

PROGRAM 2012

UNIVERSITY OF WISCONSIN—MADISON

Undergraduate Symposium

Celebrating research,
creative endeavor and
service-learning



 an **ideas**
to Excellence event

Undergraduate Symposium 2012

Celebrating Research, Creative Endeavor and Service-Learning

University of Wisconsin–Madison
Union South
April 18, 2012

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

Aaron M. Brower, Vice Provost for Teaching and Learning

Celebrating Undergraduate Education at a Research University

Paul M. DeLuca, Jr.
Provost and Vice Chancellor for Academic Affairs

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
5:00 – 6:00 p.m. *Ideas to Excellence Reception* – Varsity Hall
6:00 – 8:00 p.m. Dinner on your own
8:00 – 10:00 p.m. Performance Workshop – Varsity Hall II

Light refreshments will be available in Varsity Hall during Sessions I-III.
Hors d'oeuvres will be served during the *Ideas to Excellence* reception.

We would like to thank our major sponsors and partners:

<i>Brittingham Trust</i>	<i>Wisconsin Union</i>
<i>Office of the Provost</i>	<i>Undergraduate Academic Awards Office</i>
<i>General Library System</i>	<i>Undergraduate Research Scholars Program</i>
<i>Institute for Biology Education</i>	<i>Morgridge Center for Public Service</i>
<i>The Writing Center</i>	



Key

Format

AR	Art Exhibit
DS	Digital Salon
PF	Performance
PS	Poster
PJ	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: 8:00–10:00 p.m.

Room

FQ	Fifth Quarter Studio
FN	First Nations
FO	Forward
GV	Governance
LG	Lakefront Gallery (Memorial Union)
LN-A,B	Landmark-A,B
NW	Northwoods
SC	Scholars
SW	Sift & Winnow
TG	Theater Gallery (Memorial Union)
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 3:45–5:00 pm in Varsity Hall.

The poster number is 123. If Bucky were giving a talk or participating in a roundtable this number would indicate his presentation order.

Art Exhibits

Memorial Union

March 28 – April 26

Theater Gallery – Contemporary Landscapes

Presenters and Mentors

Yolanda Arellano, Trina Smith (Mentor)
April Arevalo, Trina Smith (Mentor)
Lauren Arndt, Thomas Berenz (Mentor)
Jacob Berchem, Trina Smith (Mentor)
Anika Carlson, Thomas Berenz (Mentor)
Celia Carroll, Thomas Berenz (Mentor)
Jessica Casper, Trina Smith (Mentor)
Allyson Craft, Trina Smith (Mentor)
Alexandria DePagter, Trina Smith (Mentor)
Kateryna Gudziak, Thomas Berenz (Mentor)
Alexander Jackson, Thomas Berenz (Mentor)
Jamie Jacobson, Trina Smith (Mentor)
Emma Kane, Trina Smith (Mentor)
Kelly Kaschner, Thomas Berenz (Mentor)
Kimberly Kirt, Thomas Berenz (Mentor)
Emily Leggee, Trina Smith (Mentor)
Jeremy Mendoza, Trina Smith (Mentor)
Michelle Morgridge, Thomas Berenz (Mentor)
Nastassja Muchin, Thomas Berenz (Mentor)
Andrew Olson, Trina Smith (Mentor)
Conlan Parkman, Trina Smith (Mentor)
Kier Pfoehler, Thomas Berenz (Mentor)
Lauren Richards, Thomas Berenz (Mentor)
Catie Rutledge, Thomas Berenz (Mentor)
Katherine Sandheinrich, Trina Smith (Mentor)
Emily Shullaw, Thomas Berenz (Mentor)
Maddie Smith, Trina Smith (Mentor)
Ashley Stromberg, Thomas Berenz (Mentor)
Andrew Thompson, Thomas Berenz (Mentor)
Ella Williquette, Thomas Berenz (Mentor)
Emma Wimberley, Thomas Berenz (Mentor)
Mafia Yang, Thomas Berenz (Mentor)

Lakefront Gallery – Selected Works

Presenters and Mentors

Caroline Beckwith, Jack Damer (Mentor)
Ashlie Brophy, Jack Damer (Mentor)
Lauren Fergus, Jack Damer (Mentor)
Sigrid Hubertz, Elaine Scheer (Mentor)
Caitlin McCaffrey, Jack Damer (Mentor)
Victoria Novak, Julie Ganser (Mentor)

Performances

Varsity Hall II: 8:00 – 10:00 pm

Title	Presenters and Mentors
Points of Contact: Investigating Identities of Transnational Adoptees	Janelle Bentley, Katherine Corby (Mentor)
The for Colored Girls Project: Big Butt Girls, Hard-Headed Women	Erika Dickerson, Cydney Edwards, Lauren Lugo, Erika Molina, Jo'niece Monk, Thiahera Nurse, Blaire White, Sandra Adell (Mentor)
Inside the Moment: Exploring the Potentials of Evocative Abstraction	Henry Holmes, Chiao-ping Li (Mentor)
"Break"	Hyoin Kim, Marlene Skog (Mentor)
Les Chansons a Montmartre: The Significance of Cabaret Music in French Art Song	Katherine Peck, Paul Rowe (Mentor)
String Quartet No. 1 - Musical Understanding and Appreciation	Maxwell Perkins, Stephen Dembski (Mentor)
Subterfuge: A Collaborative Research Process in Psychology and Creative Thinking	Jordan Snider, Katherine Corby (Mentor)
ESFJ	Shelby Sonnenberg, Marlene Skog (Mentor)

Project Displays

Varsity Hall

Title	Presenters and Mentors	Session
AIAM — Athletic Apparel for Swimmers	Caelainn Donnellan, Jennifer Angus (Mentor)	II
Demonstration of Nuclear Plasma Confinement Techniques: Crushing Red Bull Cans	Blaine Law, Julien Sprott (Mentor)	I
IB SIB	Yer Lee, Jennifer Angus (Mentor)	II
MESH	Rachael Martin, Carolyn Kallenborn (Mentor)	I
Naturæ	Kathleen McGovern, Jennifer Angus (Mentor)	I
Spearhead Technology of the Bronze Age Near East: a Comparative Analysis of Mold Types	Steve Schecher, Jonathan Kenoyer (Mentor)	I
connecText	Chelsie Zitzlsperger, Breanne Litts (Mentor)	I

Digital Salon

Varsity Hall

Title	Presenters and Mentors	Session
A Beetle's Lost Way: a Stop Motion Animation Film	April Arevalo, Jennifer Angus (Mentor)	III
Introduction to UW–Madison Activities	Jed Becker, Ruth Olson (Mentor)	I
Life Drawing Models	Erin Curran, Elizabeth Godec, Zhijie Gu, Elizabeth Pedroza, Ruth Olson (Mentor)	II
The Mischievous Robot	Erin Curran, Stephen Hilyard (Mentor)	II

Talks

Session I: 12:30 – 2:00 pm

FIFTH QUARTER

Title	Presenters and Mentors	Order
Retirement, Children, and Later-Life Mental Health Among Older Americans	Cheng Cheng, James Raymo (Mentor)	1
Effects of Limb Exercise on Cranial Sensorimotor Motor Deficits in a Rat Model of Parkinson Disease	Breanna Hilby, Michelle Ciucci (Mentor)	2
Best Histological Method to Quantify Poststroke Angiogenesis	Waiyin Leung, Matthew Jensen (Mentor)	3
Effect of Masker Type and Spatial Release From Masking on Young Children With Normal Hearing	Jennifer Rocheleau, Ruth Litovsky (Mentor)	4
The Role of Tcf19 in the Pancreatic β -Cell and Diabetes Prevention	Amy Whillock, Dawn Davis (Mentor)	5
Developing Interventions to Help Kidney Transplant Patients With Their Sexual Concerns	Andrea Muller, Rebecca Muehrer (Mentor)	6

TRADITIONS

Title	Presenters and Mentors	Order
WATEER: Wisconsin Academic Teams Engaging in Environmental Research	Peter Bergquist, Kenneth Potter (Mentor)	1
Leaching of Trace Elements From Roadways Constructed With Recycled Industrial By-Products	Brigitte Brown, Sabrina Bradshaw (Mentor)	2
For We Are the Owners of This Land, and It Is Ours: Iroquois Women and Colonization	Aubrey Lauersdorf, John Hall (Mentor)	3
Orangutan Density and Nesting Preferences in Central Kalimantan, Indonesian Borneo	Cynthia Malone, Karen Strier (Mentor)	4
Ecology and Conservation of Cacti in the Mexican State of Jalisco	Christopher Warneke, Lois Anderson, James Berkelman (Mentor)	5
Effects of Stray Dogs on Human and Wildlife Populations	Brynn Wiessner, Joseph Deraney, James Berkelman (Mentor)	6

