting Respiration and Heart Rates Through Accelerator and Gyroscope	Keren Zhu, Hua Shao, Xinyu Zhang (Mentor)
281	Effects of Media on Embryonic Stem Cell Growth and Differentiation	William Lundeen, Ei Terasawa-Grilley (Mentor)
283	Exploring Older Hmong Adults' Experience With an Oral Online Survey	Aylee Yang, Tararinsey Seng, Maichou Lor (Mentor)
285	Purification and Characterization of Saro_2595 from N. Aromativorans and Yghu from E. Coli	Charles Olmsted, Wayne Kontur (Mentor)
287	Fcgr3A Variability: Copy Number, Single Nucleotide Polymorphisms, and Efficacy of Immunotherapy	Mikayla Gallenberger, Amy Gurel (Mentor)
289	Investigation of Allosteric Communication Across Proteins Via Mutagenesis	Wanying Lou, Megan Leander (Mentor)
292	The Consumer Experience - a Survey of Dane County Farmers' Market Attendees	Taylor Nowak, Kathryn Carroll (Mentor)
294	Studying the Effects of Mds Mutations in HSH155 and PRP21 on the Splicing of Introns	George Luo, Aaron Hoskins (Mentor)
295	Isolation, Characterization, and Draft Genome Sequence of an Environmental Cellulolytic Bacterium	Andrew Steinberger, Garret Suen (Mentor)
297	The Relationship Between Sleep Quality and the Accumulation of Amyloid Protein in the Brain	Brittany Derynda, Barbara Bendlin (Mentor)

Session 2: 2:00 – 3:15 p.m.

PS#	Title	Presenters and Mentors
9	The Effectiveness of Olfactory Stimulation as a Form of Sensory Enrichment for Rhesus Macaques	Mia Gambucci, Stephanie Hoker, Peter Pierre (Mentor)
13	The Relationship Between Electron Transport System Function and Aging	Julie Thelen, Rashpal Dhillon (Mentor)
18	Heart Rate Variability and Resting State Functional Connectivity in Major Depression	Alissa Ehlers, Heather Abercrombie (Mentor)
24	Wild Bee Visitation Rates to Planted Wildflowers and Weeds in Conservation Borders	Jade Kochanski, Tania Kim (Mentor)
26	Building Pathways for Fully Engaged Students: Youth Voice and Student-Teacher Relationships	Angela Gableman, Mariah Kornbluh (Mentor)
28	The Regulation of Chromosomal DNA Replication by Orc-Origin Binding in the Eukaryotic Cell Cycle.	Martha Carreno, Catherine Fox (Mentor)
33	The Role of Centrosomes in the DNA Damage Response	Jaide Hawn, Ryan Denu (Mentor)
37	Optimization of Catm, a Transmembrane Protein Structural Prediction Program	Evan Lange, Alessandro Senes (Mentor)
39	Evaluating Methods to Break Dormancy in Carrot Seed	Meggie Dipoto, Adam Bolton (Mentor)
42	Neutrophil Response to Antifungal-Treated Biofilms of Candida Albicans	Matt Hoyer, Jeniel Nett (Mentor)
45	The Molecular Basis of Myosin Related Cardiac Myopathies	Daniel Kieffer, Michael Andreas (Mentor)
48	Illuminating Possible Causes for Lepidoptera Attraction to Artificial Lighting	Eric Anderson, Walter Goodman (Mentor)

PS#	TITLE	Presenters and Mentors
50	Bronsted-Evans-Polanyi Correlations on Heterogeneous Catalysts at High Surface Coverage	Daniel Vigil, Manos Mavrikakis (Mentor)
53	Definitions of Health by Athletes and Caregivers in Special Olympics	Rachel Gold, Karla Ausderau (Mentor)
55	The Effect of Integrated Mental Health and Primary Care for WI Patients with Severe Mental Illness	Chelsey Minten, Nancy Pandhi (Mentor)
64	Design of a Tissue--Engineered Retinal Model for Age Related Macular Degeneration	Kiersten Haffey, Kristyn Masters (Mentor)
67	Synthesis and Optimization of Cobalt Ferrite Nanoparticles for Specific Phosphoprotein Enrichment	Kunal Dani, Leekyoung Hwang (Mentor)
72	A Diffusion Approach to the Coalescence Time in Expanding Population	Zicheng Men, Wai-Tong Fan (Mentor)
74	Designing Peptide Ligands to Activate G Protein-Independent Signaling Pathway of Pthr1	Jessica Simon, Samuel Gellman (Mentor)
76	Primary Care and Public Health Collaboration	Hannah Hayes, Susan Zahner (Mentor)
78	Surgical Resident Operative Preparation and Intraoperative Learning	Kennedy Pipers, Sarah Sullivan (Mentor)
80	An Analysis of Factors Predicting Memory Loss in Alzheimer's Disease Prevention	Mingzhao Hu, Yifei Zhang, Amir Assadi (Mentor)
84	A Mysterious Shell in the Outskirts of the Milky Way	Connor Olson, Snezana Stanimirovic (Mentor)
86	Synthesis of Multipurpose Vector for Optimal Transgene Expression in Human Pluripotent Stem Cells	Richard Giza, Jennifer Umhoefer, William Murphy (Mentor)
90	Soil Particle Size Analysis in Milwaukee	Martin Calderon, Carolyn Voter (Mentor)
92	The Role of Carotenoids in Dealing With Oxidative Stress	John Bruckbauer, Rachelle Lemke, (Mentor)
94	Immunocytokine to Selectively Activate Immune Cells With IL-2 Receptors in Tumor Microenvironment	Swetha Saseedhar, Zulmarie Perez Horta (Mentor)
98	Git Version Control for Managing Shared Simulation Models	Yazeed Sabri, Laurence Loewe (Mentor)
101	Understanding Demographic Differences for Students With ASD in Clinical and Community-Based Research	Elizabeth Braunreuther, Leann Smith (Mentor)
104	Eins, Twee, Three: Heritage Trilingualism in Wisconsin	Calla Buttkie, Joseph Salmons (Mentor)
106	Diabetes-Related Stress in College Students With Type 1 Diabetes: a Qualitative Survey	Hayley Schreiter, Sarah Kruger (Mentor)
109	Frequency Dependence of Binaural Interaction in Three Auditory Evoked Potentials	Noah Meester, Cynthia Fowler (Mentor)
133	The Effects of TGF-Beta on the Growth of the FTC-238 Cell Line	Leanna Carey, Ricardo Lloyd (Mentor)
139	Biomaterial Regulation of Cell Phenotype for Vocal Fold Scarring	Sarah Wang, Susan Thibeault (Mentor)
146	Investigation of Angiogenic Properties of Murine Omentum Following Transplantation	William Xiang, Wade Bushman (Mentor)
151	The Role of MKRN3 in Puberty: Use of a High Molecular Cut Off Microdialysis Probe	Wanjia Guo, Ei Terasawa-Grilley (Mentor)
154	T-Cell Antigen Spread in Individuals With Recurrent Prostate Cancer Following Pap DNA Vaccination	Alexander Dwyer, Douglas Mcneel (Mentor)

