

PROGRAM 2013

UNIVERSITY OF WISCONSIN—MADISON

# Undergraduate Symposium

Celebrating research,  
creative endeavor and  
service-learning



 an **ideas**  
to Excellence event

# Undergraduate Symposium 2013

## Celebrating Research, Creative Endeavor and Service-Learning

University of Wisconsin–Madison

Union South

April 18, 2013

9:00 a.m. – 5:00 p.m. Registration – Varsity Hall I Entrance

Noon – 12:25 p.m. Welcome Remarks and Awards – Varsity Hall

### *Welcome to Student Participants*

#### *Celebrating Undergraduate Education at a Research University*

Christopher Olsen, Interim Vice Provost for Teaching and Learning

### *Undergraduate Research Awards*

Kelli Keclik, Public Services Librarian

College Library

12:30 – 2:00 p.m. Session I: Talks, Roundtables, Digital Salon, Project Displays, and Posters

2:15 – 3:30 p.m. Session II: Talks, Roundtables, Digital Salon, Project Displays, and Posters

3:45 – 5:00 p.m. Session III: Talks, Roundtables, Digital Salon, Project Displays, and Posters

4:30 – 5:00 p.m. Meet the artists – Varsity Hall

5:00 – 6:00 p.m. *Ideas to Excellence* Reception – Varsity Hall

6:00 – 8:00 p.m. Performance Workshop, The Sett

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

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

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We would like to thank our major sponsors and partners:

*Brittingham Trust*

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*General Library System*

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*Institute for Biology Education*

*University Communications and Marketing*

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*2013 Undergraduate Symposium Organizing Committee:* Jane Harris Cramer, Maya Holtzman, Svetlana Karpe, Kelli Keclik, Linda Kietzer, Laurie Mayberry, Janice Rice, Julie Stubbs, Beth Tryon, and Grace Welham (coordinator).

A special thanks is also extended to Stephanie Diaz de Leon of The Wisconsin Union; Patricia Iaccarino and Carrie (Carolyn) Kruse at College Library; and Jeff Crucius of the Division of Information Technology.



## Key

### Format

DI	Digital Salon
PF	Performance
PS	Poster
PR	Project Display
RT	Roundtable Session
T	Talk

### Session Time

I	Session 1: 12:30–2:00 p.m.
II	Session 2: 2:15–3:30 p.m.
III	Session 3: 3:45–5:00 p.m.
PW	Performance Workshop: 6:00–8:00 p.m.

### Room

Ag-A,B	Agriculture-A,B
AL	Alumni
FN	First Nations
FO	Forward
GV	Governance
IN	Industry
LM-A,B	Landmark-A,B
SC	Scholars
ST	The Sett
SW	Sift & Winnow
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 3:45–5:00 pm in Varsity Hall. The poster number is 123.

## Virtual Gallery

### Varsity Hall

Kailey Barthel, Julie Ganser (Mentor)  
Jennika Bastian, Fred Stonehouse (Mentor), Leslie Smith III (Mentor)  
Brittany Bruening, John Hitchcock (Mentor)  
Henry Erdman, Mark Stafford (Mentor)  
Carlos Eduardo Gacharna, Gail Simpson (Mentor), Brian Murer (Mentor)  
Christina Garcia, Fred Stonehouse (Mentor)  
Katie Garth, Jim Escalante (Mentor), Tracy Honn (Mentor),  
Briony Morrow-Cribbs (Mentor)  
Mollie Ginther, Fred Stonehouse (Mentor), Leslie Smith III (Mentor),  
T.L. Solien  
Alexander Gradecki, Julie Ganser (Mentor)  
Hanna Gundrum, Fred Stonehouse (Mentor)  
Nina Ham, Julie Ganser (Mentor)  
Natalie Hinihara, Derrick Buisch (Mentor), Emily Belknap (Mentor)  
Jamie Jacobson, Julie Ganser (Mentor)  
Ye Ji, John O’Hearn (Mentor), Jeff Broekhoven (Mentor)  
Luke Johnson, Meg Mitchell (Mentor), Joni Wildman (Mentor)  
Grace Edge Jolicoeur, Doug Rosenberg (Mentor), Mary Hark (Mentor),  
Lily Yeh (Mentor)  
Kristina Karlen, Steve Feren (Mentor), Paul Sacaridiz (Mentor)  
Francis Keys, Sarah Fitzsimmons (Mentor)  
Callie Mangan, Leslie Smith III (Mentor), Frances Meyers (Mentor),  
Briony Morrow-Cribbs (Mentor)  
Michael Piotter, Jason Ramey (Mentor), Heath Matysek-Snyder (Mentor)  
Jenny Quilty, Allison Welch (Mentor), Jack Damer (Mentor),  
Jason Ramey (Mentor)  
Lauren Richards, Steven Driscoll Hixson (Mentor)  
Anastassia Rhodes, Maria Kurutz (Mentor)  
Catie Rutledge, Derrick Buisch (Mentor)  
Katherine Sandheinrich, Allison Welch (Mentor)  
Andrew Thompson, Todd Brei (Mentor), Fred Stonehouse (Mentor)  
Brian Thue, Fred Stonehouse (Mentor), Derrick Buisch (Mentor)  
Marcie Waters, Julie Ganser (Mentor)  
Mafia Yang, Dennish Arnolt Miller (Mentor), Ellen Siebers (Mentor)

### Meet the artists from 4:30 to 5:00 p.m. in Varsity Hall

## Performances

**The Sett: 6:00 – 8:00 pm**

Title	Presenters and Mentors	Session
Crossroads	Xin Wang, Karen Mcshane-Hellenbrand (Mentor)	PW
The Music of Francois Borne	Tatiana Koike, Stephanie Jutt (Mentor)	PW
Dichotomy	Kathleen Warner, Chiao-Ping Li (Mentor)	PW
"It"	Samantha Blank, Amy Bahr, Amy Gottlieb, Evelyn Sadowski, James Stauffer (Mentor) (Mentor)	PW
Sebene: The Integration of Elements in W. African Music With the Euro-American Orchestral Tradition	Iris Ceulemans, Stephen Dembski (Mentor)	PW
Two is One	Sydney Parsons, Henry Drewal (Mentor)	PW
The Making of a Horn Trio: Teamwork Through Music	Amanda Fry, Dan Hively, Kyle Pompei, Daniel Grabois (Mentor)	PW

## Project Displays

**Varsity Hall: 3:45 – 5:00 pm**

Title	Presenters and Mentors	Session
Urban Agriculture: The Future of Aquaponics in Madison, the Midwest and Internationally	Wally Graeber, Sabrina Bradshaw (Mentor)	III
Mask for Ntomo	Lauren Hennelly, Freida Tesfagiorgis (Mentor)	III
Yma Fashion Scholarship Fund Project	Daniel Walker, Jennifer Angus (Mentor)	III
Entrapment - Oil Painting Series	Ella Williquette, Ellen Siebers (Mentor)	III

## Digital Installations

**Varsity Hall: 12:30 - 2:00 pm**

Title	Presenters and Mentors	Session
They Came from the Early Universe: Simulations of Anisotropies in the Cosmic Microwave Background	David Marulli, Peter Timbie (Mentor)	I
History of Madison Suburbs: a Spatial Approach	Margaret Raimann, Anna Andrzejewski (Mentor)	I
Symbols Study	Catherine Finedore, Percival Matthews (Mentor)	II
Drafting Derby: Forging Personas and Shattering the Mold	Amy Freeberg, Tim Frandy (Mentor)	II
Developing Cohesive Self and Societal Awareness Abroad	Nathaniel Miller, Gwynneth Schell (Mentor)	III
Facing Empathy at the Extremes: Reading Lévinas With Beloved, the Reader and Disgrace	Hannah Weinberg-Kinsey, Theresa Kelley (Mentor)	III

## Talks

**Session I: 12:30 - 2:00 pm**

### ALUMNI

Title	Presenters and Mentors
The Guidebook to Byzantine Historiography	William Conlin, Leonora Neville (Mentor)
The Story of Adam and Eve: Parallels Between Islamic and Christian Literature	Claudia Gupta, Uli Schamiloglu (Mentor)
Byzantine Historiography	Pashoua Lee, Leonora Neville (Mentor)
Music in Roman Pantomime	Crescentia Stegner-Freitag, Marc Kleijwegt (Mentor)
Anna Komnene's Self-Created Identity	Chelsey Wilson, Leonora Neville (Mentor)
Value and Art: Nietzsche's Answer to Nihilism	Jingcai Ying, Richard Avramenko (Mentor)

### FIRST NATIONS

Title	Presenters and Mentors
Studying the Mechanism of the Drug Pramlintide With the Diabetes Disease Protein Hiapp	Wenting Cai, Martin Zanni (Mentor)
Mining the Carbohydrate-Active Enzyme Diversity in the Sequenced Microbial Genome Collection	Andrew Cunningham, Garret Suen (Mentor)
Enhanced Production of Thrombospondin-1 Under High Glucose Promotes the Death of Retinal Pericytes	Keegan Shallow, Nader Sheibani Karkhaneh (Mentor)
Presence of ELN and COL1 in Relation to Cardiomyocyte Development in Mouse Embryonic Stem Cells	Terra Thimm, Jayne Squirrel (Mentor)
Distribution of Dendritic Cells in the Inflamed Murine Brain	Alec Walker, Zsuzsanna Fabry (Mentor)
Multiple Instance Learning to Detect Regulatory Elements Active in Stem Cell Differentiation	Matthew Ziegler, Mark Craven (Mentor)