WISCONSIN IDEA

Title	Presenters and Mentors	Order
The Badger Report	Kathryn Chappell, Kyle Deckelbaum, Parker Gabriel, Patricia Hastings (Mentor)	1
"Farewell My Book, and My Devotion": Courtly Love and Skepticism in Chaucer and Andreas Capellanus	Madeline Crane, Kellie Robertson (Mentor)	2
Are We Still Waiting for Superman?	Dallas Daniel, Shawn Peters (Mentor)	3
The Pursuit of a College Education in the Lao American Community: Impact of Generational Status	Saengthong Douangdara, Alberta Gloria (Mentor)	4
HIV in Federal Prisons: Analysis of Current Testing Policies and Implications for Future Policies	Carly Malave, Ryan Westergaard (Mentor)	5
The Pursuit of Happiness	Jasmine Timmons, Jenell Johnson (Mentor)	6

NORTHWOODS B

Title	Presenters and Mentors	Order
Hunting for Flaviviruses: Designing a Diagnostic RT-PCR for Detection of Mosquito Infections	Axel Adams, Tony Goldberg (Mentor)	1
Observing Differences Between Healthy and Cancer Cell Migration Using Synthetic Cell Adhesion Arrays	Sam Loveland, William Murphy (Mentor)	2
Reconstructing the Energy and Composition of Cosmic Rays With Icetop	Adam Wright, Stefan Westerhoff (Mentor)	3
Gadget - Genes Associated by Documents, Genes, Events, and Text	Matthew Ziegler, Mark Craven (Mentor)	4
Anti-CD40 mAB And Monophosphoryl Lipid A Synergize At Low Intratumoral Doses to Mediate T Cell-Independent Antitumor Effects Against Local and Distant Tumors	Tyler Van De Voort, Alexander Rakhmilevich (Mentor)	5

LANDMARK B

Title	Presenters and Mentors	Order
Ornithine Decarboxylase Antizyme 1'S Role in Thyroid Hormone Mediated Cardiac Hypertrophy	Marielle Brenner, Eugene Kaji (Mentor)	1
Comparative Study for the Virus Production of Vesicular Stomatitis Virus on Tumor Cells	Bingming Chen, Adam Swick (Mentor)	2
Intratumoral Hu14.18-IL2 Induces Enhanced Antitumor Effects Involving Activated T- and NK-Cells	Nicholas Kalogriopoulos, Paul Sondel (Mentor)	3
Metabolic Pathway Studies of 3-Iodothyronamine (T1AM) on Lipid Metabolism by NMR Spectroscopy	Hannah Reiland, Fariba Assadi-Porter (Mentor)	4
Characterizing the Genetic Regulation of the FAB-ACPP Locus in Escherichia Coli	Brian Rekoske, Richard Gourse (Mentor)	5
Role of Collagen Synthesis in Ventricular and Vascular Adaptation to Hypoxic Pulmonary Hypertension	David Schreier, Naomi Chesler (Mentor)	6

Session II: 2:15 – 3:30 pm**FIFTH QUARTER**

Title	Presenters and Mentors	Order
The Black Hair Politick: Black Collegiate Women at Predominately White Universities	Erika Dickerson, Sandra Adell (Mentor)	1
Studying Science in the Studio: The Integration of Knowledge Through Dance Composition	Rebecca Kesting, Katherine Corby (Mentor)	2
Youth Empowerment and Community Organizing	Sean Kirkby, Michael Abalos, Dehidanin Cuevas, Chloe Vanderweele, Brian Christens (Mentor)	3
Attitudes Towards the Asturian and Castilian Languages in Asturias, Spain	John Prusynski, Rajiv Rao (Mentor)	4
Yoga That Defies Gravity	Jamie Tolmatsky, Gudrun Buhnemann (Mentor)	5

TRADITIONS

Title	Presenters and Mentors	Order
Southeast Asia and South China's Impact on the Silk Road and Europe	Eric Carlucci, Nam Kim (Mentor)	1
Lions, Jaguars, and Leopards, Oh My! the Role of Local Communities in Big Cat Conservation	Brittany Gilles, James Berkelman (Mentor)	2
Remembering the City of Priam: Memory and Appropriations of Bronze Age Remains at Greco-Roman Ilion	Geoffrey Ludvik, William Aylward (Mentor)	3
Investigating Conserved Regions of the Turnip Mosaic Virus Genome	Nicole Mihelich, Danielle Savino, Aurelie Rakotondrafara (Mentor)	4
The Effects of HMG-COA Reductase Inhibitors on Valvular Interstitial Cell Gene Expression	Kelsey Duxstad, Chloe Mccoy (Mentor)	5

WISCONSIN IDEA

Title	Presenters and Mentors	Order
High School Teacher Value-Added Models: Specification, Properties, and Potential Sources of Bias	Raymond Kluender, Robert Meyer (Mentor)	1
Comparing and Contrasting How Car Dealerships Are Run Under Different Ownership Types	Benjamin Saxon, Debra Holschuh-Houden (Mentor)	2
Fiber Optic Fibers in Engine Access Ring	Joe Sterken, Scott Sanders (Mentor)	3
Modifying Study Design to Decrease Attrition in Human Subject Interventional Studies	Alex Strassman, James Davis (Mentor)	4
The Rural Healthcare Provider: Barriers and Benefits to Their Practice	Hope Villiard, Megan Moreno (Mentor)	5

LANDMARK B

Title	Presenters and Mentors	Order
Impact of Freeze-Thaw Conditions on Geosynthetic Clay Liners	Erin Berns, Sabrina Bradshaw (Mentor)	1
The Effect of Wind Generated Radio Noise on Neutrino Detection at Icecube	Edward Cheng, Jan Auffenberg (Mentor)	2
How Does Calcium Binding Lead to Synaptotagmin 1 Activation?	Stefan Elde, Chantell Evans (Mentor)	3
Neutrophil Recruitment to A. Fumigatus Secondary Fungal Metabolites	Jake Greeneway, Erwin Berthier (Mentor)	4
Studying Transcription Initiation Process Using Novel Fluorescent Techniques	Emily Lingeman, M Thomas Record (Mentor)	5

Continued on next page

Talks

continued

Session III: 3:45 – 5:00 pm

FIFTH QUARTER

Title	Presenters and Mentors	Order
Nanotechnology in the Market: How the Nanotechnology Industry Views Risk and Regulation	Sean Becker, Joseph Conti (Mentor)	1
Savor South Madison: How Emerging Technology Promotes a Sense of Community	Anna Bukowski, Maarja Anderson, Erin Luhmann, Young Kim (Mentor)	2
The Diagnostic Process of Borderline Personality Disorder	Grant Gigot, Elizabeth Muenchow, Annabelle Potvin, Sandra Sulzer (Mentor)	3
The Dynamics of Philanthropic Family Foundations Within Family Businesses	Jayne Jones, Debra Holschuh-Houden (Mentor)	4

TRADITIONS

Title	Presenters and Mentors	Order
Patterns to Polynomials Associated With Partitions	Ayah Almousa, Melanie Wood (Mentor)	1
Effectiveness of Bentonite As an Annular Seal in Monitoring Wells	Cole Christiansen, Sabrina Bradshaw (Mentor)	2
Sorting Single-Wall Carbon Nanotubes Via Column Chromatography	Paul Dieterle, Michael Arnold (Mentor)	3
Evaluating Water Level Fluctuations in a Sandstone Aquifer System	Lauren Lande, Christopher Gellasch (Mentor)	4
Predicting Neutral-Cloud Absorption Line Profiles in Galactic Winds	Michelle Wojtaszek, John Everett (Mentor)	5

WISCONSIN IDEA

Title	Presenters and Mentors	Order
Land Code Use	Joseph Kahl, Nancy Wiegand (Mentor)	1
Impacts of Economic and Environmental Conditions on the State of North Dakota	Katherine Mitchell, Leann Tigges (Mentor)	2
After the War: The Role of Museums in Cultural Patrimony in Post-Revolutionary Latin America	Brooke Perry Hoesli, Guillermina De Ferrari (Mentor)	3
Definition of the Homeland: Case Study of the Abu Musa and Tunb Islands	Jorge David Ramos-Mercado, Nadav Shelef (Mentor)	4
The Ultimate Game Theory: Monetary Negotiation	Lisa Vang, Lyn Van Swol (Mentor)	5

NORTHWOODS B

Title	Presenters and Mentors	Order
Developing a Novel Tool for Investigating the Fungal Genome	Thomas Bryan, Jean-michel Ane (Mentor)	1
The Isolation, Identification, and Characterization of Wild Yeasts	Brielle James, Christopher Hittinger (Mentor)	2
The Role of Lipases in <i>Aspergillus Flavus</i>	Rachel Jones, Katharyn Schmitt (Mentor)	3
Characterization of the Abortive Initiation Products of <i>E. Coli</i> Rna Polymerase	Mikaela Poulos, Sara Heitkamp (Mentor)	4
General Abstract	Xue Xia, Michael Cox (Mentor)	5