PS#	TITLE	Presenters and Mentors
159	Investigations Into the Neural Basis of Effective Math Teaching	Grace George, Edward Hubbard (Mentor)
166	Impacts of Microbial Communities for Potato Production in Wisconsin	Diane Xue, Rachel Christenson, Richard Lankau (Mentor)
171	Understanding Lake Ecosystem Regime Shifts Through Chemical and Microbial Spatial Variability	Patrick Dowd, Robin Rohwer (Mentor)
177	Assessing 160 Year Changes in Overstory Composition of the Great Lakes National Parks	Scout Kirby, Donald Waller (Mentor)
180	Linking Ecuadorian Teachers to the Latino Earth Partnership Environmental Education Program	Brenna O'halloran, Lauren Feierstein, Brenna O'Halloran, Catherine Woodward (Mentor)
184	Using CRISPR Gene Editing to Make an Isogenic Control Line for a HiPSC Model of Congenital Blindness	Mike Schwanke, David Gamm (Mentor)
190	Effects of 2, 4-D Exposure on Thyroid Hormone Concentrations of Larvae Fathead Minnows	Morgan Walcheck, Gavin Dehnert (Mentor)
195	Disturbance Effects on the Ant Communities of Grassland Prairies	Savannah Bartel, Tania Kim (Mentor)
197	Renting Luxury Fashion	Talaidh Isaacs, Shannon Younger (Mentor)
200	Knockout of Sigma-1 Receptor Has No Significant Effect on ARPE19 Cell Viability	Annie Yao, Lianwang Guo (Mentor)
202	Role of AF9 in the Reprogramming of Mouse Embryonic Fibroblasts	César E. Martinez, Rupa Sridharan (Mentor)
207	Study of Si/SiGe Heterostructure as Qubit Device Material	Bai Yang Wang, Mark Eriksson (Mentor)
212	"Props" During Mealtime for Children With Autism: Reward and Self-Regulation	Shannon Kant, Jessica Muesbeck, Karla Ausderau (Mentor)
214	Examining the Functional Role of Fragile X Related Protein 1 (FXR1P) in Adult Neurogenesis	Kelsey Nemec, Xinyu Zhao (Mentor)
216	Effects of Triploidy and Drought on Physiology and Growth of Populus Tremuloides	Max Wrobbel, Rick Lindroth (Mentor)
220	Applications of Perceptual Geometry and Gestalt Theory of Motion in Modeling Visual Perception	Bhawesh Mishra, Hamid Eghbalian, Amir Assadi (Mentor)
225	The Effect of Bcl-2 Expression in Astrocytes on Retinal Neovascularization	Catherine Wintheiser, Christine Sorenson (Mentor)
235	The Impact of Accent on Bilingual and Monolingual Children's Novel Word Learning	Neha Paranjpe, Margarita Kaushanskaya (Mentor)
238	Sea Surface Emissivity and Temperature Measurements from the M-AERI During the Acapex Campaign	Matthew Westphall, Jonathan Gero (Mentor)
240	Nickel-Catalyzed Hydroborations of Styrenes	Eric Touney, Jennifer Schomaker (Mentor)
242	Histological Analysis of Estrogen-Induced Mammary Cancer in ACI and Emca4a5a Rats	Conor Hillert, James Shull (Mentor)
244	The Effect of Collagen Deposition in Mice Prostatic Urethras	Alexandra Walkush, Maximiliano Cisneros, Will Ricke (Mentor)
246	Color and Pattern Variation Within the Butterfly Parnassius Clodius	Mryia Hubert, Sean Schoville (Mentor)

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Posters *continued*

PS#	TITLE	Presenters and Mentors
254	Analyzing Binding Properties of Bicaudal-C and MRNA	Ian Kies, Michael Sheets (Mentor)
256	Profiling E3 Ligases: Elucidating Ubiquitin Branching	Jee Hyeon Lee, Eric Strieter (Mentor)
261	Reprogramming Msl5 to Recognize Mutant Branch Point Sequences During Spliceosome Assembly	Brexton Turner, Aaron Hoskins (Mentor)
263	Differential Diagnosis of Psychopathology: Adolescent and Parent Perspectives	Finola Kane-Grade, Hill Goldsmith (Mentor)
270	Experimental Study Comparing Methods of Quantifying Cerebral Infarction Volume	Crystal Hall, Lindsey Jager (Mentor)
274	Early Life Adversity, Depression, and Negative Memory Bias	Amy Lang, Heather Abercrombie (Mentor)
278	Moderation Effects of Early Temperament on Adolescent Callous/Unemotional Traits	Diane Hsieh, Hill Goldsmith (Mentor)
286	Development of a Coding Framework to Classify Clinical Documentation Regarding Cognition	Lily Walljasper, Andrea Gilmore Bykovskiy (Mentor)
290	Acquisition of Gender-aligned Speech in African American English	Misty Kabasa, Calvin Kosmatka, Joseph Salmons (Mentor)

Session 3:30 – 4:45 p.m.

PS#	Title	Presenters and Mentors
1	Inferring the Mutational Timeline in Human Colorectal Cancer Using Approximate Bayesian Computation	Luli Zou, Richard Halberg (Mentor)
2	The Role of Clockwork Orange and Microrna in the Drosophila Melanogaster Circadian Clock	Noah Waters, Katherine Scheuer (Mentor)
4	Stem Cell Transplantation Therapy as a Potential Therapy for Blinding Retinal Disorders	Patrick Barney, David Gamm (Mentor)
6	Effects of DVmat Expression on Depression and the Circadian Clock in Drosophila Melanogaster	Claire Nusbaum, Laurence Loewe (Mentor)
8	Learning in Cardiac Surgery	Hailey Staunton, Joe Raffiee (Mentor)
11	Groundwater-Tree Interactions in Northern Wisconsin: Implications for Forest Management	Yeline Del Carmen, Dominick Ciruzzi (Mentor)
15	MGAT2 Deficiency and Bile Acid Signaling	Jackson Moran, Chi-Liang Yen (Mentor)
17	Roommate Relationships and College Adjustment	Unmesha Pentakota, B Brown (Mentor)
19	Clarifying LTM Formation by Integrating the Influences of the Notch and Wingless Signaling Pathways	Alyssa Hotz, Katherine Scheuer (Mentor)
21	Teachology: Designing Blended Professional Learning for Teaching With Technologies	Nallely Hernandez, Lauren Fugh, Mark Hollendyke, Anna Irmiter, Kelly Zimmermann, Lindsay Stoetzel (Mentor)
23	Characterization of Pvt1 Transcripts in the 17 β -Estradiol Treated Aci Rat Model	Aaron Chack, James Shull (Mentor)
27	Derivation of Brain Microvascular Endothelial Cells from Pluripotent Stem Cells in a Defined System	Shaenah Maguire, Eric Shusta (Mentor)
29	Antimicrobial Activity of Actinobacteria Associated with the Monarch Butterfly (<i>Danaus Plexippus</i>)	Daniel Desautels, Cameron Currie (Mentor)

