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Student Research Colloquium Proceedings 2016

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PROCEEDINGS



STUDENT RESEARCH **COLLOQUIUM**

2016

Tuesday, April 19, 2016

Atwood Memorial Center



ST. CLOUD STATE
U N I V E R S I T Y

19TH Annual Student Research Colloquium

Hundreds of students present their research or creative projects during each year's Student Research Colloquium. This signature SCSU event encourages students to conduct authentic research and to contribute to the body of knowledge in their disciplines. Students engage in activities that enhance their success and learning, and showcase their scholarship, creative works, and innovative thinking across all disciplines.

Students may participate in a variety of ways: exhibit or perform a creative work, present a paper they have written/project they have completed, display a poster presentation of their work, submit a formal paper for the competition, or attend sessions as an audience member.

In addition to gaining experience researching and presenting, students are able to further understanding in their field of study, collaborate with a faculty mentor, and receive recognition for their work.

Presentations and Competitions

There are four presentation formats in which students can choose to participate, and students may also opt-in to a competition in these categories. The categories include performances and creative works similar to activities at a professional fine arts conference or festival; paper/oral presentations giving students 20 minutes to discuss their work including time for Q&A; and poster presentations in which presenters display posters of their work. Students who opt-in to the competition have their presentations evaluated by a panel of judges, who evaluate student projects based on a combination of content, presentation format effectiveness, and ability to answer questions.

The formal paper presentation category requires students to opt-in to the competition; students that opt-in to this competition submit formal papers in early spring, and are evaluated by a panel of judges to be selected for presentation of their work at the Colloquium. Selected formal paper authors present their work before a panel of judges on the day of the event. Students are evaluated on the following criteria: background, thesis, methodology, implications, organization, student's speaking skills, visual aids, effectiveness, and the student's ability to answer questions.

SESSION TIMES AND LOCATIONS

Time		Session Type	Location
8:00 AM	- 9:20 AM	Paper/Oral Session	Alumni
8:00 AM	- 9:20 AM	Paper/Oral Competition 1	Glacier South
8:00 AM	- 9:20 AM	Paper/Oral Session	Voyageurs North
8:00 AM	- 9:20 AM	Paper/Oral Session	Voyageurs South
8:30 AM	- 10:00 AM	Poster Session 1	Ballroom
9:30 AM	- 10:50 AM	Paper/Oral Session	Alumni
9:30 AM	- 11:30 AM	Formal Paper Competition	Cascade
9:30 AM	- 10:50 AM	Paper/Oral Competition 2	Glacier North
9:30 AM	- 10:50 AM	Paper/Oral Competition 3	Glacier South
9:30 AM	- 10:50 AM	Paper/Oral Session	Voyageurs North
9:30 AM	- 10:50 AM	Paper/Oral Session	Voyageurs South
10:30 AM	- 11:50 AM	Performances/Creative Works Session	Theatre
11:00 AM	- 12:20 PM	Paper/Oral Session	Alumni
11:00 AM	- 12:30 PM	Poster Session 2	Ballroom
11:00 AM	- 12:20 PM	Paper/Oral Competition 4	Glacier North
11:00 AM	- 12:20 PM	Paper/Oral Competition 5	Glacier South
11:00 AM	- 12:20 PM	Paper/Oral Session	Voyageurs North
11:00 AM	- 12:20 PM	Paper/Oral Session	Voyageurs South
12:30 PM	- 1:50 PM	Paper/Oral Session	Alumni
12:30 PM	- 1:50 PM	Paper/Oral Session	Cascade
12:30 PM	- 1:50 PM	Paper/Oral Competition 6	Glacier North
12:30 PM	- 1:50 PM	Paper/Oral Competition 7	Glacier South
12:30 PM	- 1:50 PM	Paper/Oral Session	Voyageurs North
12:30 PM	- 1:50 PM	Paper/Oral Session	Voyageurs South
1:15 PM	- 1:55 PM	Performances/Creative Works Session	Theatre
1:30 PM	- 3:00 PM	Poster Session 3	Ballroom
2:00 PM	- 3:20 PM	Paper/Oral Session	Alumni
2:00 PM	- 3:20 PM	Paper/Oral Session	Glacier North
2:00 PM	- 3:20 PM	Paper/Oral Competition 8	Glacier South
2:00 PM	- 3:30 PM	Performances/Creative Works Session	Theatre
2:00 PM	- 3:20 PM	Paper/Oral Session	Voyageurs North
2:00 PM	- 3:20 PM	Paper/Oral Session	Voyageurs South
4:30 PM	- 6:00 PM	Closing Ceremony	Cascade