LANDMARK B

Title	Presenters and Mentors	Order
Real-Time Breath Analysis Shows Rapid Lipid Utilization Following T1AM Injection in Mice	Michael Bergquist, Fariba Assadi-porter (Mentor)	1
Fatty-Acyl Carnitine Mediated Insulin Secretion	Alberto Guerra, Mufaddal Soni (Mentor)	2
Developing a Thermal Hypergelsic Index of Neuropathic Pain in Spinal Cord Injured Rats	HungTae Kim, Taehee Kim, Kristen Obiakor, Steven Siegel, Jeanet Ugalde, Ruby Valadez, Gurwattan Miranpuri (Mentor)	3
Induction of Dld-1 Colon Cancer Cell Death by Chrysin May Be Mediated Via the AhR Pathway	Bryant Megna, Gregory Kennedy (Mentor)	4
CSK Signaling Controls Proliferation of Human Cardiomyocytes Derived From Pluripotent Stem Cells	Kexian Zhu, Xiaojun Lian, Sean Palecek (Mentor)	5

LANDMARK A

Title	Presenters and Mentors	Order
Human and Health Technology	Tate'yanna Bennett, Onur Asan (Mentor)	1
Healthy Choices: Made Easy by Waupaca Eating Smart	Josie Golembiewski, Ana Martinez-Donate (Mentor)	2
The Use of Social Network Sites in Healthcare Research: Here and Abroad	Megan Pumper, Megan Moreno (Mentor)	3
Developing Community in the Garden: The Spatial Relationships of Socialization	Kellie Schweich, Samuel Dennis (Mentor)	4
Protein Kinase CE, an Initial Signal in Prostate Cancer Development and Metastasis.	Joseph Fischer, Bilal Hafeez (Mentor)	5

Roundtables

Session I: 12:30 – 2:00 pm

GOVERNANCE

Title	Presenters and Mentors	Order
Challenges in Family Business	Luis Aldana, Debra Holschuh-Houden (Mentor)	1
Intergenerational Influences on School-Related Parenting	Courtney Belawich, Elizabeth Halama, Rebekah Lemahieu, Kyle Miller, Thomas Murphy, Kristin Orlovski, Janean Dilworth-Bart (Mentor)	2
Peer Partner Project	Leslie Cohen, Jared Burris, Colleen Moss (Mentor)	3
Snowmobiling: Climate Change Impacts and Adaptation Strategies	Catherine Harris, Adena Rissman (Mentor)	4
Badri Carpentry	Arnel Zahirovic, Debra Holschuh-Houden (Mentor)	5
Children With Chronic Conditions: Parent Perceptions of School Health Services	Andrea Jordan, Lori Anderson (Mentor)	6

SCHOLARS

Title	Presenters and Mentors	Order
Laryngeal Somatosensory Deficits in Aging	Qateeb Khan, Michael Hammer (Mentor)	1
Is DNA Opening by RNA Polymerase Generally the Slow Step in Forming Initiation-Competent Complexes?	Mark Kraemer, M Thomas Record (Mentor)	2
Human-Computer Interaction	Kim Le, Jie Xu (Mentor)	3
Shear Stress and Cyclic Nucleotides Modify Posttranslational Phosphorylation of Cx43-Gap Junction and eNOS Proteins in Uterine Artery Endothelial Cells During Pregnancy	Ethan Schuler, Ronald Magness (Mentor)	4
Involvement of Osteoclastogenesis in Abdominal Aortic Aneurysms	Natsumi Shiotani, Dai Yamanouchi (Mentor)	5
Bacterial Velocity in Viscous Fluids: Why Do Swarmer Cells Outswim Vegetative Cells?	Sonia Trevino-Dopatka, Douglas Weibel (Mentor)	6

FIRST NATIONS

Title	Presenters and Mentors	Order
Templeton Hostile Media Effect in Teach the Controversy	Elizabeth Cao, Gabriel Orduna, Albert Gunther (Mentor)	1
Phonetic Phenomena in the Spanish of Heritage Speakers	Gina Perez, Rajiv Rao (Mentor)	2
Guidebook to Byzantine Historiography	Colin Terwelp, Leonora Neville (Mentor)	3
The Greatest Experiment: American Emigrants and the Soviet Union	Paula Uniacke, Francine Hirsch (Mentor)	4
Mass Media Versus Citizen Journalism: A David and Goliath Battle	Joshua Villanueva, Bryan McLaughlin (Mentor)	5

Roundtables

Session II: 2:15 – 3:30 pm

GOVERNANCE

Title	Presenters and Mentors	Order
Ecology of the Earliest Eutherian Mammal	Nicole Baker, Warren Porter (Mentor)	1
Cultural Property and Archaeology Law	Kristina Bauer, Kimberly Alderman (Mentor)	2
Children's Memory and the Effects of Generalizability	Mary Galle, Charles Kalish (Mentor)	3
Style Shuffler	Robert Klein, Phillip Kim (Mentor)	4
Real Time Water Imaging System	Nicole Mohapp, Chin-Hsien Wu (Mentor)	5

SCHOLARS

Title	Presenters and Mentors	Order
Investigation of A-Olefin Production in <i>Synechococcus</i> Sp. Strain PCC 7002	Nicolaus Herman, Brian Pflieger (Mentor)	1
Determining the Time and Location of Expression of ATF2 in <i>Aedes Aegypti</i>	Peter Monteagudo, Que Lan (Mentor)	2
Perceptions of Isolation Precautions	Riley Young, Nasia Safdar (Mentor)	3
Analysis of Snowmobile Injuries of Patients of University of Wisconsin Hospital, Madison	Aisha Prasad, Tommy Yu (Mentor)	4
Feature Extraction in Functional Brain Imaging Using Differential Equations	Atefeh Namvaryshad, Amir Assadi (Mentor)	5

Roundtables

Session III: 3:45 – 5:00 pm

SCHOLARS

Title	Presenters and Mentors	Order
Relationships Between Fatigue and Chronic Heart Failure	Nicole Cancel, Beth Fahlberg (Mentor)	1
Interpretation of Effects of Hydroxylated Compounds on DNA Hairpin Stability	Zeeshan Haq, Douglas Knowles (Mentor)	2
Isolation of the Promoter of a Hormone Producing Gene in the Yellow Fever Mosquito	Lauren Leopold, Que Lan (Mentor)	3
Quantifying the Effects of Urea on the B' Clamp at T7A1 Promoter	Samantha Saykao, M Thomas Record (Mentor)	4
Implementation of Catalysis in Understanding Atmospheric Oxidation	Christopher Webster, Kate Skog (Mentor)	5
Effect of Post-Testing Location on Parkinsonian Rat Ultrasonic Vocalizations	Kaylee Cullen, Michelle Ciucci (Mentor)	6

FIRST NATIONS

Title	Presenters and Mentors	Order
Investigating the Role of <i>Medicago truncatula</i> Roggefs in Root Nodule Symbiosis	Dana Billing, Muthusubramanian Venkateshwaran (Mentor)	1
Chemical Synthesis of Atypical and Tetraubiquitin Chains to Elucidate the Ubiquitin Code	Lauren Buckley, Eric Strieter (Mentor)	2
Temperature Dependent Effects on Alfalfa Pollen Viability	Carly Murphy, Megan Van Etten (Mentor)	3
Effects of Water Depth and Tuber Density on Siberian Crane Feeding Patterns on Poyang Lake	Dali Soh, Anna Pidgeon (Mentor)	4

Continued on next page

Roundtables

continued

FORWARD

Title	Presenters and Mentors	Order
Project Read	Ellen Ehlers, Melinda Leko (Mentor)	1
The "Black Box" of Bias	Charielle McMullan, Carol Isaac (Mentor)	2
Engage Children in Science: Developing a Service-Learning Course	Maura Mullen, Thomas Bryan, Katie Kennedy, Theresa Mueller, Lawrence Neumann, Briana Nielsen, Alec Walker, Reid Woolworth, Dorothea Ledin (Mentor)	3
Styleshuffler Project	Pedro Soares, Phillip Kim (Mentor)	4
Phonetic Phenomena in the Spanish of Heritage Speakers	Wendy Wolf, Rajiv Rao (Mentor)	5
Family Owned Breweries VS. Publicly Owned Breweries	Brad Nardick, Trey Bertram, Debra Holschuh-Houden (Mentor)	6

SIFT & WINNOW

Title	Presenters and Mentors	Order
Relationships of White Matter Microstructure to Measures of Anxiety in Childhood and Adolescence	Dan Destiche, Sharon Lu, Andrew Alexander (Mentor)	1
Social Adaptations of Freshman to a University Atmosphere	Oren Feldman-Schultz, B Brown (Mentor)	2
The Effects of Parkinson's and Aging on Upper-Respiratory Tract Sensory-Motor Coordination	Ian Padron, Michael Hammer (Mentor)	3
Spinal Cord Injury: Obese Inpatients	Vincent Sirocchi, Tommy Yu (Mentor)	4
The Family Court Assistance Project's Evaluation of Clinic Resources	Andrea Walker-Cousins, Quamaine Bond, Marsha Mansfield (Mentor)	5
Spinal Cord Injury in the United States and China, an Analysis of Workers and Farmers	Alex Cook, Chou Thao Tommy Yu (Mentor)	6