PS#	TITLE	Presenters and Mentors
31	The Role and Mechanism of Novel Compound in Expression of IL-17	Sagar Patel, Judith Smith (Mentor)
35	Pollen Preferences of <i>Bombus Impatiens</i> on a Colony Level Over the Course of the Foraging Season	Alexandra Kois, Danny Minahan (Mentor)
41	Preregistration of 16 and 17-Year-Old Voters: Case Studies of Hawaii and Florida	Jennifer Tasse, Barry Burden (Mentor)
43	Prevalence of Culturable Acetoin-Producing Rhizobacteria in an Organic No-Till Vegetable Field	Colton Meinecke, Amy Charkowski (Mentor)
46	Src-Family Kinase Fyn in Epithelial-Mesenchymal Transition	Meng Lou, Davalyn Powell (Mentor)
51	Fgd-Gypsum Effective in Reducing Phosphorus Levels in Urban Water Samples	Beau Rigstad, Megan Christensen, Jacob Matulle, Margaret Milford, Ellen Damschen (Mentor)
56	Epigenetic Modifying Agents Enhance Immunogenicity of Prostate Cancer Cells	Mckaylin Gamel, Joshua Lang (Mentor)
59	Muddied Waters: Water Management in Mmangweni Village, South Africa	Theoren Loo, Michael Bell (Mentor)
61	Effectiveness of Alternative Housekeeping Genes in Prostate Cancer Progression	Sean Mcsweeney, Jordan Vellky (Mentor)
62	UW-Madison Recycling and Trash Bin Inventory	Brenna George, Sabrina Bradshaw (Mentor)
63	Development and Validation of the Wisconsin Upper Respiratory Symptom Survey for Kids (WURSS-K)	Lily Comp, Supriya Hayer, Supriya Hayer (Mentor)
66	Fmrp Regulation of Adult Neural Stem Cells, Neuronal Production and Cognitive Abilities	Jessica Miller, Xinyu Zhao (Mentor)
69	Innovation in Undergraduate Learning: Collective Intelligence in Quantitative Reasoning (CinqR)	Cal Thomas, Kyle Casey, Amanda Himmerich, Amir Assadi (Mentor)
71	Contribution of Regional Organizations in Development of Human Rights	Yoo Na Song, Lisa Martin (Mentor)
75	Modeling Virus Spread and Antiviral Response as a Nonlinear Dynamical System	Nicholas Hoppe, Gheorghie Craciun (Mentor)
82	How Do Genotypes of <i>Borrelia burgdorferi</i> Vary in Time and Space in Wisconsin Ticks?	Erik Sanson, Susan Paskewitz (Mentor)
85	Relationships Among Quality and Quantity of Maternal Input and Vocabulary Size in 3-year-old Children from Diverse Backgrounds	Olan Munson, Jan Edwards (Mentor)
88	Does Nitrogen Addition Lessen the Effect of Road Salt on <i>Carex stricta</i> ?	Leah Weston, Joy Zedler (Mentor)
91	U.S. Domestic Politics of Climate Engineering	Kendl Kobbervig, Kyra Fox, Devin Judge-Lord (Mentor)
96	The Effects of Early Life Stress on Cortisol and Heart Rate in Response to Acute Stress	Nishat Hossain, Brian Leitzke (Mentor)
100	Financial Self-Sufficiency in Mexico's Microfinance Market	Terrence Satran, Stephen Young (Mentor)
103	Mindfulness and Self-Care as a Path to Better Learning	Ina Kansariwala, Supriya Hayer (Mentor)
107	Static Freezing Experiment	Nicholas Kizewski, Louis Chapdelaine (Mentor)
111	Calcium Signaling: The Interface Between Mechanical and Pathogen Response Networks	Gabrielle Li, Simon Gilroy (Mentor)
113	Developing a New Drug Safety Screen	Jonathan Silignavong, Gail Robertson (Mentor)
115	The Role of VAB-1/Eph Receptor During Epidermal Intercalation in <i>C. elegans</i>	Hunter Cochran, Elise Walck-Shannon (Mentor)

PS#	TITLE	Presenters and Mentors
117	CRISPR-Cas9 Mediated Split Gfp as Screening Tool and Potential Way of Live Imaging Proteins	Samantha Sison, Kathaleen Oconnor-Giles (Mentor)
119	Interrelations Between Empathy, the Anterior Cingulate Cortex, and Emotional Responses	Ben Hushek, Stacey Schaefer (Mentor)
121	Isolating the Signaling Molecules of Ectomycorrhizal Fungi	Kimberly Schnell, Kevin Cope (Mentor)
123	Estimating Intergenerational Elasticity of Skills	Joseph Deguire, Steven Durlauf (Mentor)
126	Why Not Ask Potential Users What They Love Or Hate About Programming Languages?	Andrew Zietlow, Laurence Loewe (Mentor)
129	Wisconservation, Reducing Waste Through Education in the Residence Halls	Kyle Powers, Jill Sakai (Mentor)
131	Changes to the Nitrogen Cycle in Wisconsin Prairies Over the Past 60 Years	Lauren Jensen, Laura Ladwig (Mentor)
134	Os79 Enzyme Combats Fusarium Head Blight	Kaitlyn Gabardi, Ivan Rayment (Mentor)
136	A Comparison of Strength Changes and Cellular Response Using Primed MSCS on Injured Rat MCL	Joshua Choe, Connie Chamberlain (Mentor)
138	Validating the Lifetime Total Physical Activity Questionnaire	Pauline Ngo, Elisa Torres (Mentor)
140	PAD4 Is Dispensable for B Cell Recruitment Into Inflamed Lungs in TNF-Alpha Overexpressing Mice	Chloe Peyton, Miriam Shelef (Mentor)
142	Sibling Dynamics in Children With Autism Spectrum Disorder	Lilyan Cohen, Sigam Hartley (Mentor)
144	Use and Efficacy of Cognitive-Behavioral Strategies for Sleep Disturbance in Advanced Heart Failure	Alexandra Rushmer, Kristine Kwekkeboom (Mentor)
147	Effect of ENSO on Precipitation Distributions	Junior Quintero, Brian Zimmerman (Mentor)
149	Detecting Origin of Expansion in the Biased Voter Model	Craig Knuth, Xiaoyi Yang, Wai-Tong Fan (Mentor)
152	Distributed Memory Fluid-Solid Interaction Simulations	Felipe Gutierrez, Dan Negrut (Mentor)
155	Little Free Libraries: Do It Yourself Neighborhood Planning and Spatial Inequality	Chelsea Simek, Carolina Sarmiento (Mentor)
157	Mitochondrial DNA Analysis of Isolated Populations of the Montane Butterfly: Parnassius Clodius	Bailey Wolding, Sean Schoville (Mentor)
161	Standardizing ELISA Protocols in the Evaluation of Neuroblastoma Clinical Trials	Amal Javid, Jacquelyn Hank (Mentor)
163	Investigating Engraftment of Motor Neuron Progenitors	Akshitha Sreeram, Randolph Ashton (Mentor)
165	Age-Dependent Microglial Responses to Hypoxia-Ischemia in the Developing Brain	Alex Waldman, Peter Ferrazzano (Mentor)
167	Fmri Investigations of Multisensory Integration of Number	Kimberly Crow, Edward Hubbard (Mentor)
169	Comparing Areas of Disagreement Among Young Adult Dating Couples and Empty Nest Couples	Katie Sullivan, Kristen Krueger, Lauren Papp (Mentor)
172	Efficacy of Two Hand Hygiene Methods for Clostridium Difficile Spore Removal	Caroline Zellmer, Nasia Safdar (Mentor)
174	Deconstructing Constructions of Domesticity: an Examination of the Ladies' Home Journal in the 1950s	Anna Lynn, James Baughman (Mentor)
176	Influence of Temperature on Fiber Optic Cables	Noah Gueron, Francis Halzen (Mentor)