### GOVERNANCE

Title	Presenters and Mentors
The Rotation Curve of the Milky Way Galaxy	Ryan Bossler, Adam Birenbaum, Tenzin Choedak, Felipe Gutierrez, Daniel Hesse, Briana Indahl, Claire Murray, Nathan Oster, Jessie Otradovec, Pooja Rawat, Snezana Stanimirovic (Mentor)
Understanding Single-Walled Carbon Nanotube Cloning	Tou A Chang, Michael Arnold (Mentor)
Stone Beads of Besik Tepe and Troy: Manufacture and Technical Analysis	Geoffrey Ludvik, William Aylward (Mentor)
The Effect of Ammonium on the Hydraulic Conductivity and Cation Exchange of Sodium Bentonite in Gcls	Amara Meier, Sabrina Bradshaw (Mentor)
Evaluation of VOC Transport Parameters Through EVOH Geomembrane Using Dcc Diffusion Test	Eric Niebler, Sabrina Bradshaw (Mentor)
Characterizing the Turbulent Properties of MBM16	Nickolas Pingel, Snezana Stanimirovic (Mentor)

### SCHOLARS

Title	Presenters and Mentors
Energy Hub Elementary School Outreach: Fostering the Next Generation of Energy Thought and Action	Hong-En Chen, Ashwini Bharatkumar, Meinuo Chen, Craig Benson (Mentor)
Effectiveness of Bentonite as an Annular Seal in Monitoring Wells	Cole Christiansen, Sabrina Bradshaw (Mentor)
Climate Warming Effects on Nutritional Chemistry in Aspen and Birch Leaves	Elizabeth Gryzmala, Mary Jamieson (Mentor)
Preliminary Classification of Potential Barrier Soils for Low-Level Radioactive Waste Facilities	Michael Heiman, James Tinjum (Mentor)
Evolutionary Response of the Copepod Eurytemora Affinis to Crude Oil Toxicity	Kristin Lee, Carol Lee (Mentor)
Mixtape Culture & Power	Eli Lynch, Christopher Walker (Mentor)

## SIFT & WINNOW

Title	Presenters and Mentors
Economic Effects of Community Based Ecotourism in Costa Rica	Zoe Abrams, Jennifer Alix-Garcia (Mentor)
Succession in Family Management	Michelle Kass, Debra Holschuh-Houden (Mentor)
Stock Market Indicator	Cen Peng, Amir Assadi (Mentor)
Selena Quintanilla Perez	Lauren Richards, Lauren Arndt, Debra Holschuh-Houden (Mentor)
Best Practices of Family Business Succession	Daniels Sam, Debra Holschuh-Houden (Mentor)
The Pros and Cons of Nepotism	Allison Wodicka, Josh Flax, Debra Holschuh-Houden (Mentor)

## WISCONSIN IDEA

Title	Presenters and Mentors
Homelessness, Schools, and Communities	Rebecca Cooks, Peter Miller (Mentor)
Hip-Hop Across the Ocean; Stockholm & New York City - Together But Separate	Chelsea-Leigh Flucus, Scott Mellor (Mentor)
Discharging Patients from the Hospital to Skilled Nursing Facility: Nurses' Perspective	Melissa Hovanes, Barbara King (Mentor)
Somos Latinas Project	Lydia Huck, Hector Salazar, Andrea Arenas (Mentor)
Battling Infant Mortality and 'Maternal Ignorance': The Education of Mothers in Edwardian Britain	Bryce Luttenegger, Daniel Ussishkin (Mentor)
Commercialization of Disposable Pads Correlated With Women's Entrance Into Modernity	Amber Sandall, Karen Walloch (Mentor)
Impulsivity and Obesity	Emily Schaefer, Kristin Javaras (Mentor)

## Talks

### Session II: 2:15 - 3:30 pm

## ALUMNI

Title	Presenters and Mentors
Potato Enrichment: The Presence of Pathogenic Bacteria in Wash Line Samples	Alyssa Beck, Kimberly Cowles (Mentor)
What Eye Learned: Ecological and Phylogenetic Influences on Vertebrate Eye Morphology	Lauren Hennelly, Peter Mcintyre (Mentor)
Water Level Decline Decreases Cobble Habitat and Increases Predation on Invasive Rusty Crayfish	Emily Hiltz, Jake Vander Zanden (Mentor)
Control of Potato Virus Y in Seed Potato Production	Kyle LaPlant, Amy Charkowski (Mentor)
Correlation Between Ice Breakup and Productivity of King Eiders in the Canadian Arctic	Win Sim Tan, David Drake (Mentor)

## FIRST NATIONS

Title	Presenters and Mentors
Nanoscale Copper Protection With Alumina Overcoating	DuCharme Brett, James Dumesic (Mentor)
Attachment of a Carbon Monolayer on SnO <sub>2</sub> for Increased Stability in Electronic Applications	Connor Firth, Rebecca Putans (Mentor)
The Evolution of Post-Starburst Galaxies and Their Agn	Mikayla Kelley, Marsha Wolf (Mentor)
The Promises and Challenges of Microfluidics Diagnostic Devices in 21st-century India	Andy Tay Kah Ping, John Webster (Mentor)
Study of the Dynamics of the Lunar Atmosphere and Tail	Nick Walter, Edwin Mierkiewicz (Mentor)

## GOVERNANCE

Title	Presenters and Mentors
Pharmacological Studies of the G-Alpha-Z-Coupled E Prostanoid Receptor	Harpreet Brar, Michelle Kimple (Mentor)
The Effects of Testosterone and Estradiol on the Prostatic Anatomy of Male Mice: A Novel Bph Model	Zachary Helmen, Tristan Nicholson (Mentor)
Cholesterol Biosynthesis Pathway: Model Development	Cassandra Kozak, Laurence Loewe (Mentor)
The Role of Tcf19 in the Pancreatic $\beta$ -Cell and Diabetes	Amy Whillock, Dawn Davis (Mentor)
The Molecule Pde4B and Intestinal Field Cancerization: Cause Vs. Effect	Lindsay Young, William Dove (Mentor)

## SCHOLARS

Title	Presenters and Mentors
Behavior and Life History Responses of High-Elevation Caddisflies to Drying Environments	Jessica Lund, Barbara Peckarsky (Mentor)
Identification of the Role of Sub2 During Spliceosome Assembly	Yuliang Sun, Aaron Hoskins (Mentor)
Common Pathway of Enhanced Longevity in Mice	Lauren Willoughby, Rozalyn Anderson (Mentor)
Nonsense-Mediated mRNA Decay Targeting in the <i>S. Cerevisiae</i> MSH4 Gene	Bethany Zeitler, Michael Culbertson (Mentor)

## SIFT & WINNOW

Title	Presenters and Mentors
Provoking Peace: The Precarious Intersection of Post-Conflict Politics and United Nations 'DDR'	Paul Atwell, Michael Schatzberg (Mentor)
On Artistic Collaboration: Untitled (Live)	Arianna Dunmire, Jacqueline Thelen, Katherine Corby (Mentor)
The Reliability and Validity of the Overhead Squat Test	Matthew Olson, David Bell (Mentor)
Cross-Cultural Differences in the Regulation of Negative Emotions: The Role of Dialectical Beliefs	Amelia Petermann, Yuri Miyamoto (Mentor)
Racial Encoding in Young Children	Madeleine Spencer, Kristin Shutts (Mentor)
Discussing End of Life Care in the Hmong Community	Veronica Thao, Cameron Macdonald (Mentor)

## WISCONSIN IDEA

Title	Presenters and Mentors
Adult Number Sense	Brian Brito, Harim Ahn, Catherine Finedore, Percival Matthews (Mentor)
Associations Between Internet Use and Physical Activity Among College Students	Natalie Goniou, Dimitri Christakis, Elizabeth Cox, Jens Eickhoff, Lauren Jelenchick, Rosalind Koff, Philip Giampietro, Megan Moreno (Mentor), Henry Young (Mentor)
Personal and Sociotropic Framing and Risk Aversion	Alexander Miller, David Wise (Mentor)
Investigating Patterns of Lateralized Hand Use on a Fine Motor Task in Rhesus Macaques	Chaney Perkins, Allyson Bennett (Mentor)
Implicit Language Learning: The Malleability of Adult Grammar	Rachel Wang, Maryellen Macdonald (Mentor)

Continued on next page

## Talks continued

### Session III: 3:45 - 5:00 pm

#### ALUMNI

Title	Presenters and Mentors
Postmenopausal Hormone Replacement Therapy Controversy at the Biochemical Level	Samuel Ekstein, Craig Atwood (Mentor)
Role of Brain Stearoyl-CoA Desaturase-1 in Metabolism, Obesity and Diabetes	Kristin Harrington, James Ntambi (Mentor)
Anxiety Symptoms and Gene-Gene Interactions in the Serotonergic System	Daniel Lancour, Harold Goldsmith (Mentor)
The Effects of TGF $\beta$ on Anaplastic Thyroid Carcinoma Cells	Carolina Larrain, Ricardo Lloyd (Mentor)
Engineering Hyperactive Angiogenin: Variant Angiogenin Evades Inhibitor, Increasing Activity	Stephen Leeb, Trish Hoang (Mentor)

#### FIRST NATIONS

Title	Presenters and Mentors
Illumina Miseq Analysis of Rhesus Macaque Class I Major Histocompatibility Complex	Patrick Bohn, David Oconnor (Mentor)
Effects of GDNF Delivered by hMSC on the Survival of Terminal Schwann Cells in ALS Rats	Corey Macrander, Masatoshi Suzuki (Mentor)
Whole Tissue Antibody Staining of Embryonic Mouse Hearts for Extracellular Matrix Proteins	Katharine Molinarolo, Jayne Squirrell (Mentor)
Examining the Progression of Biting and Forelimb Deficits in a Transgenic Model of Parkinson Disease	Eunice Paul Rajamanickam, Michelle Ciucci (Mentor)
Sex Related Differences in Neuroprotection After 7,8 DHF Treatment in Perinatal Mice	Giovanni Rodriguez, Pelin Cengiz (Mentor)