Posters

Varsity Hall

PS#	TITLE	Presenters and Mentors	Session
1	A Study of the Construction of Childhood Vulnerability in Rural Malawi	Laura Raicu, Naman Siad, Kirk Anderson, Nancy Kendall (Mentor)	I
2	Young Children's Drawing and Word Learning Capabilities Through Touchscreen Applications	Taylor Fulmer, Ashley Brennan, Kelly Lyke, Alexandra Nicholas, Kristin Shafer, Heather Kirkorian (Mentor)	II
3	3-D Scaffold for Schwann Cell Myelination In-Vitro	David Schreier, Courtney Krueger, Jacob Meyer, Nicholas Shiley, John Svaren (Mentor), John Puccinelli (Mentor)	III
4	Detection of Filamentous Salmonella on Low-AW Food Items and Enumeration Method of Filamentous Salmonella	Bingming Chen, Amy Wong (Mentor)	II
5	Children With Epilepsy: a Study of White Matter Connectivity Using Tractography	John Renfrew, Ishmael Amarreh (Mentor)	II
6	The Role of PGC-1A in Regulating Fat Cell Metabolism	Albert Budhipramono, Rozalyn Anderson (Mentor)	I
7	The Role of AMPK in Fat Cell Metabolism	Monica Chou, Rozalyn Anderson (Mentor)	III
8	Simulation of Electron Bernstein Wave Current Drive in the Madison Symmetric Torus	Eric Hendries, Jay Anderson (Mentor)	I
9	School Nurse Interventions for Oppositional Defiant Disorder: a Review of the Literature	Joseph Miller, Lori Anderson (Mentor)	III
10	ADHD Management in Schools	Laura Scharenbroch, Lori Anderson (Mentor)	II
11	Impact of Age on Lipid Accumulation in Rhesus Monkey Skeletal Muscle	Lauren Willoughby, Rozalyn Anderson (Mentor)	III
12	Understanding the Synthesis of Single-Walled Carbon Nanotubes by Chemical Vapor Deposition	Tou A Chang, Michael Arnold (Mentor)	II
13	Evaluation of the Novel Graphene on ITO Flexible Transparent Conductor for Photovoltaics Application	Wesley Collier, Michael Arnold (Mentor)	II
14	Influence of Intermediate Phase Chemical Structure on Optical Properties of Carbon Quantum Dots	Keegan Mackin, Michael Arnold (Mentor)	II
15	Controlled Large-Area Multilayer Graphene Growth by CVD on Nickel Thin Films at Ambient Pressure	Amir Mashal, Michael Arnold (Mentor)	I
16	Orienting Single-Walled Carbon Nanotubes With Titania Nanocrystals for Higher-Efficiency Solar Cells	Frederick Prehn Jr, Michael Arnold (Mentor)	I
17	Investigating Titania As an Electron Acceptor in Carbon Nanotube Photovoltaics	Chris VanBrocklin, Michael Arnold (Mentor)	I
18	Improving the Doctor- Patient Relationship at HCI Lab	Stephen Vey Jr., Onur Asan (Mentor)	I
19	Monomeric VS. Multimeric Properties of Sweet Taste Receptor T1R2 Subunit Protein	Maxwell Alexander, Fariba Assadi-Porter (Mentor)	I
20	A Single Residue ARG43 in Brazzein, a Low-Calorie Protein Sweetener, Completely Abolishes Sweetness	Sarah Porter, Fariba Assadi-Porter (Mentor)	I
21	Role of Tyrosine 11 As a Switch for the Interaction Between Brazzein and the Human Sweet Receptor	Minaliza Shahlapour, Fariba Assadi-Porter (Mentor)	III
22	PC-3 Cells as an Inducible Model for Cancer Metastasis to Screen for Pharmacological Treatments	Norma Magallanes, Craig Atwood (Mentor)	III

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23	Structure and Function of an Endocytic Adaptor Complex in C.Elegans	Sun Haeng Lee, Anjon Audhya (Mentor)	I
24	Fyodor Dostoevsky: Chapters From the Underground	Ben Pauley, Richard Avramenko (Mentor)	II
25	Bronze Casting at Ancient Troy: New Light on the West Sanctuary in Hellenistic Times	Jacquelyn Bonavia, William Aylward (Mentor)	III
26	Induction of Apoptosis and Necrosis in Neuroblastoma	Bryan Menapace, Dana Baiu (Mentor)	I
27	Evaluating the Role of Risk in Wisconsin Biomass Infrastructure Development	Ashwini Bharatkumar, Carol Barford (Mentor)	II
28	Investigation of the Role of Dlc1 in Single Cell Wound Repair	Ross Pedersen, William Bement (Mentor)	III
29	Social, Economic, and Environmental Success of Marine Protected Areas	Katherine Mitchell, Erika Cardenas, Lawrence Neumann, James Berkelman (Mentor)	I
30	Differentiation of MSCS to Chondrocytic Lineage and Demonstrate Expression of Collagen and Aggrecan	Mary Finedore, Neehar Bhatia (Mentor)	I
31	Gene Expression of Down Syndrome Induced Pluripotent Stem Cells	George Bonadurer, A Bhattacharyya (Mentor)	I
32	Cell Death in Down Syndrome iPSCS	Chelsie Maguire, A Bhattacharyya (Mentor)	I
33	Down's Syndrome iPSCS Proliferate at Same Rates As Normal iPSCS	Katharine Molinarolo, A Bhattacharyya (Mentor)	III
34	Fragile X Syndrome-Induced Pluripotent Stem Cell Research	Michael Musser, A Bhattacharyya (Mentor)	III
35	Estruendomudo-Peruvian Independent Publishing House, an Innovative Approach	Ann Marie Edlebeck, Ksenija Bilbija (Mentor)	III
36	On Garbage, Books and Literacy: a Peruvian Example in the Context of the United States	Jennifer Stitgen, Ksenija Bilbija (Mentor)	III
37	Sequencing the Hcf1 Locus in C57BR/CDJ Mice for Genes Conferring Susceptibility to Liver Cancer	Krista Batenhorst, Andrea Bilger (Mentor)	II
38	The Effects of IFI202B and AIM2 on Hepatocellular Carcinoma	Adam Fisher, Andrea Bilger (Mentor)	III
39	Preeclampsia: Hypertension in Pregnant Women	Iboro Udomon, Dinesh Shah (Mentor), Cynthia Bird (Mentor)	II
40	The Relationship of Odonata Larvae and Aquatic Macrophytes in Lake Wingra, Madison, Wisconsin	Stephanie McIlquham, Robert Bohanan (Mentor)	III
41	Symbiotic Microflora of Eurytemora Affinis	Khamsai Vang, Martin Bontrager (Mentor)	III
42	Accounting for Nitrogen in the Exchange Complex of GCLs	Missy Setz, Sabrina Bradshaw (Mentor)	I
43	Health Outcome Imagination and Self Care Behaviors in Teens With Type 1 Diabetes	Laura Mannino, Chelsea Rentmeester, Patricia Brennan (Mentor)	I
44	Immunolocalization of Agonist Induced Fos and Receptor Specific Antibody Binding of 5HT2A-R	Rachel Foreman, Mark Brownfield (Mentor)	I
45	Distribution of 5-HT2C Serotonin Receptor by Immunocytochemistry	Courtney Lamondin, Mark Brownfield (Mentor)	I
46	The Functional Distribution of 5-HT4 Receptors in Rat Brain	Nathaniel Snell, Mark Brownfield (Mentor)	III
47	Preference of Hawkmoth and Bumble-Bee for Floral Traits in the Rocky Mountain Columbine, Aquilegia	Ross Ziobro, Johanne Brunet (Mentor)	III