PS#	TITLE	Presenters and Mentors
179	Development of a Boronic Acid Based Antioxidant	Alexander Peterson, Thomas Smith (Mentor)
181	In Vivo Modeling of Metastasis Using a Prostate Cancer Progression Cell Line	Katelin Cunningham, Dalton Mclean (Mentor)
183	Product Bundling as a Behavioral Nudge to Increase Consumer Fruit and Vegetable Selection	Madeleine Jones, Kathryn Carroll (Mentor)
186	Building an Accessible Database of Patient Experience for the United States	Mark Raphael Conti, Nancy Pandhi (Mentor)
187	Chip-Seq Reveals MIRNA61-250 as a Notch Target Gene in Germline Stem Cells	Emma Doenier, Erika Sorensen-Kamakian (Mentor)
189	Preschoolers' Word Learning from ebooks Vs. Print Books	Jenna Tabatchnick, Megan Gates, Kylie Markeland, Haley Steffanus, Heather Kirkorian (Mentor)
191	An Examination of Health Equity and Social Inclusion in the National School Lunch Program	Julia Machgan, Toni Castro, Elizabeth Schnee, Kelly Weldon, Maddie Wiliński, Jennifer Gaddis (Mentor)
193	Body Mass Index and Inflammation Among Cancer Patients Recovering from Stem Cell Transplantation	Lillian Zheng, Erin Costanzo (Mentor)
198	Quantification of Endogenous SIRT3 in Mammalian Liver Mitochondria	Nicole Rademacher, John Denu (Mentor)
203	Sputtering Deposition of Metallic Thin Films	Malcolm Clark, Paul Voyles (Mentor)
205	Particle Size Analysis: a Comparison of Methods	Sanobar Mirza, Erika Marin-Spiotta (Mentor)
209	Density Mapping of Retinal Ganglion Cells in Glaucoma	Gopika Senthikumar, Gillian Mclellan (Mentor)
211	Strategies to Improve Allogeneic Bone Marrow Transplant Using Immunocytokine	Madeline Adam, Christian Capitini (Mentor)
218	Young Adults' Experiences Managing Depression	Huda Khokhar, Nancy Pandhi (Mentor)
222	Investigating the Function of Baculovirus LEF7	Jaime Brown, Nathaniel Byers (Mentor)
224	Influence of Temperature on Fiber Optic Cables	Noah Gueron, Francis Halzen (Mentor)
226	Collaborative Learning in Advanced General Chemistry	Lucas Oxtoby, Mark Bollom, Kristopher Kennedy, Sally Wu, John Moore (Mentor)
228	Disparities in Healthcare as Perceived by Individuals Identifying as Transgender	Katie Hall, Alexa Callahan, Jay Klamer, Lindsay Morris, Lisa Pine, Carleigh Sher, Elisa Torres, Regina Vanderlinden, Brittany Wright, Elisa Torres (Mentor)
230	Methods of Fine Motor Skill Assessment in Rats: a Comparison	Megan Gilbertson, Lindsey Jager (Mentor)
232	Neural Mechanisms Supporting Multisensory Integration of Number	Jennifer Hathaway, Grace George, Cooper Siepman, Edward Hubbard (Mentor)
234	Novel Gene Identification and Analysis Using RNAi Knockdown and CRISPR-Cas9 Screen Techniques	Grace Heglund-Lohman, Kate O'connor-Giles (Mentor)
237	Transgenerational Responses	Elvis Vidal, Bermans Iskandar (Mentor)
243	Investigating the Phylogeny of Fibrobacter Isolates from Various Herbivores	Caroline Mccormick, Anthony Neumann (Mentor)
248	Toddlers' Attention in the Presence of Background Television	Brooke Stanek, Melanie Blaser, Britta Gutschenritter, Kaelyn Schreiner, Heather Kirkorian (Mentor)
250	Do Resident's Operative Leadership Skills Correlate With Self-Assessments of Technical Skill?	Samantha Gannon, Shannon Dimarco (Mentor)

PS#	TITLE	Presenters and Mentors
252	How Are College Students Balancing Academic and Social Demands at UW-Madison?	Taylor Keaton, B Brown (Mentor)
258	Benefits of Maternal Contact and Breast Milk for Gut Microbiome Maturation of Infant Rhesus Monkeys	Emily Orals, Christopher Coe (Mentor)
260	Plumbagin, a Plant-Derived Naphthoquinone, Inhibits Growth of Docetaxel Resistant Prostate Cancer	Satyamedha Bathula, Ajit Verma (Mentor)
264	Origin and Development of the Binary Arabic Comparative	Neda Sattler, Joe Salmons (Mentor)
266	Gelatin-Peg Hydrogel as a Flexible, Long Duration 3D Cell Culture System	Joseph Vecchi, W. Kao (Mentor)
268	Characterization of an Apoptotic-Like Cell Death Regulator in Aspergillus Nidulans	Mikaela Breunig, Mehdi Kabbage (Mentor)
271	Understanding the Role of Tyrosine 1101 in the Nuclear Translocation of the EGFR	Bailey Flanigan, Deric Wheeler (Mentor)
273	The Relationship Between Positive Memories and Behavior Problems in Children with ASD	Megan Gray, Sigan Hartley (Mentor)
275	Analysis of Defects in Crystalline Silicon-Germanium Nanomembranes	Maja Lazarevic, Max Lagally (Mentor)
277	Synthesis of Medium-Chain Methyl Ketones in Free Fatty Acid Overproducing Escherichia Coli	Rottinghaus Austin, Brian Pflieger (Mentor)