#### FORWARD

Title	Presenters and Mentors
Who Really Is the Boss?	Emily Butrym, Debra Holschuh-Houden (Mentor)
Family Business Analysis: Walmart	Michael Ebener, Debra Holschuh-Houden (Mentor)
Between Two Sister Cities: a Comparative Analysis of Freiburg & Madison Environmental Governance	Meredith Keller, Nils Ringe (Mentor)
Flying High: Experience and Optimism in the Aviation Industry	Amelia Miller, Phillip Kim (Mentor)
The Dynamic of the Family Business in China	Joshua Ruskin, Debra Holschuh-Houden (Mentor)

#### GOVERNANCE

Title	Presenters and Mentors
Land Use Accessibility of the Bay-Lake Regional Planning Commission	Samuel Grosenick, David Hart (Mentor)
Enabling In-Silico Experiments of Granular Material Dynamics	Spencer O'Rourke, Dan Negrut (Mentor)
Thermal Response Test for Geothermal Application	Andrew Ruetten, Matt Walker, James Tinjum (Mentor)
Swelling Index Test & Fluid Loss Test	Liangquan Wang, Jiannan Chen (Mentor)
Oscillatory Hydraulic Tomography	William Zweifel, Michael Cardiff (Mentor)

#### INDUSTRY

Title	Presenters and Mentors
Subjective Sleep Quality and Cognition [Wisconsin Sleep Cohort Data]	Andrew Dickman, Cynthia Phelan (Mentor)
Cognitive and Physiological Correlates of Stress in Health and Disease	Natasha Mason, Stephanie Derr, Benjamin Weis, Marcia Slattery (Mentor)
Bridging the Gap: Older Adult Experience	Sarah Shudlick, William Haack, Mike Luebke, Maddie Mittelstadt, Hannah Mueller, Katelyn Paul, Tara Pizer, Alea Precourt, Maddie Rapisarda, Kari Rognlien, Inna Rybakova, Brooke Sarver, Heather Schwartz, Jenna Stoikes, Justene Wilke, Audrey Williams Van Dijk, Yvette Egan (Mentor)
Healthy Eating for Young Dancers	Jordan Snider, Karen McShane-Hellenbrand (Mentor)
Analyzing and Lowering the Prevalence of Ventilator Associated Pneumonia in the TLC	Vaughn Williams, Nasia Safdar (Mentor)
Madison's Parking and Congestion Problem	Martha Ferris, Thomas Rutherford (Mentor)

#### SCHOLARS

Title	Presenters and Mentors
Infusion of NK Cells Expanded Ex Vivo With IL-15 and 4-1BBL Induces GVHD and Abrogates GVT Effects	Sara Kelm, Brittany Bowen, Thomas Esposito, Christian Capitini (Mentor)
Detection of $\gamma$ -Carboxyglutamic Acid in Periostin	Hanqing Ma, Douglas Annis (Mentor)
Dissecting Plant Viral Translation in Oat Protoplast	Nicole Mihelich, Aurelie Rakotondrafara (Mentor)
The Effects of Alterations to the Discriminator Region and the Sigma 70 Subunit on rpo Stability	Michelle Nimz, M. Thomas Record (Mentor)

#### SIFT & WINNOW

Title	Presenters and Mentors
The Role of Salvadoran Women During the Civil War	Jessica Diaz-Hurtado, Florencia Mallon (Mentor)
How Children Evaluate Individuals from High and Low Socioeconomic Backgrounds	Leah Dornbusch, Kristin Shutts (Mentor)
Needle Phobia Among College Students	Ethan Farris, Michael Kim (Mentor)
Gabby Douglass Effect: Politics of Personal Presentation for African American and Latina Women	Gethsemene Herron-Coward, Alice Goffman (Mentor)
The Goal-Centered Theory: a New Way to Analyze Political Revolutions	Allison Perlin, Erica Simmons (Mentor)

#### WISCONSIN IDEA

Title	Presenters and Mentors
The Numerical Brain	Jennifer Hathaway, Christina Tran, Edward Hubbard (Mentor)
Training the Dancer as an Athlete	Rebecca Kesting, Katherine Corby (Mentor)
Promoting the Craft of Artist's Books Through Education	Lindsay Nigh, Jim Escalante (Mentor)
Academic Resource Coalition	Alex Schurman, Jean Heitz (Mentor)
Graffiti to Street Art: An Argentine Transformation	Nathaniel Shay, Ksenija Bilbija (Mentor)

## Roundtables

### Session I: 12:30 – 2:00 pm

#### AGRICULTURE A

Title	Presenters and Mentors
Keeping It “In the Blood”	Alex Canter, Debra Holschuh-Houden (Mentor)
Flying High: Experience and Optimism in the Aviation Industry	Matthew Hardy, Phillip Kim (Mentor)
A Successful Business and Family Plan on How to Add on a Second-Generation Family Member	Chris Hoffman, Debra Holschuh-Houden (Mentor)
The Effects of Sector Specific Foreign Direct Investment on International Treaty Law	Allison Perlin, Jason Yackee (Mentor)
Marrying Into the Family Business	Ashley Ryan, Debra Holschuh-Houden (Mentor)
The Effects of Divorces on Family Business	Tiera Stephen, Debra Holschuh-Houden (Mentor)

#### AGRICULTURE B

Title	Presenters and Mentors
The Effect of Vitamin D on Innate Immunity and the Progression of Multiple Sclerosis	Stephanie Kalogiropoulos, Julie Olson (Mentor)
Effects of Alzheimer’s Disease Risk Factors on Brain Microstructure in Cognitively Healthy Adults	Sharon Lu, Samuel Doran, Barbara Bendlin (Mentor)
MRSEC: Raman Spectroscopy Activity Development	Su Yang, Anne Gillian-Daniel (Mentor)
Investigating Legume-Rhizobia Symbiotic Signal Transduction Pathway	Pich Tea, Muthusubramanian Venkateshwaran (Mentor)
Understanding the Role of HMGR1 in Symbiosis	Tien Tran, Oswaldo Valdes Lopez (Mentor)

#### LANDMARK A

Title	Presenters and Mentors
Moving Days: August Move-Out Waste Diversion Efforts	Andy Bose, Frank Kooistra (Mentor)
Elevated Temperature Influences Foliar Nitrogen Content in Spruce and Fir	Camille Gonzalez, Mary Jamieson (Mentor)
Genetic Diversity of Vaccinium Macrocarpon and Vaccinium Oxycoccus in Wild Populations	Aidee Guzman, Tierany Bougie, Juan Zalapa (Mentor)
Climate Change Impacts on Ranges of Avian Species	Aviv Karasov-Olson, James Berkelman (Mentor)
Sustainable Collaboration: The Foundation & First Year of the Sustainability Council	Meredith Keller, Sabrina Bradshaw (Mentor)
Analysis of International Shark Management Strategies: a Case Study of Puerto Lopez, Ecuador	Laura Martinelli, James Berkelman (Mentor)

#### LANDMARK B

Title	Presenters and Mentors
The Origins and Evolution of the United States Africa Command	Kathryn Johnson, Scott Strauss (Mentor)
Behavior Problems in Children of Incarcerated Parents	Mykenzie Lemberger, Julie Poehlmann (Mentor)
Immigrant Families: Literacy and Identity Development Over Time and Space	Beth Parimanath, Catherine Lilly (Mentor)
Film Melodrama and Emotion in Cross-Cultural Perspective	Andrea Rebolledo Viveros, Benjamin Singer (Mentor)
Understanding Campaign Ads: Who Are the Real Targets	Haley Stoecker, Jack Edelson (Mentor)
Children’s Social Category-Based Food Selections	Kat Zimmerman, Ashley Jordan (Mentor)

### Session II: 2:15 - 3:30 pm

#### AGRICULTURE A

Title	Presenters and Mentors
Collagen Subtype and Hemodynamic Function of Pulmonary Arteries Related to Pulmonary Hypertension	Jayden Cline, Zhijie Wang (Mentor)
Distribution of 5-HT4 Receptors in the Central Nervous System	Leslie Cohen, Courtney Lamondin, Mark Brownfield (Mentor)
Biomek 3000 Laboratory Automation Workstation	Jon Guay, Peter Geiger (Mentor)
A Closer Look at Sleep	Haley Jelinski, Erika Hagen (Mentor)

#### AGRICULTURE B

Title	Presenters and Mentors
Sustainability- Compost and Recycling at UW–Madison	Sinnott Isaac, Sabrina Bradshaw (Mentor)
Taming to Teach: The Common Conservation Legacy of the Wi Game Farm & Mackenzie Environmental Center	Meredith Keller, William Cronon (Mentor)
Isolation and Identification of Wild Yeast in Madison Area and Oregon, With a Focus on Temperature.	Russell Mendez, Christopher Hittinger (Mentor)
The Economics of Aquaponics	Miles Tryon-Petith, Sabrina Bradshaw (Mentor)
Serum Complement Activity in PCB–126 Exposed Northern Leopard Frogs	Jacquelyn Walejko, William Karasov (Mentor)