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48	MRI Contrast Agents and the Distribution of Recombinant Adeno-Associated Virus in Rat Striatum	Jordan Wackett, Corinna Burger (Mentor)	I
49	Inhibition of STAT-1 Signaling as a Novel Therapeutic Target of Pediatric Hematologic Malignancies	Michael Martinez, Erbay Salievski, Christian Capitini (Mentor)	III
50	Targeting SSX to Alter GVHD and GVL Response in Leukemia Patients	Kaitlyn Voelz, Katelyn Goodman, Christian Capitini (Mentor)	I
51	Computer Activities, Physical Exercise, and Mild Cognitive Impairment: a Population-Based Study	Taryn Silber, Cynthia Carlsson (Mentor)	I
52	Center for Womens Health Research, R01 Grant Study	Ismat Bhuiyan, Mary Carnes (Mentor)	I
53	Peer-Review at National Institutes of Health (NIH): Is There Bias Against Women R01 Grants Applicants	Shenell Edwards, Mary Carnes (Mentor)	II
54	Investigating Implicit Gender Bias in the NIH's Peer Review Process of Research Program Grants	Erika Vassar-Olsen, Mary Carnes (Mentor)	III
55	Electrostatic Interactions Between Nascent Proteins and the Ribosomal Surface	Anders Knight, Brian Arnold, Silvia Cavagnero (Mentor)	III
56	Revisiting Anfinsen's Thermodynamic Hypothesis: Energy Barriers Across the Folding Energy Landscape	Yufan Wu, Silvia Cavagnero (Mentor)	I
57	Inhibition of NHE-1 After OGD in Hippocampal Astrocytes Decreases Cytokine Release	Benjamin Hiller, Pelin Cengiz (Mentor)	II
58	Chemistry of the Brady Soil	Ross Edel, Nina Chaopracha (Mentor)	III
59	Inflammation Contributes to Depression Following Hematopoietic Stem Cell Transplantation	Alexandra Erdmann, Erin Costanzo (Mentor)	I
60	Spirituality Predicts Quality of Life Following Hematopoietic Stem Cell Transplantation	Laura Leeson, Erin Costanzo (Mentor)	III
61	Illness Perceptions Predict Health Practices Following Hematopoietic Stem Cell Transplantation	Kathryn Schmidt, Erin Costanzo (Mentor)	III
62	Social Support Predicts Mental Health Among Cancer Patients Undergoing Stem Cell Transplantation	Savitri Viozat, Erin Costanzo (Mentor)	I
63	Nonsense-Mediated mRNA Decay Targeting in the S. Cerevisiae MSH4 Gene	Bethany Zeitler, Michael Culbertson (Mentor)	I
64	Alcohol Increases Preference for Risk by Reducing Sensitivity to Uncertainty	Stephanie Dresen, Mark Starr (Mentor), John Curtin (Mentor)	II
65	Is the Retinoic Acid Responsive Gene, NEDD9, Required for Adult Neurogenesis?	Krista Zillmer, Margaret Dame (Mentor)	II
66	Eosinophil Associated Nucleotidase Activity in Peripheral Blood and Asthmatic Airway Lavage Samples	Lauren Banaszak, Loren Denlinger (Mentor)	I
67	Precision Measurement of the Solar Dipole Using Icecube	Craig Price, Paolo Desiati (Mentor)	I
68	Mother's School Identities and Children's Academic Readiness	Elizabeth Halama, Courtney Belawich, Rebeka Lemahieu, Kyle Miller, Thomas Murphy, Kristin Orłowski, Janean Dilworth-Bart (Mentor)	II

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70	Thiamine Biosynthesis in a Heterologous System	Justin Zik, Diana Downs (Mentor)	II
71	Final Consonant Cluster Reduction in African American English Dialect	Elizabeth Machurick, Jan Edwards (Mentor)	III
72	Assessing Importance of ZAP1 Regulated Genes for Zinc-Limited Growth in <i>Saccharomyces Cerevisiae</i>	Ginelle Zimmerman, David Eide (Mentor)	II
73	Early Predictors of Treatment Services for Children With Autism Spectrum Disorders	Sarah Allen, Susan Ellis Weismer (Mentor)	III
74	How Children on the Autism Spectrum Respond to Questions Posed by Parents	Rebecca Mostofi, Susan Ellis Weismer (Mentor)	II
75	Effect of Grammaticality of Parent Language Input on Language Development in Children With Autism	Madeleine Swenson, Susan Ellis Weismer (Mentor)	I
76	Deletion of <i>GidA</i> and <i>GidB</i> Genes in <i>Salmonella</i> Enterica Serovar Typhimurium	Imaan Saeed, Amin Fadl (Mentor)	I
77	Determinants of Disease-Related Individualized Quality of Life in Heart Failure	Mai Thao, Beth Fahlberg (Mentor)	I
78	Effects of Age and Hearing Loss on the Auditory Middle Latency Response	Kelsey Peters, Jennifer Nguyen, Cynthia Fowler (Mentor)	III
79	Examining the Role of <i>Klar</i> in Regulating Synaptic Growth and Axonal Transport	Kathryn Narem, Barry Ganetzky (Mentor)	III
80	Structure of the Isolated Pin1 WW Domain Obtained by Racemic Crystallization	Hyun Gi Yun, Samuel Gellman (Mentor)	II
81	ATSFH1 Lipid Transporter Affects CA2+ Signaling, Promoting Root Hair Growth of <i>Arabidopsis Thaliana</i>	Marta Studnicka, Simon Gilroy (Mentor)	II
82	The Degree of Genetic Influence on Autism	Maria Chavez, Harold Goldsmith (Mentor)	III
83	Cortisol and BMI as Predictors of Anxiety and Eating Disorder Symptoms in Children and Adolescents	Erica Goodman, Harold Goldsmith (Mentor)	I
84	FKBP5, NPY, Behavioral Inhibition, and Socioeconomic Status as Risk Factors for Adolescent Anxiety	Andrea Roberts, Harold Goldsmith (Mentor)	I
85	Neuronal Growth Cones May Use Invasopodia to Degrade ECM for Axon Guidance	Kelly Gregus, Timothy Gomez (Mentor)	III
86	Function of a Nematode Intestine Localization Protein in Nematode Colonizing <i>Xenorhabdus Nematophila</i>	Seong-In Hyun, Heidi Goodrich-Blair (Mentor)	II
87	Phylogenetic Study of Interaction Between <i>E. Coli</i> Transcription Factor <i>CRL</i> and Σ 5 of RNAP	Hueylie Lin, Richard Gourse (Mentor)	I
88	Role of Flotillin-2 in Neural Development	Kassandra Ford, Mary Halloran (Mentor)	I
89	Role of ETC Complex IV Inhibition in Influenza Proliferation Suppression	Katherine Omernick, Linhui Hao (Mentor)	III
90	The Role of Parents in Promoting STEM Motivation	Maria Mens, Judith Harackiewicz (Mentor)	III
91	Biocore Outreach Ambassadors: Assessing Partnerships With Rural K-12 Science Educators	Rebecca Breuer, Daniel Parrell, Michelle Harris (Mentor)	III
92	Symptoms of the Broader Autism Phenotype and Marital Quality	Molly Palzkill, Sigan Hartley (Mentor)	I

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93	Amyloid Protein Buildup in Down's Syndrome Patients	Kireeti Reddy, Sigan Hartley (Mentor)	I
94	Sorting Nexin 5 and PIP2 Binding in Regulation of EGFR Degradation	Sheldon Zhai, Andrew Hedman (Mentor)	II
95	Identification of the Mechanism for TCDD-Mediated Downregulation of SOX9B in Zebrafish Embryos	Alex Gooding, Warren Heideman (Mentor)	I
96	Early Sublethal TCDD Exposure Leads to Skeletal Effects in Adult Zebrafish	Kelly Mularkey, Warren Heideman (Mentor)	III
97	A Comparison of Two Methods for Analyzing Running Gait Kinematics	Keith Knurr, Bryan Heiderscheit (Mentor)	II
98	Effects of Bortezomib and Lenalidomide on Macrophages in Multiple Myeloma	Ryan Denu, Peiman Hematti (Mentor)	I
99	The Role of TACI in MSC-Mediated Lymphocyte Suppression	Claudia Goodsett, Peiman Hematti (Mentor)	I
100	The Role of NF-KB in Bone Marrow Derived Mesenchymal Stem Cell Biology	Surabhi Pancholi, Peiman Hematti (Mentor)	I
101	Obesity and Parity Affect the Mammary Gland Serotonin (5-HT) System	Kathryn Merriman, Laura Hernandez (Mentor)	III
102	Opportunities and Challenges of a Family Owned Manufacturing Business in a Rural Community	Andrea Belmonte, Debra Holschuh-Houden (Mentor)	I
103	Family Ownership of Professional Sport Franchises	Samuel Bernstein, Debra Holschuh-Houden (Mentor)	III
104	Investing in Publicly Traded Family Businesses	Ziyang Chen, Debra Holschuh-Houden (Mentor)	III
105	The Gender Inequality With Leadership Roles in Family Businesses	Mia Fabishak, Debra Holschuh-Houden (Mentor)	I
106	First Generation Succession Planning for Family Business	Steve Hegedus, Debra Holschuh-Houden (Mentor)	I
107	Successfully Transitioning to Outside Management in a Family Business	Meghan Khoury, Debra Holschuh-Houden (Mentor)	II
108	Family Business in Reality Television	Annie Luchsinger, Debra Holschuh-Houden (Mentor)	II
109	Gender and the Family Business	Rachel Resnick, Debra Holschuh-Houden (Mentor)	II
110	Separating Family and Business	Mari Schlossmann, Ellie Feldman, Debra Holschuh-Houden (Mentor)	I
111	Conflict and Decision Making Under Shared Leadership in a Family Owned Business	Alec Schwartz, Debra Holschuh-Houden (Mentor)	I
112	Management Styles in Family Business	Robert Stutz, Debra Holschuh-Houden (Mentor)	I
113	Family Owned Craft Breweries and Their Competitive Advantage Over Large Breweries	Charles Thio, Debra Holschuh-Houden (Mentor)	I
114	The Role of Nepotism in Family Businesses and Society	Victoria Webb, Debra Holschuh-Houden (Mentor)	III
115	Study of Structural Connectivity in Children With New-Onset Epilepsy	Brian Ji, David Hsu (Mentor)	I
116	Android-Based Face Recognition Login System	Junjue Wang, Wei-ting Lo, Yu Hu (Mentor)	III
117	The Link Between Marital Conflict and Adolescents' Negative Cognitive Style and Depression	Holly Flores, Janet Hyde (Mentor)	II
118	Relationship Between Mothers' Granting of Autonomy, Adolescents' Self-Efficacy and Math Achievement	Molly Hottman, Janet Hyde (Mentor)	III