PS#	TITLE	Presenters and Mentors
280	Optimization of Tongue Muscle Fiber Cross-Sectional Area Analysis	Allison Hare, Heidi Kletzien (Mentor)
282	Student Perceptions of Their Major and How It Impacts Involvement	Joel Stibbe, Michael Callahan, Walter Dekock, Jake Glading, Jiayue He, Matt Van Ommeren, Deanna Zernicke, Elizabeth Foste (Mentor)
284	Analysis of the Human Gut Microbiota Using C-Type Lectin Probes	Sheila Johnson, Gavin Dillavou-Brown, Chariesse Ellis, Laura Kiessling (Mentor)
288	Implementation of Powassan Virus Assay Via Concurrent Extraction of Ixodes Scapularis DNA and RNA	Sydney Potts, Susan Paskewitz (Mentor)
291	Automated Isolation of Circulating Tumor Cells to Optimize and Improve Specificity of Identification	Zachery Schultz, Joshua Lang (Mentor)
293	Gender Specific Attributes of Ground Reaction Pressures During the Snatch	Annie Gallagher, Kristen Pickett (Mentor)
296	Effects of Qda Software Consulting on UW Extension Educators' Use of Qualitative Datasets	Ezad Mazlan, Christian Schmieder (Mentor)
298	A Proposed Role for Melatonin: Circadian Regulation in Drosophila Melanogaster	Erik Nolan, Katherine Scheuer (Mentor)

2016 Student Presenters

Last Name, First	Type	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Abramczak, Chester	PS	I	VH	148	Chowhan, Prithvi	T	III	LM-A	203	Gamel, McKaylin	PS	III	VH	56
Adam, Madeline	PS	III	VH	211	Clark, Malcolm	PS	III	VH		Gannon, Samantha	PS	III	VH	250
Aiken, Laura	PS	I	VH	276	Clayton, Lyndsey	PS	I	VH	97	Garcia-Olmos, Karen	T	III	NW-B	
Alsawaf, Sarah	T	II	LM-B	108	Cochran, Hunter	PS	III	VH	115	Gates, Jordan	PS	I	VH	77
Amundson, Lindsey	PS	I	VH		Cohen, Lilyan	PS	III	VH	142	Genthe, William	T	I	TR	
Anderson, Eric	PS	II	VH	48	Comp, Lily	PS	III	VH	63	George, Brenna	PS	III	VH	62
Andrie, Rachel	T	II	Ag-A	277	Conti, Mark Raphael	PS	III	VH	186	George, Grace	PS	II	VH	159
Arriaga, Alexandra	LS	II	SW		Cottrell, Olivia	T	II	Ag-A	167	Gerhart, Christian	T	I	Ag-A	
Austin, Rottinghaus	PS	III	VH		Coutinho, Carol	T	III	AL		Gilbertson, Megan	PS	III	VH	230
Awe, Adam	T	I	LM-B	255	Craemer, Katherine	T	I	WI		Gill, Noah	T	II	NW-B	
Ba, Aisha	PS	I	VH		Crow, Kimberly	PS	III	VH		Giza, Richard	PS	II	VH	86
Backlund, Emma	PS	I	VH	83	Cunningham, Katelin	PS	III	VH	181	Goethel, Andrew	T	III	Ag-A	
Barney, Patrick	PS	III	VH	4	Dahlke, Ross	T	I	NW-B	156	Goetz, Cody	T	II	NW-B	
Bartel, Savannah	PS	II	VH	195	Dallmann, McKenna	PS	I	VH		Gold, Rachel	PS	II	VH	53
Bathula, Satyamedha	PS	III	VH	260	Dani, Kunal	PS	II	VH	67	Gorall, Sarah	T	I	WI	
Bednarek, Gina	T	I	Ag-B	262	Darlington, Robert	PS	I	VH	162	Gordon, Sela	T	III	TR	
Beltrame, Amanda	PS	I	VH		Dawson, Jamie	PF	III	MT		Grange, Sara	PS	I	VH	145
Berger, Bruce Jake	PS	I	VH	137	DeGuire, Joseph	PS	III	VH	123	Grant, Elizabeth	PS	I	VH	99
Berning, Michelle	T	III	AL	95	Deitz, Wilder	T	II	AL		Gray, Megan	PS	III	VH	273
Bilkey, Natasha	PS	I	VH		Del, Carmen Yeline	PS	III	VH	11	Greene, Sean	T	II	LM-B	
Bin, Salem Faisal	PS	I	VH	175	Delvaux, Nathan	PS	I	VH	257	Gueron, Noah	PS	III	VH	176
Bireley, Madeline	T	I	LM-B	127	Derynda, Brittany	PS	I	VH	297	Gueron, Noah	PS	III	VH	224
Biswas, Aniket	PS	I	VH		Desautels, Daniel	PS	III	VH	29	Guevara, Miriam	T	III	NW-B	
Blanke, Samantha	PS	I	VH	185	Devine, Alexandra	PS	I	VH	239	Guo, Wanja	PS	II	VH	151
Bodart, Lindsay	LS	I	SW	102	Dewanjee, Aditya	PS	I	VH	153	Gutierrez, Felipe	PS	III	VH	152
Bolles, Marcus	PS	I	VH		Diny, Michael	PR	II	VH		Gutschenritter, Britta	PS	I	VH	160
Brauer, Alexander	T	I	AL	101	DiPoto, Meggie	PS	II	VH	39	Guzman, Enrique	LS	I	SW	
Braunreuther, Elizabeth	PS	II	VH		Doenier, Emma	PS	III	VH	187	Haas, Lisa	PS	I	VH	245
Bravo, William	LS	III	SW	268	Dowd, Patrick	PS	II	VH	171	Hackett, Kelsey	T	II	WI	
Breunig, Mikaela	PS	III	VH		Dudley, Christina	PS	I	VH	201	Haefner, Morgan	T	III	IN-A	
Brown, Jaime	PS	III	VH	222	Dumar, Zach	T	III	Ag-A		Haffey, Kiersten	PS	II	VH	64
Bruce, Brandon	LS	I	SW	92	Dwyer, Alexander	PS	II	VH	154	Hailey, Shanovich	T	III	WI	
Bruckbauer, John	PS	II	VH		Ehlers, Alissa	PS	II	VH	18	Hall, Katie	PS	III	VH	228
Brudny, Marisa	PS	I	VH	208	Ehlers, Alexander	PS	I	VH	116	Hall, Crystal	PS	II	VH	270
Buehler, Alexander	T	III	LM-A	104	Erb, Elizabeth	T	II	IN-B		Hall, Crystal	T	I	IN-A	
Buttar, Seah	T	I	Ag-A		Esbensen, Karyn	PS	I	VH	182	Hanna, Daniel	PS	I	VH	221
Buttke, Calla	PS	II	VH		Fadhil, Anisa Yasmin	PS	I	VH	124	Hanna, Rewais	T	I	AL	
Cairns, Delaney	LS	I	SW	90	Fan, Zeng	T	I	FN		Hare, Allison	PS	III	VH	280
Calderon, Martin	PS	II	VH		Feigenson, Thomas	T	II	FN		Harris, Brennan	T	I	Ag-B	
Calixto, Montserrat	PS	I	VH	38	Fiers, Rebekah	PS	I	VH	249	Hartzheim, Erika	T	III	IN-A	
Callaghan, Mary	T	II	NW-B	133	Fischer, Julie	T	I	TR		Hathaway, Jennifer	PS	III	VH	232
Canda, Claire-Marie	T	III	AL		Fisher, Michael	PS	I	VH	87	Hawn, Jaide	PS	II	VH	33
Cano, Nahin	T	I	TR		Flanigan, Bailey	PS	III	VH	271	Hayes, Hannah	PS	II	VH	76
Canton, Aaron	T	III	LM-A		Foley, Tyler	T	II	Ag-A		Hayes, Katherine	T	III	TR	
Carey, Leanna	PS	II	VH		Ford, Connor	PS	I	VH	227	Heglund-Lohman, Grace	PS	III	VH	234
Carlson, Mackenzie	PS	I	VH	30	Fox, Kyra	LS	III	SW		Heiderscheidt, Evan	PS	I	VH	128
Carreno, Martha	PS	II	VH	28	Frautschi, Callie	LS	II	SW		Hernandez, Nallely	PS	III	VH	21
Cesarz, Taylor	PS	I	VH	204	Gabardi, Kaitlyn	PS	III	VH	134	Herzog, Nora	T	II	Ag-B	
Chack, Aaron	PS	III	VH	23	Gableman, Angela	PS	II	VH	26	Hillert, Conor	PS	II	VH	242
Charly, Nithin	T	II	IN-B	136	Gallagher, Annie	PS	III	VH	293	Hilliard, Nathaniel	T	II	FN	
Choe, Joshua	PS	III	VH		Gallenberger, Mikayla	PS	I	VH	287	Hoker, Stephanie	T	I	NW-B	
					Gambucci, Mia	PS	II	VH	9	Hong, Felissa	T	I	WI	