#### LANDMARK A

Title	Presenters and Mentors
Ethnicity in Political Advertisements	Kristopher Bass, Jack Edelson (Mentor)
Racial Targeting in Political Advertising	Nicole Lang, Jack Edelson (Mentor)
Inequality, Inside and Out: A Survey of Black Wisconsin’s Health and Socioeconomic Disparities	Joseph McDonald, Rick Strickland (Mentor)
A Hidden Scar: The 1962 Gay Purge at the University of Wisconsin–Madison	Gina Slesar, William Jones (Mentor)
Literacy and Identity Development Over Time and Space: a Story of Carlos	Sarah Tran, Catherine Lilly (Mentor)

#### LANDMARK B

Title	Presenters and Mentors
Patient-Centered Hand Hygiene	Rachell Caniza, Nasia Safdar (Mentor)
Preference for Topical Anesthesia Prior to Painful Needle Procedures	Brian Christenson, Michael Kim (Mentor)
lggy and the Inhalers: An Academic Intervention for Children With Asthma.	Sara Filali, Alex Thomas (Mentor)
Methadone and Sudden Death	Lisette Martinez, Joseph Blustein (Mentor)
Associations Between Maternal Mental Health, Parenting Stress, and Child Executive Function	Annissa Zynda, Janean Dilworth-bart (Mentor)

Continued on next page

## Roundtables

*continued*

### Session III: 3:45 - 5:00 pm

#### AGRICULTURE A

Title	Presenters and Mentors
Immigrant Families: Literacy and Identity Development Over Time and Space	Aaliyah Boyd, Catherine Lilly (Mentor)
Eyewitness Identification Procedures: Assessing Alternative Approaches to Reforming Police Practices	Clara Graber, Keith Findley (Mentor)
The Impact of Fact Checking	Pamanisha Gross, David Wise (Mentor)
Does Participating in Electoral Politics Moderate Religious Political Parties?	Tyler Hitzeman, Nadav Shelef (Mentor)
Electrophysiological Masking-Level Difference in Older Listeners	Alejandro Delgado, So Eun Park (Mentor)

#### AGRICULTURE B

Title	Presenters and Mentors
Marketing as a Family Restaurant	Benjamin Ehlers, Debra Holschuh-Houden (Mentor)
The Effects of a Split Between a Family Business Into Two Separate Businesses	Brett Johnsen, Debra Holschuh-Houden (Mentor)
Socioemotional Wealth and Its Effect on Family Business Valuations	Andrew Knighton, Debra Holschuh-Houden (Mentor)
Succession in Family Business	Daniel Kuzia, Debra Holschuh-Houden (Mentor)
The Husband-Wife Shared Business Ownership Dynamic	Liza Van Lanen, Debra Holschuh-Houden (Mentor)

#### LANDMARK A

Title	Presenters and Mentors
Immortalization and Characterization of Vocal Fold Epithelial Cells	Gabrielle Enos, Elizabeth Levendoski (Mentor)
Leukocyte Type in Chronic Intermittent Hypoxia and Allergen Induced Lower Airway Inflammation	Pei-Ning Hsu, Mihaela Teodorescu (Mentor)
4',5,7-Trihydroxyflavone (Apigenin) Selectively Inhibits CYP1B1	Menglin Liu, Colin Jefcoate (Mentor)
Studying Invasion/Metastasis in Human Ovarian Cancer Via Nano/Microfabricated Models of the ECM	Tyler Max, Paul Campagnola (Mentor)
Microfluidics	Heriberto Rodriguez-Gallo, Anne Gillian-Daniel (Mentor)

#### LANDMARK B

Title	Presenters and Mentors
Student Effectiveness in Group Projects	Jonah Aelyon, Loren Kuzuhara (Mentor)
The Changing Face of Self-Determination: A Catalanian Case Study	Alexander Beck, John Zumbunnen (Mentor)
Effects Transitioning to College Has on Facebook Use	Kelsey Cousland, B. Bradford Brown (Mentor)
What Motivates Us to Do Service Work?	Ruby Martinez, Stephen Quintana (Mentor)
Stimulating Imagination in Virtual Reality	Dana Paz, Vito Freese, Patricia Brennan (Mentor)

## Posters

### Varsity Hall

PS#	TITLE	Presenters and Mentors	Session
1	A Comparison of the KIR Matched/Mismatched Anti-Tumor Benefit of Human NK Cells	Megan Elsenheimer, Paul Sondel (Mentor)	III
2	A Descriptive Investigation of Inappropriate Antibiotic Use in Skilled Nursing Facilities	Laura Bayer, Christopher Crnich (Mentor)	III
3	A Forward Genetic Approach to Study Neural Dysfunction	Alexandra Rezazadeh, Barry Ganetzky (Mentor)	II
4	A Novel Approach to Mitigating Ballast Fouling and Enhancing Rail Freight Capacity	Benjamin Warren, James Tinjum (Mentor)	I
5	A Simple Theory of Allostery in the Gaba(A) Receptor	Alexander Haroldson, Mathew Jones (Mentor)	III
6	Accounting Fraud in Family Businesses	Ronnie Christopher, Debra Holschuh-Houden (Mentor)	III
7	Activated <i>Eosinophils</i> Interacting with Periostin, a Protein Found in Asthma	Manav Khanna, Mats Johansson (Mentor)	I
8	Adolescent Development and Facebook Use	Onika Hartwell, Bradford Brown (Mentor)	II
9	Adolescents' Displays of Depression and Stress on Social Media Websites: Their Call for Help	Erin Kelleher, Philip Giampietro (Mentor)	II
10	Agricultural Supply Chain Analysis: Mainstream Commercial vs Personal Production in Vegetables	Maxwell Albrecht, Tyler Lark (Mentor)	I
11	Airline Project	Dimitri Chironis, Phillip Kim (Mentor)	I
12	AMPA Receptor, GluA1, Regulates the Maturation of New Adult Hippocampal Neurons	Eric Polich, Xinyu Zhao (Mentor)	III
13	An Increase in Microbial Activity Correlates with Plant Biomass in Sub-Arctic Heathland	Alexandra Linz, Madeline Raudenbush (Mentor)	I
14	Analysis of Enzymes Found to Cause Prion Degradation Using Inhibitor Affinity Chromatography	Eric Englin, Christopher Lietz (Mentor)	II
15	Angiotensin-II Induced Cardiac Hypertrophic Responses Is Attenuated by Caveolin-3 in Cardiomyocytes	Laura Phelan, Ravi Balijepalli (Mentor)	III
16	Antitumor Effect of Anti-CD40/CpG Combined with Gemcitabine or 5-Fluorouracil in B16 Melanoma Model	Xiaoyi Qu, Paul Sondel (Mentor)	III
17	Assessment of Blended Learning in the Graduate Classroom	Kelsi Sarbacker, Elizabeth Rice (Mentor)	III
18	Atmospheric Simulation Chamber for the Measurement of Volatile Organic Compound Oxidation	Hannah Grossberg, Jennifer Kaiser (Mentor)	I
19	Atom Trapping Using a Compact Zeeman Slower	Georgios Stratis, Mark Saffman (Mentor)	I
20	Attachment Relationships and Behavior Problems in Young Children With Incarcerated Parents	Ashley Kubly, Julie Poehlmann (Mentor)	I
21	Automating Knitting: From Hand to Machine	Kathryn Muench, Lori Bakken (Mentor)	I
22	Axisymmetric Dynamos in Differentially Rotating Spacetimes	Jesse Nims, Benjamin Brown (Mentor)	III
23	Bilingual Advantage in Learning Morphological Markers	Enanna Sheena, Margarita Kaushanskaya (Mentor)	I
24	Brachytherapy Robotics Research Project	Jennie Aylyng, Emily Keuler, Bruce Thomadsen (Mentor)	I
25	Wisconsin Focus Groups and Their Thoughts on New Gray Wolf Policies	Catherine Turng, Adrian Treves (Mentor)	III



PS#	TITLE	Presenters and Mentors	Session
26	Cell Fixative Optimization for Extraction of Nucleic Acids from Circulating Tumor Cells	Benjamin Gibbs, Joshua Lang (Mentor)	III
27	Cellular Decision-making Project	Yang Yang, Amir Assadi (Mentor)	III
28	Cerebral Infarct Volume Study	Crystal Hall, Matthew Jensen (Mentor)	II
29	Changes in Attitudes, Intentions, and Behaviors Toward Tobacco and Marijuana During Freshman Year	Mara Stewart, Philip Giampietro (Mentor)	I
30	Changes in Family Systems: Is It Ever for the Better?	Madalyn Krueger, Debra Holschuh-Houden (Mentor)	I
31	Changes in the Sleep EEG During Adolescence: A Possible Indicator of Cerebral Cortex Development?	Benjamin Jones, Aaron Nelson (Mentor)	III
32	Characterization of a New MBD1 Conditional Knockout Mouse Line for Studying Epigenetic Regulation	Daniel Magyar, Xinyu Zhao (Mentor)	I
33	Characterization of Buds in Cranberry ( <i>Vaccinium Macrocarpon Ait.</i> ) for the Prediction of Yield	Emily Beaver, Rebecca Harbut (Mentor)	III
34	Characterization of Fragile X Syndrome Neurons Derived from Induced Pluripotent Stem Cells	Rebecca Reese, Anita Bhattacharyya (Mentor)	I
35	Characterization of the Carbohydrate Binding Module (CBM2) from <i>Streptomyces sp. SirexAA-E (ActE)</i>	Sungsoo Lim, Brian Fox (Mentor)	I
36	Characterizing Inherent Differences Between Healthy and Cancer Cell Migration Using Synthetic Arrays	Sam Loveland, William Murphy (Mentor)	I
37	Characterizing the Bacterial Community and Prevalence of Vertical Transmission in Switchgrass	Nicole Davis, Cameron Currie (Mentor)	I
38	Chemteacher	Samantha Warnes, John Moore (Mentor)	I
39	Children of Incarcerated Parents: Adjustment to Separation	Serena Wegner, Julie Poehlmann (Mentor)	I
40	Children's Understanding of Numeracy	Harim (Lydia) Ahn, Brian Brito, Catherine Finedore, Percival Matthews (Mentor)	III
41	Children's Word Learning from Touch Screens	Danielle Joyce, Heather Kirkorian (Mentor)	III
42	Chondrocyte Primer Optimization	Allison Berman, Quyen Tran (Mentor)	III
43	Chronic Kidney Disease and Group Visits (Mentor)	Irene Chung, Henry Young (Mentor)	II
44	Classifying and Quantifying Carotenoid and Tocochromanol Compounds in Commercially Available Carrot	Rachael Vernon, Irwin Goldman (Mentor)	I
45	Providing Madison's Youth with Stronger Environmental Education Programs	Lizzie Needham, Robert Beattie (Mentor)	
46	Comparison of Exposure Times to Estradiol on [Ca <sup>2+</sup> ] <sub>i</sub> Oscillations in Primate GnRH Neurons	Samantha Holten, Ei Terasawa-Grilley (Mentor)	II
47	Comparison of Glycosylated Hemoglobin and Hemoglobin A1C Methodologies in Non-Human Primates	Hannah Perelshtein, Heather Simmons (Mentor)	III
48	Comparison of Transgenic Versus Non-Transgenic Pollen Viability in Alfalfa Under Differing Temperatures	Ross Ziobro, Johanne Brunet (Mentor)	III
49	Conversion of Estradiol Benzoate to Estradiol	Misa Sato, Ei Terasawa-Grilley (Mentor)	I