SESSION SCHEDULE AND PRESENTATION TIMES

8:00 – 9:20 AM	Paper/Oral Session	Alumni Room
	Moderator: Jennifer Howland, Research and Sponsored Programs	
8:00 AM	Abrams, Deborah	Interaction Effects of Medicare on the Relationship between Family Type and Formal Home Health Care Service Use
8:20 AM	Vang, Joe; Chanthalangsy, Jeffrey; Balle, Eliakim	Pool Valve Prototype
8:40 AM	Bauman, Rebecca	Seeing and Using Visual Language
9:00 AM	Martinson, Mara; Rahman, Mohammad	Autoethnography and Observational Study of Writing Center Online Tutorials
8:00 – 9:20 AM	Paper/Oral Competition 1	Glacier South
	Moderator: Alexander Polacco, Mangement	
8:00 AM	Byron, Kandice	High and Low Frequency Vocabulary Use and Social Registers
8:20 AM	Dai, Weiyi; Khadge, Suchit; Shoaib, Ahmed	Wireless Health Monitoring System
8:40 AM	Chapman, Alicia	Foster care students and secondary education
8:00 – 9:20 AM	Paper/Oral Session	Voyageurs North
	Moderator: David Robinson, Mathematics and Statistics	
8:00 AM	Melendez, Evelyn; Lanoue, John; Dattalo, Ashley; Kaneza, Kelly	Agent Analysis
8:20 AM	Strange, Brandon; Grant, Jason; Sowada, Sebastian; Duncan, Blake	Detention Data: A Statewide County Analysis
8:40 AM	Southard, Amy; Satchivi, Tatiana; Adhikari, Himal	Recidivism Over Time for Different Conviction Levels
9:00 AM	Peschl, Sterling; Fogarty, Gabe; Stram, Lyndsey; Cai, Wenting	Predicting Violation of Probation
8:00 – 9:20 AM	Paper/Oral Session	Voyageurs South
	Moderator: Stephen Phillion, Sociology	
8:00 AM	Manthrige, Chamira; Tran, Thanh; Lambert, Timothy; Zhang, YaNan	Electrostatic Spray Gun
8:20 AM	Hall, Kristina; Yusuf, Mahmoud; Yimam, Menelik	Electrical Impedance Tomography Device for Soft Tissue Imaging
8:40 AM	Linn, Trista	Size Matters: An Examination of Stimulus Magnitude with Respect to Reinforcer Efficacy
9:00 AM	Bourgoin, Ben	Investigations into Trans People, Language, and Grammatical Gender

SESSION SCHEDULE AND PRESENTATION TIMES

8:30 – 10:00 AM Poster Session 1

Ballroom

Easel #

1	Swenson, Elizabeth; Bates, Maria	Gender, Emotion, and Perception of Guilt 10:00 AM 8:30 AM
2	Donahue, Laura; Jacobs, Kelly	Invasive Species Management
3	Schwieters, Rita; Hislop, Travis	Four Wave Mixing to Characterize Solid State Materials
4	Rogers, Michael	Photodynamics of Organic Based Solar Cell Materials Studied by Pump-probe Transient Absorption Spectroscopy
5	Barthel, Adam	Mill Cities: The Geography of Lumber Mills as a Precursor of European American Settlement in Minnesota
6	Debner, Jack	North by Northstar: An Analysis of Commuting Students at St. Cloud State University
7	Hasbay, Utku	Exposure of Fathead Minnows to Complex Urban Mixture
8	Stanley, William	Predator Avoidance Behavior of Larval Fathead Minnows Exposed to a Complex Urban Mixture
9	Coffman, Megan; Liebe, Ellen	Interprofessional Curricular Goals: Student Perspectives & Faculty Outcomes
10	Martinez, Mayra	Developing Literacy Skills in Mono- and Bilingual Children through Shared Book Reading
11	Crawford, Christopher	Plasma Deposition of Diamond-Like Carbon
12	Baxter, Tyler	Laser Ablation Material Capture
13	Schellberg, Grant	Fresnel Lens Oven
14	Bruner, Kylie; Schmit, Taylor	Effects of Bisphenol A on the Function of Immune T-cells in an Experimental Type 1 Diabetes Mouse Model
15	Tudor, Gabriel; Rogan, Shana; Johnson, Cameron	Characterization of Immune Cells Post Bisphenol A (BPA) Exposure in C57BL/6J Mouse Model
16	Bisping, Ashley; Byers, Amanda; Blomker, Elizabeth	The Effect of BPA Exposure on Insulinitis Lesion in a C57BL/6 Mouse Model of Autoimmune Diabetes
17	Conaway, Amanda	Hydraulic and Hydrologic Models of the Sauk River
18	Wyers, Jennifer	What is the Sedimentary Context for Bison Bone Discovery at Lake Victoria, Minnesota?
19	Shelton, Jeff; Heldberg, Heidi	What does sediment composition in core VICSURK 1A from Lake Victoria, MN tell us about lake sedimentation history?
20	Naill, Wyatt	Does a Wetland Hinder or Improve the Recharge Rate of a Surficial Aquifer?
21	Runde, Alex	Tracking Sediment Composition and Transport in the Sauk River Through Lake Sediment Cores
22	Olson, Emily	Evolution of Fangs across the Marine Lizardfishes (Teleostei: Aulopiformes)
23	Beals, Jennifer	The evolution of motility in diatoms