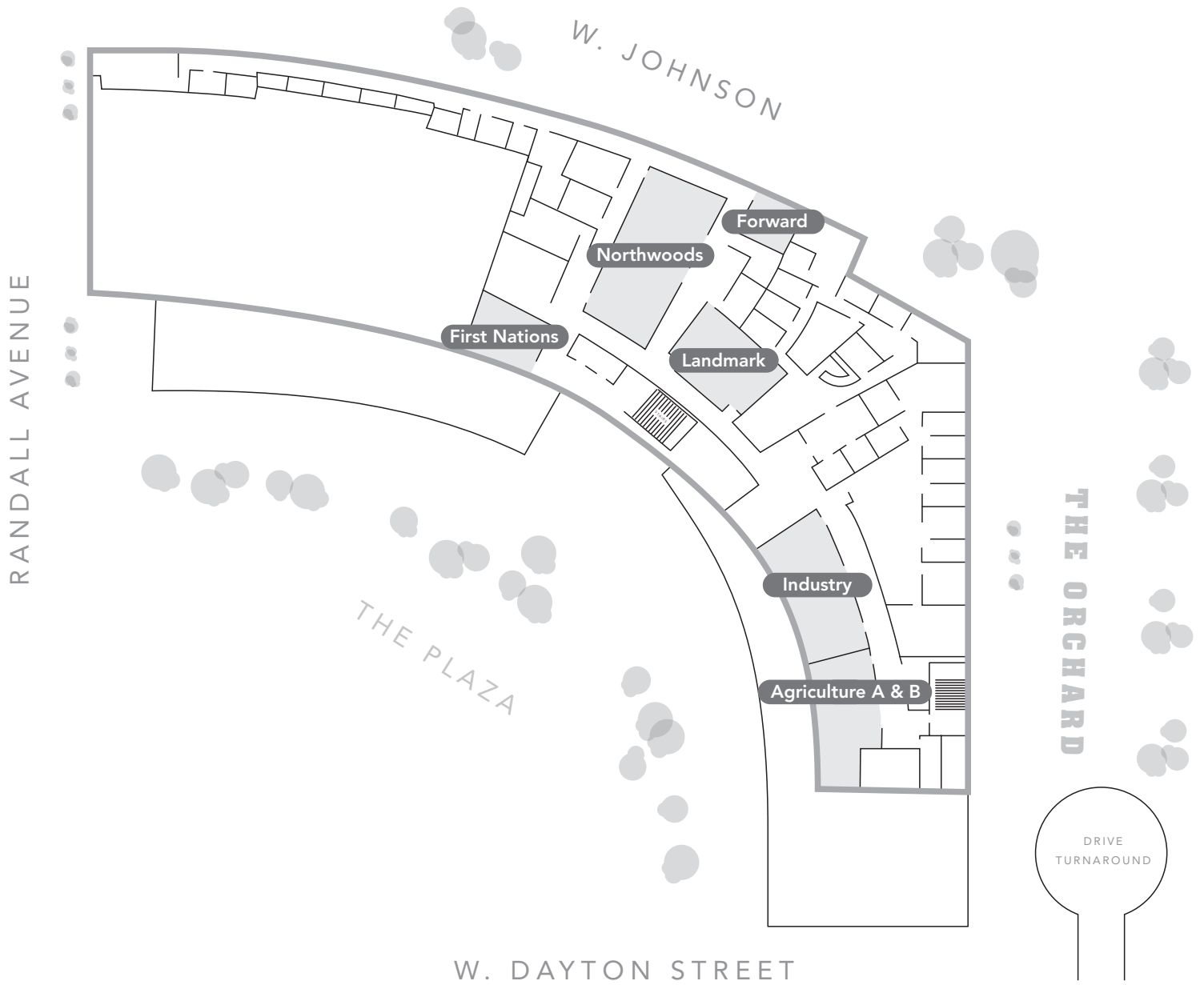
Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Hoppe, Nicholas	PS	III	VH	75	Kochanski, Jade	PS	II	VH	24	McSweeney, Sean	PS	III	VH	61
Hosokawa, Emily	PS	I	VH	32	Kohlenberg, Lucille	T	I	TR		Mech, Emily	T	II	NW-B	
Hossain, Nishat	PS	III	VH	96	Kois, Alexandra	PS	III	VH	35	Meester, Noah	PS	II	VH	109
Hotz, Alyssa	PS	III	VH	19	Krenzke, Eli	PS	I	VH	231	Meinecke, Colton	PS	III	VH	43
Hoyer, Matt	PS	II	VH	42	Krier, Sarah	T	II	IN-A		Men, Zicheng	PS	II	VH	72
Hsieh, Diane	PS	II	VH	278	Krzyzaniak, Kaitlyn	PS	I	VH	241	Menendez, David	T	I	Ag-B	
Hsieh, Ta Yang	T	I	Ag-B		Kunsel, Tenzin	PS	I	VH	7	Meurer, Grace	AT	II	MT	
Hu, Mingzhao	PS	II	VH	80	Kurup, Meghna	PS	I	VH	236	Mihalovic, Glennie	T	III	NW-B	
Hubert, Mryia	PS	II	VH	246	Kwok, Susanna	LS	III	SW		Milavetz, Zoe	PS	I	VH	215
Hupy, Matthew	PS	I	VH	217	Lambeau, Halle	T	III	GV		Miller, Jessica	PS	III	VH	66
Hushek, Ben	PS	III	VH	119	Lang, Amy	PS	II	VH	274	Miller, Colleen	T	I	IN-A	
Huynh, Joann	PS	I	VH	5	Lange, Evan	PS	II	VH	37	Minten, Chelsey	PS	II	VH	55
Isaacs, Talaidh	PS	II	VH	197	Larson, Anna	PS	I	VH	73	Mirza, Sanober	PS	III	VH	205
Janz, Joseph	T	I	AL		Laudon, Sarah	T	I	NW-B		Mishra, Bhawesh	PS	II	VH	220
Javaid, Amal	PS	III	VH	161	Lauko, Adam	T	II	Ag-A		Moran, Jackson	PS	III	VH	15
Jennings, Bevin	PS	I	VH	49	Lawrence, Erin	T	I	GV		Morgan, Christopher	T	III	TR	
Jensen, Lauren	PS	III	VH	131	Lazarevic, Maja	??	III	VH	275	Muesbeck, Jessica	T	II	NW-B	
Jiang, Katherine	T	III	Ag-A		Lee, Jee Hyeon	PS	II	VH	256	Mulholland, Haleigh	PS	I	VH	272
Johnson, Nicole	PS	I	VH	70	Lee, Pa Zao	T	III	NW-B		Munson, Olan	PS	III	VH	85
Johnson, Sam	PS	I	VH	118	Lema, Jay	LS	III	SW		Nazari, Salsabila	T	III	GV	
Johnson, Sheila	PS	III	VH	284	Lense, Kimberly	T	III	LM-B		Nemec, Kelsey	PS	II	VH	214
Johnson, Noah	T	II	FN		LeVesque, Brad	T	III	WI		Nestingen-Palm, David	PS	I	VH	44
Johnson, Luke	AT	II	MT		Li, Gabrielle	PS	III	VH	111	Nestler, Anthony	PS	I	VH	192
Jones, Madeleine	PS	III	VH	183	Li, Shiyong	T	III	LM-B		Nettesheim, Emily	PS	I	VH	12
Jun, Brian	T	I	LM-A		Lindberg, Julia	T	II	LM-B		Nettesheim, Emma	PS	I	VH	112