PS#	TITLE	Presenters and Mentors	Session
50	Correlatoin Between Cancer and the Extra-Cellular Matrix (EMC)	Brandon Wiley, Paul Campagnola (Mentor)	II
51	CRC Global 2012 Dominican Republic Service Learning-Connection	Emma Becher, Colleen Althoff, Brian Drout, Monica Ruppert, Gwynneth Schell (Mentor)	III
52	Creating a Human Schwann Cell Culture from Induced Pluripotent Stem Cells	Nikita Tongas, Anita Bhattacharyya (Mentor)	I
53	Cross-Species Amplification of Microsatellite Markers in the Gray Jay ( <i>Perisoreus Canadensis</i> )	Logan Brock, Kurt Reed (Mentor)	III
54	Cryptotephra Detection in a Lacustrine Sediment Core from Spicer Lake, Indiana	Brigitta Rongstad, John Williams (Mentor)	I
55	Cystic Fibrosis: Genetic Advances and Implications for Nursing	Stephanie Nakano, Audrey Tluczek (Mentor)	II
56	Cytoplasmic Interactions of the Anti-Viral Protein APOB3G With HIV-1: A Visual Approach	Stephanie Fricke, Nathan Sherer (Mentor)	III
57	Data Independent Acquisition and Quantitation of Isotopically Labeled Neuropeptides	Kevin Hayes, Claire Schmerberg (Mentor)	I
58	Deception, Detection, Demeanor and Truth Bias in Face-To-Face and Computer-Mediated Communication	Brennan Harris, Lyn Van Swol (Mentor)	III
59	Design of $\alpha/\beta$ -Peptide Mimics for Evaluation of Antibody Binding Promiscuity	Tong Wang, Ross Cheloha, Samuel Gellman (Mentor)	III
60	Wisconsin Land Codes Into Protege	Genevieve Burgess, Nancy Wiegand (Mentor)	III
61	Detection of Perturbed Metabolic Pathways in Polycystic Ovarian Syndrome by Isotope Labeling	Chin Huat Tan, Warren Porter (Mentor)	I
62	Detector Characterization for the Robert Stobie Spectrograph-Near Infrared Arm for Salt	Briana Indahl, Marsha Wolf (Mentor)	I
63	Determining the Effect of Gestational Iron Deficiency on Nephrogenesis	Zachary Smith, Pamela Kling (Mentor)	I
64	Development of GFP-Expressing Recombinant Human Rhinovirus (HRV) Type 1A to Study Virus Spread	Shakher Sijapati, James Gern (Mentor)	III
65	Diazo Compounds for Catalysis-Free Esterification and Potential Uses in HIV Protease Inhibitors	Amy Davis, Nicholas McGrath (Mentor)	II
66	Differences in Lipocalin-2 Expression and Susceptibility to Mammary Cancer in ACI and BN Rat Strains	Lauren Hoffer, James Shull (Mentor)	III
67	Discovering the Rough Edges of Sand	Miles Tryon-Petith, James Tinjum (Mentor)	II
68	Do Precipitation Pulses Drive Anomalous Carbon Dioxide Ecosystem Exchange in Temperate Ecosystems?	Austin Thomas, Ankur Desai (Mentor)	II
69	Doublesex Gene in <i>Aedes Aegypti</i>	Miranda LaCroix, Eric Sanson, Que Lan (Mentor)	II
70	Driving the Budget: The Politics of Bus Transportation in Madison, Wisconsin	Jessica Shen, Kelly Kohrs, Katherine Vosburg, William Gartner (Mentor)	III
71	Effect of Bilingualism on Pragmatic Functioning	Sara Gotlieb, Margarita Kaushanskaya (Mentor)	II

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## Posters

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PS#	TITLE	Presenters and Mentors	Session
72	Effects of 2-Deoxyglucose on mESC and mEB Attachment, Survival, and Morphology	Samantha Metz, Jayne Squirrel (Mentor)	I
73	Effects of Addictive Amphetamine-Like Compounds on the Sigma-1 Receptor	Amanda Schulman, Arnold Ruoho (Mentor)	III
74	Effects of Anxiety and Deprivation Upon Decision-making After Extended Daily Marijuana Use	John Idlas, John Curtin (Mentor)	I
75	Effects of Deletion of the Plug Region in RMA Polymerase	Chayanne Rosado, Emily Ruff (Mentor)	I
76	Effects of Mindfulness Practices on High-Risk Preschoolers	Matthew Zabransky, Pilline Lee, Julie Poehlmann (Mentor)	I
77	Elemental Vacancy Diffusion Database from High-Throughput First-Principles Calculations	Thomas Angsten, Tam Mayeshiba (Mentor)	II
78	Emotional Communication Within Family Businesses	Bethany Varley, Debra Holschuh-Houden (Mentor)	I
79	Emotional Intelligence and Family Business	Stephanie Dhein, Debra Holschuh-Houden (Mentor)	I
80	Engage Children in Science: Service Learning in Biology	Tessa Sliwa, Albert Zygmunt, Dorothea Ledin (Mentor)	III
81	Estradiol, and Not Increased Calorie Intake, Determines Sexual Behavior in Female Marmoset Monkeys	Karli Hochstatter, David Abbott (Mentor)	I
82	Evaluating the Family Feelings of a Jailed Parent Towards Caregiver and Child	Abbey Seidel, Julie Poehlmann (Mentor)	II
83	Evaluation of Collaborative Public Health Nursing Practice Model	Maggie Joyce, Karen Paulsen, Susan Zahner (Mentor)	III
84	Evaluation of Multifunctional Iron Nanoparticles for the Targeted Treatment of Neuroblastoma	Meghan McElreath, Bryan Menapace, Mario Otto, Dana Baiu (Mentor)	I
85	Exogenous Interferons Reduce Rhinovirus Replication and Alter Airway Inflammatory Responses	Tess Becker, Daniel Jackson (Mentor)	III
86	Experimental Archaeology	Marissa Beste, Jonathan Kenoyer (Mentor)	I
87	Exploring Characteristics of Human Sweet Taste Receptor Cysteine Rich Domain	Maxwell Alexander, Fariba Assadi-Porter (Mentor)	II
88	Exploring Magnetic Fields Around Terrestrial Exoplanets and Potentially Habitable Exomoons	Karissa Metko, Eric Wilcots (Mentor)	II
89	Exploring the Cellulolytic Ability and Microbial Community Composition of the Leaf Cutter Ant-Fungus Symbiosis	Amanda Johnson, Cameron Currie (Mentor)	III
90	Family Business Marketing and Sustainment	Kimberly Rouze, Debra Holschuh-Houden (Mentor)	III
91	Feasibility Pilot Using Ipad for Symptom Management Data Collection	Sara Dickey, Karen Kehl (Mentor)	I
92	Functional Characterization of *392G>C Single Nucleotide Polymorphism in CYB5R3 3' UTR	Dana Steffen, Lauren Trepanier (Mentor)	III
93	Generating Stable Cell Lines of HPV16-E6 Mutants in Human Tonsil Epithelial Cells Using Vectors	Divya Bhat, Randall Kimple (Mentor)	I
94	Genetic Control of Behavior: Mapping Decision-making <i>Drosophila</i> Mutants	Nathan Menninga, Julius Adler (Mentor)	I
95	Genome-Wide Concordance Analysis in <i>Arabidopsis Thaliana</i>	Stenz Noah, Cecile Ane (Mentor)	I