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120	The Effects of Folic Acid on Peripheral Nervous System Regeneration	Wil Gibb, Emily Skarda, Bermans Iskandar (Mentor)	II
121	The Molecular Basis of Trans-Generational Regeneration by Folate	Jamie Lockwood, Brenna Tomczak, Bermans Iskandar (Mentor)	III
122	The DREZ Experiment: a Study of Neuron Regeneration	Joslyn Strebe, Bermans Iskandar (Mentor)	II
123	Histological Methods To Determine Graft-Host Synapse Formation	Kelly Wallin, Matthew Jensen (Mentor)	I
124	Plasma Concentration of P-Selectin in Asthma Patients of Ranging Severity Over Time	Ethan Stortz, Mats Johansson (Mentor)	I
125	Effect of FGF2 Gradients on Human Neural Progenitor Cells in Microfluidic Devices	James Dorrance, Thomas Keenan (Mentor)	I
126	Microfluidic Characterization of Polyethylene Glycol Diffusivity	Andrew Hanske, Thomas Keenan (Mentor)	III
127	Characterization of Eph and Ephrins in Human Neural Progenitor Cells Using Immunocytochemistry	Alexandra Procak, Thomas Keenan (Mentor)	II
128	Generation of Ephrin Gradients Within a Poly(Ethylene Glycol) Matrix Via Photoincorporation	Jeffrey Theisen, Thomas Keenan (Mentor)	I
129	How Palliative Care Nurses Prepare Families for the Death of a Loved One	Michelle Radle, Kathryn Michalski, Sarah Violante, Karen Kehl (Mentor)	I
130	Relative Humidity Greater Than 70% Significantly Increases <i>Sclerotinia Homoeocarpa</i> Growth	Jeanette Shultz, James Kerns (Mentor)	II
131	Molecular Mechanisms of Increased Sensitivity to Radiation in Human Papillomavirus Positive Head And Neck Squamous Cell Cancers	Tim Baerg, Randall Kimple (Mentor)	I
132	Molecular Profiles and Therapeutic Response of Mouse Models of Head and Neck Cancer	Grace Blitzer, Randall Kimple (Mentor)	I
133	Increased Apoptosis Underlies Improved Outcomes in HPV-Positive Head and Neck Cancers	Molly Smith, Randall Kimple (Mentor)	III
134	The Relationship Between Fetal Iron Deficiency and the Presence of Asthma Biomarkers at Birth	Natalie Dosch, Pamela Kling (Mentor)	II
135	Hypertension in Offspring of Gestational Diabetes and Sex-Specific Changes in Kidney Maculae Densa	Rebecca Lundberg, Pamela Kling (Mentor)	II
136	Effects of Gestational Iron Deficiency on Kidney Development Through the Evaluation of Nephrogenesis	Zachary Smith, Pamela Kling (Mentor)	II
137	NM404 Targets Malignant Brain Cancer Stem Cells by Disrupting the Akt Molecular Pathway	Hong-En Chen, Paul Clark (Mentor), John Kuo (Mentor)	III
138	Symptoms and Self-Management Strategies in Patients Receiving Treatment for Advanced Cancer	Marissa Mullins, Katie Cyrzan, Kristine Kwekkeboom (Mentor)	III
139	Recycling Dictators: Ex-Authoritarians in New Democracies	Sarah Eucalano, Brett Kyle (Mentor)	I
140	Expression of Thanatos-Associated Protein During Mosquito Growth	Tyler Schwaegler, Que Lan (Mentor)	III

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141	Anaerobic Digestion	Bryan Banh, Kendra Dahl, Kelly Derauf, Rebecca Larson (Mentor)	III
142	Comparing Methods for Eliciting Health Promotion Strategies in Caregivers of Children With Autism	Brenna Patterson, Kayla Larsen, Elizabeth Larson (Mentor)	III
143	What Are the Gender Differences in College Students' Influences on Seeking STD Screening?	Alexander Lacey, Uba Backonja, Diane Lauver (Mentor)	III
144	Does Listening to Daily Nutrition Podcasts Influence Fruit and Vegetable Intake?	Emma Oanes, Diane Lauver (Mentor)	I
145	Probing Neuroendocrine Regulation of Energy Homeostasis by Mass Spectrometry	Sujin Yoo, Lingjun Li (Mentor)	III
146	Immigrant Families: Literacy and Identity Development Over Time and Space	Sou Her, Jieun Kim, Catherine Lilly (Mentor)	III
147	Immigrant Families: Literacy and Identity Development Over Time and Space (Social Sciences)	Cheyenne Lentz, Catherine Lilly (Mentor)	I
148	Immigrant Families: Literacy and Identity Development Over Time and Space	Ally Xiong, Catherine Lilly (Mentor)	II
149	Herbivory Defense in Yellow Monkeyflower: Effects on Generalist and Specialist Herbivores	Michael Montenero, Liza Holeski (Mentor), Richard Lindroth (Mentor)	I
150	Understanding Speech in Noise With Mismatched Frequency Information	Corey Stoelb, Ruth Litovsky (Mentor)	II
151	A Molecular Systems Biology Model of the Circadian Clock in <i>Drosophila</i>	Kate Scheuer, Laurence Loewe (Mentor)	II
152	Building a Quantitative Model of the Cholesterol Biosynthesis Pathway	Payeng Yang, Laurence Loewe (Mentor)	III
153	Investigating Dynamic Ice Formation and Hyporheic Exchange at the East Branch Peconic River	Matthew Weber, Steven Loheide (Mentor)	II
154	The Development and Implications of Organized Crime in Serbia	Kyle Farrell, Tomislav Longinovic (Mentor)	II
155	The Reemergence of Racial Inequality in Contemporary Cuba	Lachelle Jennings, Mara Loveman (Mentor)	I
156	Identification of Genes That Suppress the TSA1 Mutation in Low-Zinc Grown Yeast Cells	Michael Kubisiak, Colin Macdiarmid (Mentor)	III
157	Research in Communities	Michelle Gonzalez, Maricruz Magana (Mentor)	II
158	Lyotropic Liquid Crystalline Phase Behavior of Dodecylsuccinate in Aqueous Media	Kimberly Dinh, Mahesh Mahanthappa (Mentor)	II
159	Characterizing Phytoplankton and Parasitic Fungal Communities of the Columbia River Coastal Margin	Kristina Bartowitz, Michelle Maier (Mentor)	III
160	Gaming Conventions: Who Attends and Why	Jonathan Elmergreen, Crystle Martin (Mentor)	II
161	Does Pandemic Flu Deter From Other Conventional Viruses in Inducing Type I Interferon	Julia Thorson, Suresh Marulasiddappa (Mentor)	I
162	Assessing Alcohol Abuse Statistics Through Data Analysis of Social Networking Data	Jesse Gomer, Adam Maus (Mentor)	I
163	The Effects of Familial Hypercholesterolemia on Calcific Aortic Valve Disease	Ashley Quinn, Chloe McCoy (Mentor)	I

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165	Millimeter-Wave Rotational Spectrum of Pyridazine: a Molecule of Astrochemical Interest	Joshua Shutter, Brian Esselman, Brent Amberger, R. Claude Woods (Mentor), Robert McMahon (Mentor)	II
166	Pre-Surgical Planning for Tumor Patients: Effects of Task and Threshold on Language Lateralization	Matthew Andreoli, Veena Nair, Peng Yin, Mary Meyerand (Mentor)	III
167	Cancer Awareness: Agents of Change	Kevin King, Gurwattan Miranpuri (Mentor)	II
168	Role of Microglia Activation in Spinal Cord Injury Neuropathic Pain	Erin Lehman, Youhi Ghouse, Nayab Khan, Gurwattan Miranpuri (Mentor)	III
169	Role of NKCC1 and MMP2 in Neuropathic Pain Following Spinal Cord Injury	Jeanet Ugalde, Gurwattan Miranpuri (Mentor)	III
170	The Importance of Protein Residue Conformations Lead to Cation-PI Interaction in Protein-DNA Complex	Yuanhao Ding, Julie Mitchell (Mentor)	I
171	Healthy Texts, Healthy You?	Angela Davis, Megan Moreno (Mentor)	III
172	The Relationship of Stress, Anxiety, and Depression With Academic Achievement Among College Students	Jaimee Goldish, Megan Moreno (Mentor)	I
173	Comparison of Internet Distraction Among College Students With and Without ADHD	Natalie Goniou, Megan Moreno (Mentor)	III
174	The Influence of Facebook on Alcohol Consumption of College Freshmen	Lauren Kacvinsky, Megan Moreno (Mentor)	I
175	Twitter: a Viable Source for Health and News Information?	Sara Klunk, Megan Moreno (Mentor)	II
176	Facebook and the College Student: a Stress Creator Or Stress Reliever?	Shari Schoohs, Megan Moreno (Mentor)	I
177	Attitude Changes Toward Tobacco and Marijuana in Students' First Year of College	Mara Stewart, Megan Moreno (Mentor)	I
178	Implications of Body Image and Facebook	Leah Wachowski, Megan Moreno (Mentor)	II
179	Chemically Modifying Wood Flour to Increase Durability for Wood Plastic Composites	Angeline Juan, Lucas Moyer Horner (Mentor)	III
180	A Low-Phenylalanine Diet Improves Brain Mass and Neurotransmitters in Phenylketonuria Mice	Therese Breunig, Denise Ney (Mentor)	II
181	Photo Voice: Identifying the Need to Improve Water Safety in the Dominican Republic	Adam Weier, Denise Ney (Mentor)	I
182	The Use of a Bioreactor as a Teaching Tool	Abhishek Mehrotra, Eamon Bernardoni, Matthew Bollom, Hallie Kreitlow, Bradley Lindevig, Amit Nimunkar (Mentor)	III
183	Ammonia-Oxidizing Archaea in Drinking Water	Clara Chow, Daniel Noguera (Mentor)	I
184	Reducing Infant Mortality Rates in Uganda: a Postnatal Education Program at Iganga District Hospital	Michele Coleman, James Ntambi (Mentor)	I
185	Characterization of Mhc Class II DRB Transcripts in Macaques Using High Throughput Pyrosequencing	Jacob Clark, David O'Connor (Mentor)	I