Junjie, Xu	LS	III	SW		Linton, Daniel	PS	I	VH	36	Neufcourt, sarah	PS	I	VH	105
Kabasa, Misty	PS	II	VH	290	Lipscomb, Tashiana	LS	II	SW		Newman, Joshua	T	II	IN-A	
Kane-Grade, Finola	PS	II	VH	263	Loberger, Sonya	PS	I	VH	210	Ng, Daniel	T	I	NW-B	
Kang, Malcolm	T	II	LM-B		Loo, Theoren	PS	III	VH	59	Ngo, Pauline	PS	III	VH	138
Kansariwala, Ina	PS	III	VH	103	Loosen, Julia	PS	I	VH	259	Nhieu, Diane	PS	I	VH	150
Kant, Shannon	PS	II	VH	212	Lou, Meng	PS	III	VH	46	Nolan, Erik	P	III	VH	298
Karstensen, Maryatt	PS	I	VH	125	Lou, Wanying	PS	I	VH	289	Nowak, Tayler	PS	I	VH	292
Katz, Emily	PS	I	VH	265	Lucas, Megan	LS	III	SW		Nusbaum, Claire	PS	III	VH	122
Keaton, Taylor	PS	III	VH	252	Lundeen, William	PS	I	VH	281	O'Halloran, Brenna	PS	II	VH	6
Kellner, Anna	PS	I	VH	164	Luo, George	PS	I	VH	294	Oakes, Steven	PS	I	VH	180
Kelly, Conlain	DI	I	VH		Lupinek, Madalyn	PS	I	VH	168	Oh, Junho	PS	I	VH	196
Kelnhofer, Laurel	PS	I	VH	194	Luu, Gina	PS	I	VH	219	Olmsted, Charles	PS	I	VH	285
Kemnitz, Jack	T	II	IN-B		Lynch, John	T	I	LM-A		Olson, Connor	PS	II	VH	84
Kersten, Marjorie	PS	I	VH	20	Lynn, Anna	PS	III	VH	174	Olson, Guy	LS	I	SW	
Khokhar, Huda	PS	III	VH	218	Machgan, Julia	PS	III	VH	191	Orals, Emily	PS	III	VH	258
Khoo, Jia Hui	PS	I	VH	16	Maguire, Shaenah	PS	III	VH	27	Orke, Samuel	T	II	IN-B	
Kieffer, Daniel	PS	II	VH	45	Marc, D'Antonio	PS	I	VH	93	Osborn, Dakota	PS	I	VH	65
Kies, Ian	PS	II	VH	254	Martens, Kylee	T	II	FN		Ostermeier, Anna	PS	I	VH	199
Kim, Mansu	PR	III	VH		Martinez, César E.	PS	II	VH	202	Oxtoby, Lucas	PS	III	VH	226
Kirby, Scout	PS	II	VH	177	Mason, Kevin	T	I	FN		Paine, Paxton	T	III	Ag-A	
kizaric, Matthew	T	II	IN-B		Mathee, Janine	T	II	TR		Paranjpe, Neha	PS	II	VH	235
Kizewski, Nicholas	PS	III	VH	107	Matoba, Mary	PS	I	VH	132	Patel, Sagar	PS	III	VH	31
Kleinhans, Anna	PS	I	VH	135	Mazlan, Ezad	PS	III	VH	296	Pearson, Hannah	T	I	WI	
Knaack, Darcy	T	I	LM-B		McBee, Cassidy	PS	I	VH	206	Pentakota, Unmesha	PS	III	VH	17
Knoppke-Wetzels, Heide	PS	I	VH	223	McCormick, Caroline	PS	III	VH	243	Pereyra, Matthew	T	I	LM-A	
Knuth, Craig	PS	III	VH	149	McGrath, Katherine	PS	I	VH	10	Perry, Josh	T	II	FN	
Kobbervig, Kendl	PS	III	VH	91	McLaughlin, Margaret	T	I	GV		Peterson, Alexander	PS	III	VH	179

Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Peyton, Chloe	PS	III	VH	140	Schnell, Kimberly	PS	III	VH	121	Valdez, Joaquin	PS	I	VH	110
Phillips, Brandon	LS	I	SW		Schreiter, Hayley	PS	II	VH	106	van, Duysen Kevin	T	I	FN	
Piehl, Audrey	T	I	GV		Schultz, Zachery	PS	III	VH	291	Vang, Maiyer	PS	I	VH	52
Piolet, Janiece	T	III	LM-A		Schwanke, Mike	PS	II	VH	184	Vargas, Jazmin	LS	II	SW	
Pipers, Kennedy	PS	II	VH	78	Seeley, Megs	T	I	IN-A		Vecchi, Joseph	PS	III	VH	266
Plaisance, Camille	T	III	TR		Sendelbach, Danielle	PS	I	VH	158	Vemuganti, Tejaswini	T	II	IN-A	
Plantz, Joshua	PS	I	VH	188	SenthilKumar, Gopika	PS	III	VH	209	Vidal, Elvis	PS	III	VH	237
Ploumidis, Elizabeth	PS	I	VH	81	Seymour, Stephanie	T	II	Ag-B		Vigil, Daniel	PS	II	VH	50
Pollard, Anna	T	I	Ag-A		Shaw, Teresa	LS	II	SW		Villalpando, Meghan	T	III	IN-A	
Potts, Sydney	PS	III	VH	288	Shelby, Kuenzli	LS	II	SW		Villanueva, Andrew	PS	I	VH	170
Powers, Kyle	PS	III	VH	129	Shim, Daeun	T	III	WI		Voruganti, Nihal	T	II	Ag-A	
Prairie, Michael	T	III	AL		Shumaker, Heather	PS	I	VH	54	Wahl, Colin	T	III	IN-B	
Praska, Corinne	PS	I	VH	60	Shuqi, Yu	T	III	IN-B		Walcheck, Morgan	PS	II	VH	190
Prestil, Ryan	T	III	Ag-A		Sijapati, Shakher	PS	I	VH	68	Waldman, Alex	PS	III	VH	165
Prihoda, Michelle	T	II	TR		Silignavong, Jonathan	PS	III	VH	113	Walkush, Alexandra	PS	II	VH	244
Prudhom, Ashley	PS	I	VH	233	Simek, Chelsea	PS	III	VH	155	Walljasper, Lily	PS	II	VH	286
Qin, Yiming	PS	I	VH	178	Simon, Jessica	PS	II	VH	74	Wang, Sarah	PS	II	VH	139
Quintero, Junior	PS	III	VH	147	Sison, Samantha	PS	III	VH	117	Wang, Bai Yang	PS	II	VH	207
Rademacher, Nicole	PS	III	VH	198	Sleiman, Hana	T	II	Ag-B		Wang, Xueyan	AT	II	MT	
Ranade, Tarjani	PS	I	VH	267	Smiley, Sarah Rose	T	III	IN-A		Warrington, Lorenzo	PS	I	VH	25
Randle, Helena	PS	I	VH	114	Smith, Hailey	T	II	AL		Waters, Noah	PS	III	VH	2
Rebernick, Ryan	PS	I	VH	247	Somers, Whistler	T	II	AL		Weber, Benjamin	T	I	LM-A	
Reilly, Chelsi	PS	I	VH	22	Song, Yoo Na	PS	III	VH	71	Weisnicht, Allison	PS	I	VH	
Reisenauer, Keighley	PS	I	VH	251	Sorenson, Thomas	T	III	WI		Weldon, Kelly	T	III	LM-B	40
Rentmeester, Kyle	LS	I	SW		Sreeram, Akshitha	PS	III	VH	163	Weston, Leah	PS	III	VH	88
Richards, Thomas	PS	I	VH	120	Stanek, Brooke	PS	III	VH	248	Westphal, Josh	T	I	LM-A	
Richie, Jacob	T	I	LM-B		Staunton, Hailey	PS	III	VH	8	Westphall, Matthew	PS	II	VH	238
Rigstad, Beau	PS	III	VH	51	Steger, Joshua	T	II	IN-A		Wildes, Jennifer	AT	II	MT	
Roach, Edel	T	II	AL		Steinberger, Andrew	PS	I	VH	295	Winkler, Kyle	PS	I	VH	143
Roach, Lauren	LS	III	SW		Stewart, Matthew	PR	III	VH		Wintheiser, Catherine	PS	II	VH	225
Rol, Rachael	T	III	AL		Stibbe, Joel	PS	III	VH	282	Witt, Anna	PS	I	VH	141
Romenesko, Elaine	PS	I	VH	3	Strange, Alexander	PR	III	VH		Wlodarski, Nicole	PS	I	VH	79
Romero, Roberto	LS	III	SW		Stringer, Brandon	PS	I	VH	173	Wolding, Bailey	PS	III	VH	157
Rosenberg, Joel	LS	II	SW		Strother, Andrew	T	I	IN-A		Wrobbel, Max	PS	II	VH	216
Rudnitzky, Philip	T	II	WI		Suhre, Morgan	PS	I	VH	269	Xiang, William	PS	II	VH	146
Rushmer, Alexandra	PS	III	VH	144	Sullivan, Katie	PS	III	VH	169	XIE, ChiChi	T	I	WI	
Ryu, Jane	T	II	Ag-B		Suresh, Adarsh	PS	I	VH	229	Xiong, Megan	T	III	LM-B	
Sabri, Yazeed	PS	II	VH	98	Swee, Colin	PS	I	VH	14	Xiong, Steven	LS	III	SW	
Sailer, Torie	T	I	AL		Sweeney, Erin	PS	PW	VH	47	Xu, Yufan	T	III	IN-B	
Sandner, Robin	T	III	GV		Tabatchnick, Jenna	PS	III	VH	189	Xu, James	T	I	TR	
Sanson, Erik	PS	III	VH	82	Tasse, Jennifer	PS	III	VH	41	Xue, Diane	PS	II	VH	166
Saseedhar, Swetha	PS	II	VH	94	Taylor, Desiree	PS	I	VH	57	Yang, Aylee	PS	I	VH	283
Satran, Terrence	PS	III	VH	100	Thao, Sandie	LS	III	SW		Yang, Pakou	LS	II	SW	
Sattler, Neda	PS	III	VH	264	Thelen, Julie	PS	II	VH	13	Yao, Annie	PS	II	VH	200
Sawtelle, Hailey	PS	I	VH	34	Thomas, Cal	PS	III	VH	69	Zdechlik, Alina	PS	I	VH	130
Schacht, Conner	PS	I	VH	213	Thompson, Courtney	T	II	AL		Zellmer, Caroline	PS	III	VH	172
Schaen, Nicole	T	II	TR		Touney, Eric	PS	II	VH	240	Zheng, Lillian	PS	III	VH	193
Schleif, Nathaniel	PS	I	VH	89	Transon, Brigid	PF	III	MT		Zhu, Keren	PS	I	VH	279
Schmer, Natalie	PS	I	VH	253	Turner, Brexton	PS	II	VH	261	Zietlow, Andrew	PS	III	VH	126
Schmidt, Stephanie	T	III	GV		Turner, Meghan	T	I	Ag-A		Zou, Luli	PS	III	VH	1
Schmitt, Laura	LS	II			Usmani, Rayyaan	LS	I	SW						
Schneider, Matthew	T	I	LM-B		Vakil, Nina	T	III	IN-B						

Union South Level 2



Union South Level 3



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undergraduate academic and creative work at the

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Thursday, April 14, 2016

4:45 – 6 p.m.

Union South – Varsity Hall

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Steven M. Cramer, Vice Provost for Teaching and Learning

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who want to learn about student projects

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