PS#	TITLE	Presenters and Mentors	Session
96	Geographic Variation in the Pigmentation of <i>Drosophila Melanogaster</i>	Keighley Reisenauer, John Pool (Mentor)	I
97	Germplasm Enhancement Through the Characterization of Mineral Uptake in Epiphytic Relatives	Jacob Roble, Shelley Jansky (Mentor)	III
98	Global Election Violence Dataset	Marissa Jaramillo, Ruben Garcia, Marissa Jaramillo, Inken Von Borzyskowski (Mentor)	II
99	Goal Attainment Following Intrathecal Baclofen Among Children With Cerebral Palsy and Their Caregivers	Olakemi Olarinde, Jennifer Evans, Ruth Benedict (Mentor)	II
100	Wisconsin with Lower Methadone Overdose Death Rate than the United States	Michael Shinnars, Joseph Blustein (Mentor)	II
101	Growth Inhibitory, Antiangiogenic, and Proapoptotic Effects of Delphinidin in Human Melanoma Cells	Brendan Boylan, Jean Chamcheu (Mentor)	III
102	H-Alpha Emission in AWM and MKW Poor Galaxy Clusters	Michael Ramuta, Adam Birenbaum, Daniel Hesse, Eric Wilcots (Mentor)	III
103	Health Street Theater in Rural Kenya: A Health by Motorbike Initiative	Joseph Shook, Kathleen Grabowski, Araceli Alonso (Mentor)	III
104	Helping Parents to Motivate their High School Students in Mathematics and Science	Ryan Svoboda, Judith Harackiewicz (Mentor)	I
105	Hiring Inside the Family: Cultures and Trust	Hlee Lee, Debra Holschuh-Houden (Mentor)	I
106	Histological Methods for <i>Ex Vivo</i> Axon Tracing	Cassie Heilingoetter, Matthew Jensen (Mentor)	I
107	Histological Quantification of Angiogenesis After Focal Cerebral Infarction: A Systematic Review	WaiYin Leung, Matthew Jensen (Mentor)	I
108	Hmong Educated Parents and Their Support for Their Child in Higher Education	Maimoua Xiong, Alberta Gloria (Mentor)	II
109	How Do Adults Perceive the Speech of Children with Cochlear Implants?	Sara Bernstein, Jan Edwards (Mentor)	II
110	HRS and SNX5 Interact and Regulate EGFR Degradation	Mele Avilla, Andrew Hedman (Mentor)	I
111	Human Endometrial Epithelial Cells Are Permissive for <i>in vitro</i> Infection with <i>Listeria Monocytogenes</i>	Katilee Jacobs, Thaddeus Golos (Mentor)	I
112	Hypothermia Model in Mice	Stephanie Lyn Marquez, Pelin Cengiz (Mentor)	II
113	Identifying 3'UTR Binding Site of Bicaudal-C	Thomas Feustel, Michael Sheets (Mentor)	II
114	Identifying Genetic Factors That Contribute to Aging in the Eye	James Xu, Akihiro Ikeda (Mentor)	I
115	Identifying Non-Host Characteristics Through <i>Arabidopsis</i> -Nematode Interaction	Amy Yan, Andrew Bent (Mentor)	II
116	Improving Cycle Length of Lithium Ion Batteries Via Studies into the Surface Chemistry of Silicon	Richard Barltrop, Joseph Yeager (Mentor)	I
117	Incidental Brain Findings in Healthy Normal Volunteers Under Neuroimaging Study	Paul Rowley, Aaron Field (Mentor)	III
118	Increased Risk for Anxiety Among College Students With ADHD	Natalie Goniou, Philip Giampietro (Mentor)	II
119	Ingestion of Bananas and Human Attractiveness to Mosquitoes	Nicholas Konwinski, Susan Paskewitz (Mentor)	I

PS#	TITLE	Presenters and Mentors	Session
120	Inhibition of the Serine/Threonine Kinase in <i>Staphylococcus Aureus</i>	Ben Knight, Robert Striker (Mentor)	I
121	Interactions Between Prolactin and Progesterone in Human Breast Cancer Cell Lines	Sarah Nagel, Linda Schuler (Mentor)	II
122	Interactions of the F Box Protein Jetlag in Circadian Clocks	Jerdon Dresel, Laurence Loewe (Mentor)	II
123	Investigating the Endo- and Ecto- Mycorrhizal Symbiotic Signaling in Poplar	Lina Nguyen, Junko Maeda (Mentor)	I
124	Investigating the Hofmeister Interactions Between Salts and DNA Double Helix	Yurun Zhang, M. Thomas Record (Mentor)	III
125	Investigating the Role of Medicago Truncatula Ropgefs in Legume-Rhizobia Symbiotic Signaling	Sarah Lee, Muthusubramanian Venkateshwaran (Mentor)	II
126	Investigating the Structural and Functional Properties of CRD-MT1R3 Mutants	Minaliza Shahlapour, Fariba Assadi-Porter (Mentor)	III
127	Investigation of 1/F Flux Noise in Squids and Superconducting Qubits	Antonio Puglielli, Robert Mcdermott (Mentor)	I
128	Investigation of Redox Regulation in DAHP Synthases of <i>Arabidopsis Thaliana</i>	Jacob Litman, Hiroshi Maeda (Mentor)	I
129	Investigation of the Effects of Mutations in U4/U6 snRNA	Hong hong Liao, Samuel Butcher (Mentor)	II
130	Investigation of Transferring Single-Walled Carbon Nanotubes Via Stamping	Jesse Lybianto, Michael Arnold (Mentor)	I
131	Iron-Dependent Regulation of Mitochondrial Form and Function	Athavi Jeevananthan, David Pagliarini (Mentor)	I
132	Iron: A Possible Link Between Obese Pregnancies and Asthma Predisposition at Birth	Natalie Dosch, Pamela Kling (Mentor)	II
133	Kinetic Trapping of the Monomeric States of a Model Protein Under Physiological Conditions	Jon Lang, Silvia Cavagnero (Mentor)	I
134	Knowledge of Rhododendron Use Based on Age, Sex and Location Among the Naxi of Southwest China	Brendan Scherer, Elizabeth Georgian (Mentor)	III
135	Land Deals for Agricultural Investment in Ethiopia: A Closer Look	Alexandra Arriaga, Sarah Stefanos (Mentor)	II
136	Learning in the Making: Studying and Designing Makerspaces	Maria Bakker, Erica Halverson (Mentor)	III
137	Localization of Internalin Mutants in <i>Listeria Monoctyogenes</i> Infected Placental and Decidual Tissue	Elizabeth Weber, Thaddeus Golos (Mentor)	I
138	Wollersheim Winery: A Family History	Romain Coquard, Debra Holschuh-Houden (Mentor)	II
138	Longitudinal Study of the Impact of Early Sibling Warmth and Conflict on Adolescent Psychopathology	Dana Sorensen, Chelsea Gruenwald, Nicole Schmidt (Mentor)	II
140	Loss of ILPS Leads to Neural Development Aberrations in <i>Drosophila Melanogaster</i>	Brian Robichaud, Barry Ganetzky (Mentor)	I
141	Loss of the Plant-Arbuscular Mycorrhizal Fungi Symbiosis	Nathalie Ly, Pierre-Marc Delaux (Mentor)	III
142	Low Cost Manure Solids Sampling Device	Joseph Sanford, Tom Zimonick, Rebecca Larson (Mentor)	III
143	Maternal Iron Status Alters the Pro-inflammatory Action of Gestational Alcohol Exposure	Juna Abazi, Susan Smith (Mentor)	II

PS#	TITLE	Presenters and Mentors	Session
144	Mechanosensory Stimulus Calibration Device	Nikala Wickstrom, Elliot Eklund, Michael Hammer (Mentor)	I
145	MeCP2 Organization of AVP through Promoter Binding	Patricia Horvath, Anthony Auger (Mentor)	II
146	Millimeter-Wave Rotational Spectroscopy of Pyridazine and its Astrochemical Implications	Joshua Shutter, Robert McMahon, John F. Stanton, R. Claude Woods (Mentor)	II
147	Mitochondrial Energetics as an Anti-Aging Target	Albert Budhipramono, Rozalyn Anderson (Mentor)	II
148	Mixed Sexual Offenders: The Relationship Between Psychopathy and Sex Offending	Allison Brown, Monika Dargis, Alex Mattern, Michelle Tsonis, Joseph Newman (Mentor)	III
149	Young Children's Object Retrieval Learning from Touchscreens	Alexandra Nicholas, Emma Kosciolk, Laura Pierpont, Heather Kirkorian (Mentor)	I
150	Mortality in Mali	Mark Nicola, Jeremy Foltz (Mentor)	II
151	MRI-Derived Numerical Breast Models Suitable for Rapid 3-D Prototype Printing	Adam Strebel, Susan Hagness (Mentor)	II
152	Multicellularity in Yeast Caused by PMT4 Mutation—Growth in the Presence of <i>E. Coli</i> Contamination	Jacklyn Artymiuk, Daniel Lador (Mentor)	I
153	Munc13-1 C2A Domain Regulates Protein Localization	Emily Lingeman, Thomas Martin (Mentor)	II
154	MyD88 Plays an Important Role in the Immune Response to Virus-Induced Demyelinating Disease	Scott Stauder, Samuel Hall, Joshua White, Julie Olson (Mentor)	I
155	Young Hmong American Women's Beliefs About Mental Illness	Palee Yang, Earlise Ward (Mentor)	I
156	β-Catenin Is a Regulator of Paracrine Signaling in the Prostate	Erik Elton, Chad Vezina (Mentor)	I
157	Normative Lingual Pressure Study and 3D Tongue Model Design	Naomi Humpal, Joanne Robbins (Mentor)	I
158	Novel Method for Accelerated Biennial Vegetable Crop Seed Production	Lauren Brzozowski, Gregory Vogel (Mentor), Irwin Goldman (Mentor)	III
159	Nutrient Recovery from Wastewater: An Economic and Environmental Overview	Carolyn Barker, Molly Bodde, Justin Helley, Phillip Barak (Mentor)	I
160	Occupational Ergonomics and Biomechanics Lab	Lauren Abrahams, Robert Radwin (Mentor)	III
161	One Week in Dominican Time: A Lifetime of Learning	Corin Menuge, Megan Bartkowski, Edith Flores, Aleah Kuchta, Katie Kuecker, Meghan O'dell, Gwynneth Schell (Mentor)	I
162	Optimizing Lentiviral Delivery of Therapeutic Genes for Treatment of Glaucoma	Rebecca Stern, Curtis Brandt (Mentor)	II
163	Otic Gene Expression in Human Induced Pluripotent Stem Cells Upon Neural Differentiation	Megan Duffey, Samuel Gubbels (Mentor)	II
164	Overcoming Resistance to Cetuximab by Dual Targeting of Her Family Members Using Antibody Therapy	Megan Starr, Mari lida (Mentor)	I
165	Oxidative Stress Detection in Bronchopulmonary Dysplasia	Kaitlyn Fochs, Christine Sorenson (Mentor)	II