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186	Determination of Genetic Interaction Between Fife and Candidate Proteins in <i>Drosophila Melanogaster</i>	Erin Tapper, Elizabeth Roeske, Kathaleen O'Connor-Giles (Mentor)	I
187	Effect of High Vitamin D Levels on the Adaptive Immune Response to TMEV Infection	Miranda Meyer-Zibolski, Julie Olson (Mentor)	II
188	Comparison of the Distribution of GDNF Using Two AAV Serotypes in the Striatum	Megan Clafin, Susan Osting (Mentor)	II
189	Relations Between Partners' Health Indicators and Dyadic Coping Among Young Adult Dating Couples	Amelia Cuarenta, Kristen Anderson, Emma Kosciolk, Eunjin Lee, Dana Nixon, Lauren Papp (Mentor)	III
190	Linkages Between Early Childhood Experiences and Young Adult Intimate Relationships	Brett Peters, Brittany Beispeil, Katie Kennedy, Lauren Papp (Mentor)	II
191	Defect-Free Single-Crystalline Sige Nanomembranes	Robin Kraidich, Deborah Paskiewicz (Mentor)	II
192	Gender Determination of Two-Toed Sloths (<i>Choloepus Hoffmanni</i>) With the SRY Gene	Cristina Vaughan, Jonathan Pauli (Mentor)	I
193	Fatty Alcohol Production in <i>Escherichia Coli</i> From Simple Sugars	Martin Schumacher, Brian Pflieger (Mentor)	II
194	The Medieval Hero Tale in Japanese Visual Culture	Stephen Zellmer, Quitman Phillips (Mentor)	I
195	Project Grow: Talking Together	Ashley Fittante, Cynthia Burnson, Julie Poehlmann (Mentor)	I
196	The Role of Fibronectin in Cellular Migration	Andrew Riching, Suzanne Ponik (Mentor)	I
197	Presurgical Planning With fMRI in Vasular Lesion Patients: Task and Statistical Threshold Effects	Tanvi Nadkarni, Vivek Prabhakaran (Mentor)	III
198	Gender and Accommodation	Sarah Saenz, Thomas Purnell (Mentor)	III
199	Ultrasound Shows Tongue Shapes Change for Same Vowels Across Different Speech Styles	Tanner Schrank, Thomas Purnell (Mentor)	III
200	Wisconsin Regional Variation in /Æ/ Production	Libby Siebrecht, Thomas Purnell (Mentor)	I
201	Effects of Nitrogen Concentration and Larval Density on Gypsy Moth (<i>Lymantria Dispar</i>) Cannibalism	Zachary Cannizzo, Kenneth Raffa (Mentor)	I
202	Exercise Stress in a Myosin Binding Protein C Knockout Model of Hypertrophic Cardiomyopathy	Alexander Spring, John Ralphe (Mentor)	I
203	Phonetic Phenomena in the Spanish of Heritage Speakers	Antonio Conchas, Rajiv Rao (Mentor)	II
204	Hand Hygiene & Infection Control Analysis	Kevin Dinh, Nasia Safdar (Mentor)	III
205	Hand Hygiene Observations	Larissa Ostfeld, Nasia Safdar (Mentor)	III
206	Stopping Infection With Hand Hygiene	Samty Xiong, Nasia Safdar (Mentor)	II
207	A Comparative Study of FC Gamma Receptors in <i>Homo Sapiens</i> , <i>Homo Neanderthalensis</i> , and the Denisova	Nicole Kalupa, Aaron Sams (Mentor)	II

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209	Impact of Logging on Fire Frequency: Circle Lily Lake, Wisconsin	Margaret Durow, Jennifer Schmitz (Mentor)	III
210	Brain Blood Flow in Patients With Metabolic Syndrome: Assessment of Impairment and Changes With Part	Anne Bolgert, William Schrage (Mentor)	III
211	Prostaglandin Formation Effects of Cerebral Blood Flow in Metabolic Syndrome	Keelin O'Neil, William Schrage (Mentor)	III
212	Effect of Climate Change on Tannin Levels in Aspen and Birch	Yamini Karandikar, Ezra Schwartzberg (Mentor)	I
213	Coast Redwood (<i>Sequoia Sempervirens</i>) and Its Polyploid Origin	Robel Kebede, Allison Scott (Mentor)	I
214	Changes You Can Make to Your Neighborhood	Grace Burkard, Laura Senier (Mentor)	II
215	Building Community in Southwest Madison	Ben Ruffolo, Laura Senier (Mentor)	III
216	The Influence of Proximity to Environmental Hazards on Perceived Risk: a Literature Review	Scott Andre, Dolores Severtson (Mentor)	I
217	Bicaudal-C: Regulator of Cell-Fate Decisions in Embryos and Adult Tissues	Andy Chung, Michael Sheets (Mentor)	III
218	The Homeland Project — Understanding the Dynamics of Nationalism	Malak Benslimane, Nadav Shelef (Mentor)	II
219	When Do Territorial Claims Change?	Alexander Milbrandt, Nadav Shelef (Mentor)	I
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232	Characterization of GNRH-GFP Cells	Misa Sato, Ei Terasawa-Grilley (Mentor)	I

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234	Thermal Resistivity Testing in Unsaturated Soil	Ray Wu, James Tinjum (Mentor)	III
235	Standard Growth Curve of HCMV Lacking MIR-US5-2 Will Explore the Reasons for Down Regulation of US7	Drew Gunderson, Rebecca Tirabassi (Mentor)	III
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237	Comparison of 2 Approaches to Genetic Counseling: Tailored Family-Centered & Usual Approach	Rabeesa Vanevenhoven-Shaheen, Audrey Tluczek (Mentor)	III
238	Identification of Small Molecule Inhibitors of Fibronectin Matrix Assembly	Ian Johnson, Bianca Tomasini-Johansson (Mentor)	II
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240	Polyubiquitin Formation Via Thiol-Ene Chemistry	Nicholas Sanchez, Ellen Valkevich (Mentor)	III
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243	A Developmental Analysis of Vowel Acoustics in Individuals With Down Syndrome	Katie Lester, Hourii Vorperian (Mentor)	II
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246	Land Use, Water Quality and Human Health in Rural Ecuador	Kirsten Rhude, William Klein, Lindsay Raab, Catherine Woodward (Mentor)	I
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Hottman, Molly	PS	III	VH	118	Lacey, Alexander	PS	III	VH	143	McGovern, Kathleen	PJ	I	VH	5
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Meyer-Zibolski, Miranda	PS	II	VH	187	Orduna, Gabriel	RT	I	FN	1	Riching, Andrew	PS	I	VH	196
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Miller, Joseph	PS	III	VH	9	Padron, Ian	RT	III	SW	3	Roeske, Elizabeth	PS	I	VH	186
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Nicholas, Alexandra	PS	II	VH	2	Raicu, Laura	PS	I	VH	1	Shullaw, Emily	AR		TG	
Nielsen, Briana	RT	III	FO	3	Ramos-Mercado, Jorge David	T	III	WI	4	Shultz, Jeanette	PS	II	VH	130
Nixon, Dana	PS	III	VH	189	Reddy, Kireeti	PS	I	VH	93	Shutter, Joshua	PS	II	VH	165
Novak, Victoria	AR		LG		Reiland, Hannah	T	I	LN-B	4	Siad, Naman	PS	I	VH	1
Nurse, Thiahera	PF	PW	VH		Rekoske, Brian	T	I	LN-B	5	Siebrecht, Libby	PS	I	VH	200
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Smith, Zachary	PS	II	VH	136
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Sterken, Joe	T	II	WI	3
Stewart, Mara	PS	I	VH	177
Stitgen, Jennifer	PS	III	VH	36
Stoelb, Corey	PS	II	VH	150
Stortz, Ethan	PS	I	VH	124
Strassman, Alex	T	II	WI	4
Strebe, Joslyn	PS	II	VH	122
Stromberg, Ashley	AR		TG	
Studnicka, Marta	PS	II	VH	81
Stutz, Robert	PS	I	VH	112
Sweeney, Casey	PS	III	VH	226
Swenson, Madeleine	PS	I	VH	75
Tapper, Erin	PS	I	VH	186
Taylor, Kathryn	PS	II	VH	236
Terwelp, Colin	RT	I	FN	3
Thao, Mai	PS	I	VH	77
Thao, Chou	RT	III	SW	6
Theisen, Jeffrey	PS	I	VH	128
Thimm, Terra	PS	III	VH	225
Thio, Charles	PS	I	VH	113
Thomas, Philip	PS	I	VH	69
Thompson, Andrew	AR		TG	
Thorson, Julia	PS	I	VH	161
Tiachunpun, Jitrapon	PS	III	VH	250
Tighe, Danny	PS	II	VH	239
Timmons, Jasmine	T	I	WI	6
Tolmatsky, Jamie	T	II	FQ	5
Tomczak, Brenna	PS	III	VH	121
Trevino-Dopatka, Sonia	RT	I	SC	6
Tsegyal, Tenzin	PS	III	VH	244
Tso, Chak Foon	PS	III	VH	229
Udomon, Iborro	PS	II	VH	39
Ugalde, Jeanet	PS	III	VH	169
Ugalde, Jeanet	T	III	LN-B	3
Uniacke, Paula	RT	I	FN	4