SESSION SCHEDULE AND PRESENTATION TIMES

24	Labor, Saby	Queer Midlevel Managers of Color in Student Affairs: Lived Experiences of Support and Resilience
25	Ahmadi, Ghulam Yahya	A Comparative Analysis of Higher Learning Commission (HLC) and Quality Assurance and Accreditation Directorate (QAAD)
26	Hennagir, Seth	Charge Carrier Mobility Investigation in Oligocene Semiconductors
27	Bennett, Rose	Benedictine Monasteries and Facilitates use change in france
28	Zerfas, Hanna	Prevalence and Proportionality of ELL Students in MN Special Education
29	Robinson, Joshua	Courting Behavior of Male Fathead Minnows in an Urban Mixture
30	Koumaglo, Syntyche; Durant, Isaac; Perez, Jesus	Power Generating Bicycle Trainer
31	Mertz, Grace	Stress Patterns on Homographic Words
32	Abat, Martina	Double Coda Devoicing in Western South Slavic Speakers' Accented English
33	Tyler, Schweisthal; Lachner, Michael; Mutai, Martin	Moon Tracking Telescope
34	Lepp, Jonathan	Multispectral Diode Laser
35	Gilyard, Dustin	Laser Plasma Generation for a Thruster
36	Ryberg, Cody	Advising the Inevitably Suspended Student
37	Sitter, Natalie	Practicum Experience: Campus Recreation and Sports Facilities
38	Oliveira, Alfredo	Providing Safe Spaces for All
39	Schrubbe, Gordon	Sophomore Survival
40	Zeman, Adia	Facilitating Student Developed Sexual Assault Initiatives: A Practicum in Higher Education Administration
41	Jacquemart, Lea	Student Affairs Communication: leveraging Google and virtual resources
42	Lindsay, Caitlin	Accused Student Advisors
43	Anderson, Sarah; McClung, Julia	The Effect of "Baby Sign" on Early Language Development for "At Risk" Populations
44	McClung, Julia; Siemon, Ann	Constraint Induced Auditory Training
45	Roegner, Lucia	Constraint-Induced Auditory Therapy and Cognitive-Linguistic Therapy in Aphasia: A Single Case Study
46	Reynolds, John	An Examination of the Dakhóta Bark House
47	Horner, Amanda; Anderman, Kelsey; Anderson, Shelby; Duncan, Chelsey; Johnson, Kelsey; Maples, Caitlin;	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment

SESSION SCHEDULE AND PRESENTATION TIMES

	Shumaker, Jennifer; Stine, Sarah; Wuollet, Kristina	
48	Henningsen, Macy; Athman, Jenna; Hart, Erin; Kingston, Brittney; Loop, Emily; Monson, Heide; Prellwitz, Bryce; Traut, Eric; Ahrens, Brittany	Kandiyohi County Public Health
49	Protolipac, Amanda; Bergstrom, Jill; Kessler, Karen; Merawi, Selam; Meyman, Sami; Montag, Taylor; Osborn, Megan; Tillman, Mazie; Vuong, Nghi; Yager-DeAustin, Kim	Stearns County Healthy Families of America Client Satisfaction Survey
50	Burnett, Casey; Pool, James; Mattson, Brett	A Study of PTSD and Levels of Stress among College Students at St.Cloud State University
51	Mathison, Emma	Examining Subjective and Objective Stress Measurement: A Proposal for a Moderated Model to Predict Burnout
52	Neuman, Nick	City Planning and Administration in a Minnesota City
53	Blee, John	The Impact of Program Intervention on High School Graduation For Underrepresented Students
54	Stelten, Henry; Knudsen, Cate; Ray, Andrew	Lake Victoria Sediment Core VICSURK-4A Evidence for Lake Sedimentation History
55	Rothstein, Cory	A Case Study of the February 2, 2015 Minnesota Snowstorm
56	Picha, Chelsea	Limitations of the Enhanced Fujita Scale in Rural Minnesota
57	Kolpack, Brad	Did the Height of the Black Hills Affect Snow Totals from the Oct. 2013 Blizzard?
58	Schaa, Brandon	Long Term Effects of Using Learning Assistants
59	Hengel, Michelle	Geography of the World Heritage List: Universal/Internationalism vs. Nationalism
60	Dempsey, Joseph	Living Learning Community Learning Outcomes Assessment
61	DeChene, Nicholas; Gotzinger, Brittany; Vogel, Amanda	Student-Led and Live Supervised Group Experience for Leadership Development
62	Jacobs, Abby	Social Statistics Research Project
63	Biswas, Sutapa	Testing Non-Linear & Fractional Order Circuit
64	Keh, Mario; Xiong, Chai; Khalil, Mohammed	Electromagnetic Levitation System
65	Gustafson, Jacob; Williams, Joe; Nazzaro, Ryan; Steven, Yang	Virtuoso

9:30 – 10:50 AM Paper/Oral Session

Moderator: Sandrine Zerbib, Sociology

9:30 AM Oluwagbemi, Oluwatobi; Kalk,
Megan; Abdullah, Josefina;
Kabore, Landry; Grewatz,
Michael; Richardson, Chrishonda;

Alumni Room

Pulse on SCSU students: Spring survey report

SESSION SCHEDULE AND PRESENTATION TIMES

Matson, Jordee; Stay, Karen;
Filiyaro, Cedric

9:30 – 11:30 AM Formal Paper Competition Cascade Room

Moderator: Kelly Branam Macauley, Anthropology

- | | | |
|----------|-----------------------|---|
| 9:30 AM | Thinamany, Sinduja | Bisphenol A and Type 1 Diabetes; A Global Concern |
| 10:00 AM | Balsemo, Brianna | Analysis of Lithic Tools and Points at the Little Elk River Mission Site |
| 10:30 AM | Oluwagbemi, Oluwatobi | Politics in Nigeria |
| 11:00 AM | Dahlberg, Kaitlen | A Method to Study Simulated Gambling Under the Same Conditions in Which Problem Gamblers Gamble |

9:30 – 10:50 AM Paper/Oral Competition 2 Glacier North

Moderator: Melanie Guentzel, School of Graduate Studies

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|----------|---|--|
| 9:30 AM | Wright, Briana | Business Consulting |
| 9:50 AM | Harri-Dennis, Elizabeth | Sign-Tracking in the Madagascar Hissing Cockroach |
| 10:10 AM | Rabbitt, Shaela | Onward Christian Soldiers: Religion and the Battlefield Strategy of Thomas “Stonewall” Jackson |
| 10:30 AM | Seiberlich, Daniel; Fuchs, Dustin; Nemeč, Gregg | Brain Shunt Redesign |

9:30 – 10:50 AM Paper/Oral Competition 3 Glacier South

Moderator: Michael Schwartz, English

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|----------|-------------------|--|
| 9:30 AM | Martin, Rene | Evolution of Jaw Length and Dentition Variation in Deep-sea Lanternfishes (Teleostei: Myctophiformes) |
| 9:50 AM | Goedeke, Amanda | USS Essex: A Historical and Time Geography |
| 10:10 AM | Pintok, Molly Lou | Generating Discourses: Framing Visions of Landscape Concerning Windfarm Implementation in Wales, UK and Minnesota, USA |

9:30 – 10:50 AM Paper/Oral Session Voyageurs North

Moderator: John Madden, English

- | | | |
|----------|--|---|
| 9:30 AM | Guntaka, Meera Nikhil Chandra | Database Security In Financial Services Using Security Socket Layer & Transparent Data Encryption |
| 9:50 AM | Hillukka, Jared; Downs, Dakota; Kariniemi, Aaron | Graco Electrostatic Sprayer |
| 10:10 AM | Hermerding, Joshua | A Comparison of Academic Words and Technical Vocabulary Understanding |
| 10:30 AM | Simon, Akim | What are the strategies learners use when they are learning new words (nouns vs. verbs)? |