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166	Patterns and Fitness Consequences of Laboratory-Adaptation in <i>Culex Pipiens</i> Mosquito Flight Behavior	Charles Hartley, Christina Newman (Mentor)	III
167	Photocatalytic Alpha-Amino Radical Addition to Michael Acceptors	Eric Wiensch, Tehshik Yoon (Mentor)	III
168	Photorhabdus Luminescens in Antibiotic Production and Pathogen Inhibition	Joonho Choe, Jerald Ensign (Mentor)	III
169	Plant Defenses Against <i>R. Solanacearum</i>	Melanie Mustful, Caitilyn Allen (Mentor)	II
170	Possible Applications for an Updated Model of the <i>Drosophila Melanogaster</i> Circadian Clock	Katherine Scheuer, Laurence Loewe (Mentor)	II
171	Post-Bronze Age Ceramics at Troy	Tasia Williams, William Aylward (Mentor)	II
172	Postpartum Depression and Child Psychosocial Outcomes at School Age	Jake Berkvam, Roseanne Clark (Mentor)	II
173	Pragmatic Communication Skills and Employment After Brain Injury	Alyssa Zillner, Lyn Turkstra (Mentor)	I
174	Preclinical Evaluation of Chemoradiation With Cetuximab in HPV+ Head and Neck Cancer	Molly Smith, Randall Kimple (Mentor)	III
175	Prognostic Indication for Referral Into Palliative Care	Harrell Julia, Courtney Erb, Ana Schaper (Mentor)	II
176	Psychosocial Needs of College Students Living Away from a Primary Caregiver with Cancer	Hannah Draayers, Julie Hantschel, Kristine Kwekkeboom (Mentor)	III
177	Public Awareness of Prescription Drug Monitoring Programs	Dan Chen, Jeanine Mount (Mentor)	I
178	Qualitative Program Evaluation of the Eschoolcare Project	Michaela Cline, Alexa Horn, Megan Koller, Emily Kunst, Cissy Ondoma, Lori Anderson (Mentor)	III
179	Rational Molecular Multi-Targeting in Angiosarcoma	Kelsey Corrigan, Genevieve Kozak (Mentor)	II
180	Real Time PCR: A Testing Method to Measure Bacteria in Clinically Diagnosed Mastitis Cows	Kathryn Merriman, Laura Hernandez (Mentor)	III
181	Recognition Memory Processes in Novel Noun Generalization	Rachel Beletti, Nikki Key, Rachael Wooten, Haley Vlach (Mentor)	II
182	Reducing Waste in the Food Supply Chain	Aaron Schroeder, Tyler Lark (Mentor)	III
183	Reduction of Wireless Inefficiencies	Jamie Holt, Parameswaran Ramanathan (Mentor)	III
184	Regulation of Axon Outgrowth by Calcium Dependent-Proteolysis of Adhesion Proteins	Kevin Patel, Patrick Kerstein (Mentor)	I
185	Relative Timing of Gold and Silver Mineralization Events at the Barrick Ren Property, in Nevada	Matthew Ledvina, Philip Brown (Mentor)	I
186	Restoring the Function of P53 Through Treatment with Prima-1 in HPV Positive Cell Lines	Ebony Carson, Randall Kimple (Mentor)	III
187	Role of CD11b+Ly6C+ Cells in the Immune Response to Virus-Induced Demyelinating Disease	Corinne Thornton, Julie Olson (Mentor)	II
188	Role of DMI3 Splice Variants During Symbiosis	Morgan Walcheck, Pierre-Marc Delaux (Mentor)	II
189	Scaffolds for Intracerebral Grafting of Neural Progenitor Cells After Cerebral Infarction	Laura Cohen, Matthew Jensen (Mentor)	II

PS#	TITLE	Presenters and Mentors	Session
190	Scenario Based Learning for the Improvement of GI Instruction	Jaime Mortier, Sumona Saha (Mentor)	I
191	Screen for Modifiers of NLaz in Regulation NMJ Growth by Deficiency Screen	Bowon Joung, Barry Ganetzky (Mentor)	II
192	Selectable Endotracheal Lidocaine Applicator	Katherine Baldwin, James Dorrance, Terah Hennick, Alyssa Mitchell, Mitchell Tyler (Mentor)	I
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Mattern, Alex	PS	III	VH	148	Noah, Stenz	PS	I	VH	95	Reisenauer, Keighley	PS	I	VH	96
Mauer, Eric	PS	I	VH	245	O'dell, Meghan	PS	I	VH	161	Rezazadeh, Alexandra	PS	II	VH	3
Max, Tyler	RT	III	LM-A		O'Rourke, Spencer	T	III	GV		Richards, Lauren	T	I	SW	
McDermott, Kelly	PS	I	VH	244	Obscherning, Eric	PS	III	VH	224	Robichaud, Brian	PS	I	VH	140
McDonald, Joseph	RT	II	LM-A		Oelke, Mitchell	PS	III	VH	241	Roble, Jacob	PS	III	VH	97
McElreath, Meghan	PS	I	VH	84	Olarinde, Olakemi	PS	II	VH	99	Rodriguez, Giovanni	T	III	FN	
McElreath, Meghan	T	II	SC		Olson, Lucas	PS	I	VH	218	Rodriguez-Gallo, Heriberto	RT	III	LM-A	
Mei, Linda	PS	I	VH	214	Olson, Matthew	T	II	SW		Rognlien, Kari	T	III	IN	
Meier, Amara	T	I	GV		Omri, Masrudy	PS	II	VH	201	Rongstad, Brigitta	PS	I	VH	54
Meilahn, Kaylee	PS	I	VH	194	Ondoma, Cissy	PS	III	VH	178	Rosado, Chayanne	PS	I	VH	75
Menapace, Bryan	PS	I	VH	84	Osowski, Megan	PS	III	VH	224	Rouze, Kimberly	PS	III	VH	90
Mendez, Russell	RT	II	Ag-B		Oster, Nathan	T	I	GV		Rowley, Paul	PS	III	VH	117
Menninga, Nathan	PS	I	VH	94	Otradovec, Jessie	T	I	GV		Ruetten, Andrew	T	III	GV	
Menuge, Corin	PS	I	VH	161	Otto, Mario	PS	I	VH	84	Ruppert, Monica	PS	III	VH	51
Merriman, Kathryn	PS	III	VH	180	Otto, Mario	T	II	SC		Ruskin, Joshua	T	III	FO	
Metko, Karissa	PS	II	VH	88	Parimanath, Beth	RT	I	LM-B		Ryan, Ashley	RT	I	Ag-A	
Metz, Samantha	PS	I	VH	72	Park, Mark	PS	III	VH	243	Rybakova, Inna	T	III	IN	
Mihelich, Nicole	T	III	SC		Parsons, Sydney	PF	PW	ST		Sadowski, Evelyn	PF	PW	ST	
Miller, Alexander	T	II	WI		Patel, Kevin	PS	I	VH	184	Salazar, Hector	T	I	WI	
Miller, Amelia	T	III	FO		Paul, Katelyn	T	III	IN		Salievsky, Erbay	PS	II	VH	237
Miller, Nate	PS	III	VH	224	Paul Rajamanickam, Eunice	T	III	FN		Sam, Daniels	T	I	SW	
Miller, Nathaniel	DI	III	VH		Paulsen, Karen	PS	III	VH	83	Sandall, Amber	T	I	WI	
Mindock, Abigail	PS	II	VH	231	Paz, Dana	RT	III	LM-B		Sanford, Joseph	PS	III	VH	142
Mitchell, Alyssa	PS	I	VH	192	Peng, Cen	T	I	SW		Sanson, Eric	PS	II	VH	69
					Pentler, Steven	PS	II	VH	231					