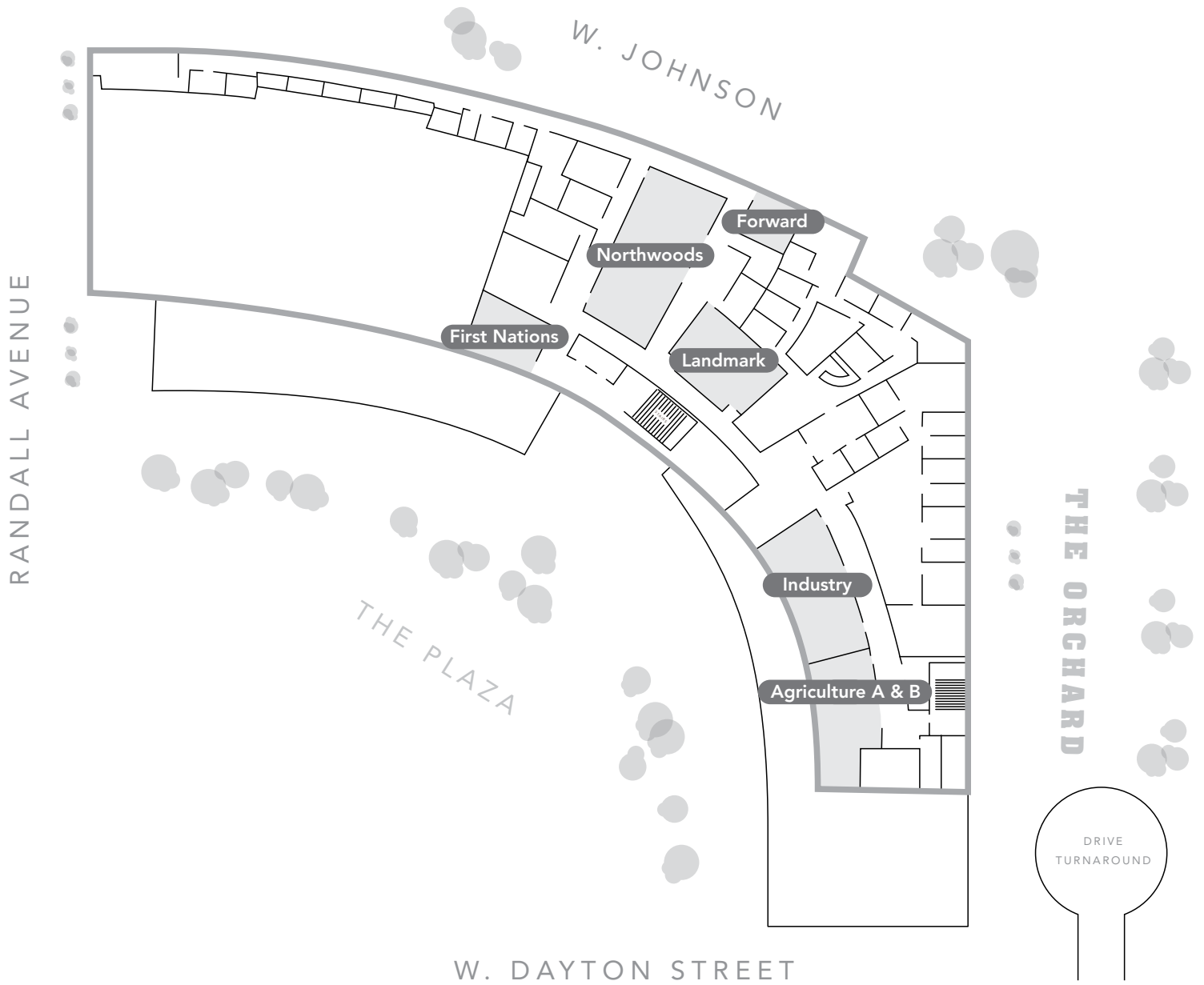
Last Name, First	Format	Time	Room	Order/ Poster#
Valadez, Ruby	T	III	LN-B	3
Van, Dylan	PS	I	VH	208
Van De Voort, Tyler	T	I	NW-B	5
VanBrocklin, Chris	PS	I	VH	17
Vanderweele, Chloe	T	II	FQ	3
Vanevenhoven-Shaheen, Rabeea	PS	III	VH	237
Vang, Khamsai	PS	III	VH	41
Vang, Lisa	T	III	WI	5
Vassar-Olsen, Erika	PS	III	VH	54
Vaughan, Cristina	PS	I	VH	192
Vey Jr., Stephen	PS	I	VH	18
Villanueva, Joshua	RT	I	FN	5
Villiard, Hope	T	II	WI	5
Violante, Sarah	PS	I	VH	129
Viozat, Savitri	PS	I	VH	62
Voelz, Kaitlyn	PS	I	VH	50
Wachowski, Leah	PS	II	VH	178
Wackett, Jordan	PS	I	VH	48
Wadzinski, Tyler	PS	II	VH	228
Walker, Alec	RT	III	FO	3
Walker-Cousins, Andrea	RT	III	SW	5
Wallin, Kelly	PS	I	VH	123
Wang, Junjue	PS	III	VH	116
Warneke, Christopher	T	I	TR	5
Webb, Victoria	PS	III	VH	114
Weber, Morgan	PS	I	VH	233
Weber, Matthew	PS	II	VH	153
Webster, Christopher	RT	III	SC	5
Weier, Adam	PS	I	VH	181
Whillock, Amy	T	I	FQ	5
White, Blaire	PF	PW	VH	
Wiessner, Brynn	T	I	TR	6
Williquette, Ella	AR		TG	
Willoughby, Lauren	PS	III	VH	11
Wimberley, Emma	AR		TG	
Wojtaszek, Michelle	T	III	TR	5
Wolf, Wendy	RT	III	FO	5
Woolworth, Reid	RT	III	FO	3
Wright, Adam	T	I	NW-B	3
Wu, Yufan	PS	I	VH	56
Wu, Ray	PS	III	VH	234
Xia, Xue	T	III	NW-B	5
Xiong, Ally	PS	II	VH	148
Xiong, Samty	PS	II	VH	206
Yang, Mafia	AR		TG	
Yang, Payeng	PS	III	VH	152
Yang, KaHoua	PS	I	VH	245

Last Name, First	Format	Time	Room	Order/ Poster#
Yin, Peng	PS	III	VH	166
Yoo, Sujin	PS	III	VH	145
Young, Riley	RT	II	SC	3
Yun, Hyun Gi	PS	II	VH	80
Zahirovic, Arnel	RT	I	GV	5
Zeitler, Bethany	PS	I	VH	63
Zellmer, Stephen	PS	I	VH	194
Zhai, Sheldon	PS	II	VH	94
Zhu, Kexian	T	III	LN-B	5
Ziegler, Matthew	T	I	NW-B	4
Zik, Justin	PS	II	VH	70
Zillmer, Krista	PS	II	VH	65
Zimmerman, Ginelle	PS	II	VH	72
Ziobro, Ross	PS	III	VH	47
Zitzlspurger, Chelsie	PJ	I	VH	7

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

Wednesday, April 18, 2012

5:00 p.m. – 6:00 p.m.

Union South – Varsity Hall

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Paul M. DeLuca, Jr.,

Provost and Vice Chancellor for Academic Affairs

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Ideas to Excellence, held each spring, showcases the academic and creative work of our undergraduate students. Multiple venues will house events — including exhibitions, poster sessions, presentations and performances — that celebrate excellence in student work.

<http://learning.wisc.edu/ideas>