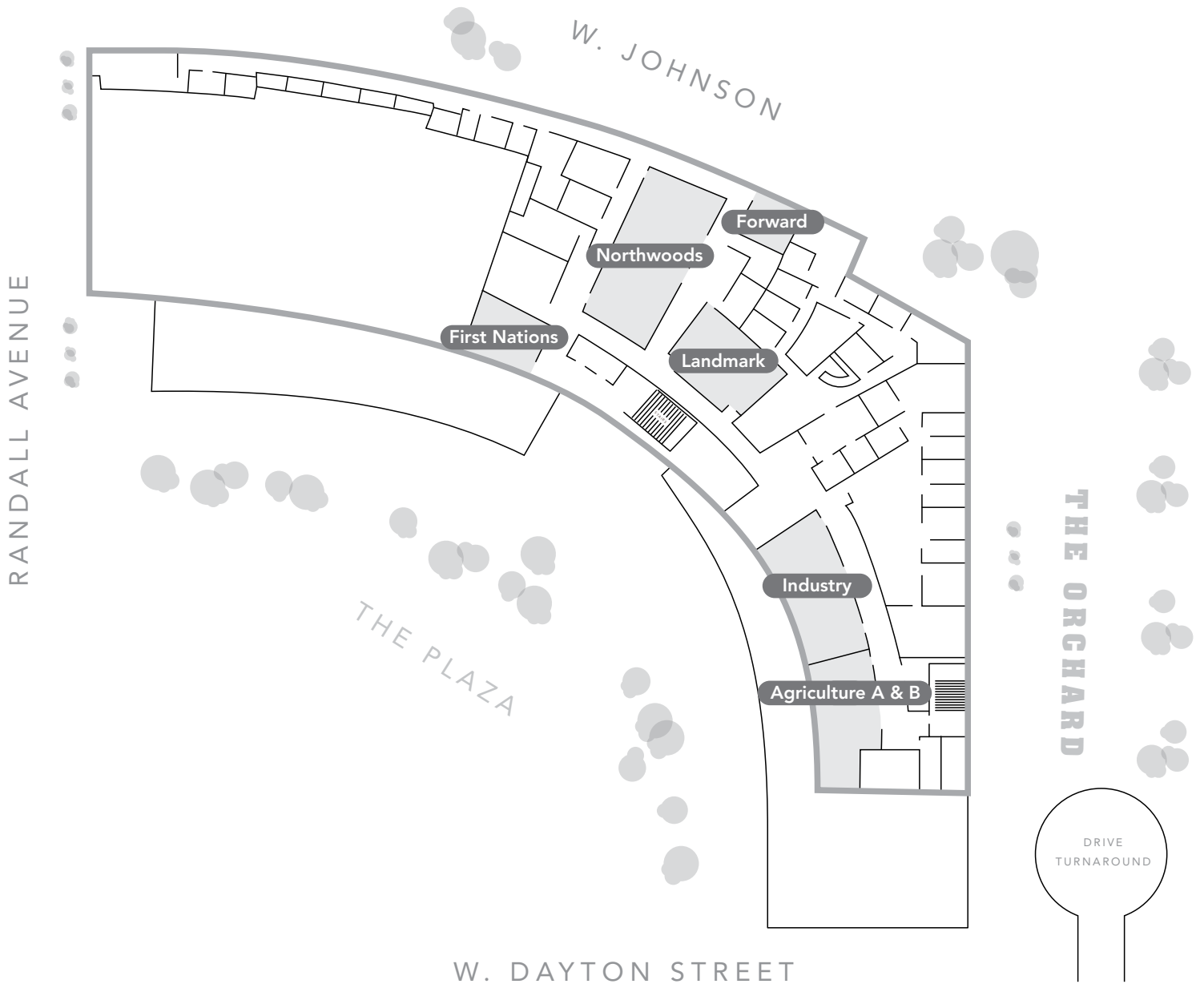


Last Name, First	Format	Time	Room	Order/ Poster#	Last Name, First	Format	Time	Room	Order/ Poster#	Last Name, First	Format	Time	Room	Order/ Poster#
Sarbacker, Kelsi	PS	III	VH	17	Tan, Chin Huat	PS	I	VH	61	Wickstrom, Nikala	PS	I	VH	144
Sarver, Brooke	T	III	IN		Tan, Win Sim	T	II	AL		Wiensch, Eric	PS	III	VH	167
Sato, Misa	PS	I	VH	49	Tay Kah Ping, Andy	T	II	FN		Wiley, Brandon	PS	II	VH	50
Schaefer, Emily	T	I	WI		Tea, Pich	RT	I	Ag-B		Wilke, Justene	T	III	IN	
Scherer, Brendan	PS	III	VH	134	Terry, Kyle	PS	I	VH	215	William-Van Dijk, Audrey	T	III	IN	
Scheuer, Katherine	PS	II	VH	170	Thao, Veronica	T	II	SW		Williams, Tasia	PS	II	VH	171
Schroeder, Aaron	PS	III	VH	182	Thelen, Jacqueline	T	II	SW		Williams, Vaughn	T	III	IN	
Schulman, Amanda	PS	III	VH	73	Thimm, Terra	T	I	FN		Williquette, Ella	PR	III	VH	
Schurman, Alex	T	III	WI		Thomas, Austin	PS	II	VH	68	Willoughby, Lauren	T	II	SC	
Schwartz, Heather	T	III	IN		Thornton, Corinne	PS	II	VH	187	Wilson, Chelsey	T	I	AL	
Seidel, Abbey	PS	II	VH	82	Tongas, Nikita	PS	I	VH	52	Winiacki, Katherine	PS	III	VH	220
Selep, L. Isabelle	PS	III	VH	222	Townes, Jason	PS	III	VH	219	Wodicka, Allison	T	I	SW	
Shahlapour, Minaliza	PS	III	VH	126	Tran, Christina	T	III	WI		Wooten, Rachael	PS	II	VH	181
Shallow, Keegan	T	I	FN		Tran, Sarah	RT	II	LM-A		Xiong, Maimoua	PS	II	VH	108
Shay, Nathaniel	T	III	WI		Tran, Tien	RT	I	Ag-B		Xu, James	PS	I	VH	114
Sheena, Enanna	PS	I	VH	23	Trapp, Beau	PS	I	VH	206	Yan, Amy	PS	II	VH	115
Shen, Jessica	PS	III	VH	70	Tryon-Petith, Miles	PS	II	VH	67	Yang, Annie	PS	II	VH	233
Shinners, Michael	PS	II	VH	100	Tryon-Petith, Miles	RT	II	Ag-B		Yang, Palee	PS	I	VH	155
Shook, Joseph	PS	III	VH	103	Tsonis, Michelle	PS	III	VH	148	Yang, Su	RT	II	Ag-A	
Shudlick, Sarah	T	III	IN		Turng, Catherine	PS	III	VH	25	Yang, Yang	PS	III	VH	27
Shulkin, Emily	PS	III	VH	240	Valdes, Gabriel	PS	II	VH	233	Ying, Jingcai	T	I	AL	
Shutter, Joshua	PS	II	VH	146	Van Lanen, Liza	RT	III	Ag-B		Young, Lindsay	T	II	GV	
Sijapati, Shakher	PS	III	VH	64	Varley, Bethany	PS	I	VH	78	Zabransky, Matthew	PS	I	VH	76
Skovran, Emily	PS	III	VH	241	Vernon, Rachael	PS	I	VH	44	Zeitler, Bethany	T	II	SC	
Slesar, Gina	RT	II	LM-A		Viozat, Savitri	PS	I	VH	199	Zhang, Yayun	PS	I	VH	235
Sliwa, Tessa	PS	III	VH	80	Vogel, Gregory	PS	III	VH	158	Zhang, Yurun	PS	III	VH	124
Smith, Allison	PS	III	VH	250	Vosburg, Katherine	PS	III	VH	70	Ziegler, Matthew	T	I	FN	
Smith, Molly	PS	III	VH	174	Wackett, Jordan	PS	I	VH	206	Zillner, Alyssa	PS	I	VH	173
Smith, Zachary	PS	I	VH	63	Walcheck, Morgan	PS	II	VH	188	Zimmerman, Kat	RT	I	LM-B	
Snider, Jordan	T	III	IN		Walejko, Jacquelyn	RT	II	Ag-B		Zimonick, Tom	PS	III	VH	142
Sorensen, Dana	PS	II	VH	138	Walker, Alec	T	I	FN		Ziobro, Ross	PS	III	VH	48
Spencer, Madeleine	T	II	SW		Walker, Daniel	PR	III	VH		Zwang, Danielle	PS	III	VH	207
Starr, Megan	PS	I	VH	164	Walker, Matt	T	III	GV		Zweifel, William	T	III	GV	
Stauder, Scott	PS	I	VH	154	Walter, Nick	T	II	FN		Zygmunt, Albert	PS	III	VH	80
Steffen, Dana	PS	III	VH	92	Wang, Feng	PS	III	VH	246	Zynda, Annissa	RT	II	LM-B	
Stegner-Freitag, Crescentia	T	I	AL		Wang, Liangquan	T	III	GV						
Stephen, Tiera	RT	I	Ag-A		Wang, Rachel	T	II	WI						
Stern, Rebecca	PS	II	VH	162	Wang, Tong	PS	III	VH	59					
Stewart, Mara	PS	I	VH	29	Wang, Xin	PF	PW	ST						
Stoecker, Haley	RT	I	LM-B		Warner, Kathleen	PF	PW	ST						
Stoikes, Jenna	T	III	IN		Warnes, Samantha	PS	I	VH	38					
Stratis, Georgios	PS	I	VH	19	Warren, Benjamin	PS	I	VH	4					
Strebe, Joslyn	PS	III	VH	196	Weber, Elizabeth	PS	I	VH	137					
Strebel, Adam	PS	II	VH	151	Wegner, Serena	PS	I	VH	39					
Su, Yang	RT	I	Ag-B		Weinberg-Kinsey, Hannah	DI	III	VH						
Sun, Wendy	PS	I	VH	195	Weis, Benjamin	T	III	IN						
Sun, Yuliang	T	II	SC		Whillock, Amy	T	II	GV						
Svoboda, Ryan	PS	I	VH	104	White, Joshua	PS	I	VH	154					

# Union South Level 2



Union South Level 3



Please join us for a celebration of UW–Madison  
undergraduate academic and creative work at the

# Ideas to Excellence Reception

Thursday, April 18, 2013

5:00 – 6:00 p.m.

Union South – Varsity Hall

Welcome and comments by  
Christopher Olsen, Interim Vice Provost for Teaching and Learning

Talk with alumni, employers and University partners  
who want to learn about student projects

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