SESSION SCHEDULE AND PRESENTATION TIMES

9:30 – 10:50 AM Paper/Oral Session

Voyageurs South

Moderator: Mark Schmidt, Information Systems

9:30 AM	Gandi, Bhavika	Web Hacking
9:45 AM	Salner, Ryan	Forensic Case Examination
10:00 AM	Dasari, Sri Rama Chandra Charan Tej; Ouedraogo, Raissa	The Cold Blooded Murder
10:15 AM	Basnayake, Kasun; Rijal, Nirajan	Mobile Tracking and Spying
10:30 AM	Han, Yutong	Digital Forensics Case

10:30 – 11:15 AM Performances/Creative Works Session Theatre

Moderator: Stephen Janasie, College of Science and Engineering

10:30 AM	Gahm, Noah	Glory Box by Tim Miller: A Drama Interpretation
10:50 AM	Gahm, Noah	Mick Harte Was Here by Barbara Park: A Prose Interpretation

11:00 AM – 12:20 PM Paper/Oral Session

Alumni Room

Moderator: Seth Taft, Anthropology

11:00 AM	Plachejo, Álvaro	Ideas Worth Spreading... for Who? Exploring TED's Neoliberal Discourse
11:20 AM	Puch, Carly	Men in the Violence Against Women Movement: How they got there, where they fit, and how to move forward
11:40 AM	Westphal, Jacob	Lepidium Sativum Supplementation, Growth and Organ Development in Male Sprague-Dawley Rats
12:00 PM	Vogl, Summer	Progressive Era Teaching

11:00 AM – 12:30 PM Poster Session 2

Ballroom

Easel

1	Chen, Chien-chia	Fluorescence Detection of Triclosan Using Enhanced Photoactivated Luminescence(EPL)
2	De Silva, Samera	Complementary and Alternative Medicine Utilization in the Kingdom of Bahrain - A Review
3	Ponce, Valerie	Acute and Chronic Effects of the Lepidium sativum Seed Intake and Kidney Function in Rats
4	Afolabi, Mariam	The Effect of Methanolic Extract of Wonderful Kola (Buchholzia coriacea) seeds on GnRH, LH, and FSH Secretion in Ovariectomized Sprague Dawley Rats- A Pilot Study
5	Uzochukwu, Chimaobim	Emerging And Projected Uses Of Herbal Remedies In The Developing World - A Case Study Of Nigeria
6	Khan, Erum	Impact of Lepidium sativum dietary feeding on Testicular structure and Indices of Spermatogenesis in Sprague-Dawley rats
7	Simon, Taylor; Larson, Amanda	Assessing Academic Risk with Mapworks

SESSION SCHEDULE AND PRESENTATION TIMES

8	Erickson, Nicholas; Ryan, Paul	Higher Level Math Effects on Student Success in Economics
9	Patel, Sawankumar	Spectroscopic Characterization and Relaxation Studies of Leuco Dyes Dispersed in Polymer Matrix
10	Hansen, Jared; Amenu, Anania; Hirdler, Daniel; Aryal, Sumedha	Performance of modified zeolites for the treatment of nitrate-contaminated solutions
11	Varas, Matthew; Jones, Donnell; Mertz, Rachel	Myoelectric Prosthetic Hand
12	Xu, Cheng	PAPR Reduction in General OFDM System
13	Im, Hyebin	What English Learners Shows Reaction When They Face Unfamiliar Words?
14	Carley, Samantha	Cultural Background and Vocabulary Acquisition
15	Hasbay, Utku; Thorson, Justin; Korn, Victoria; Ebinger, Eryn I.	BPA increases incidence of Type 1 Diabetes in C57Bl/6J Mouse Model
16	McDonald, Jessica	Influence of Lake-to-Lake Connections on Lake-Effect Snow Amounts in the Lake Michigan Snowbelt
17	Conaway, Amanda; Lor, Mena	Analysis of Sauk Lake Sediment Core 2A for Interpretation of Sedimentation History in the Sauk River Watershed
18	Barthel, Joel	Feasibility of the Kinematic Wave Method for Computing the Hydrologic Properties of Agriculturally-Dominated Watersheds
19	Schaupp, Harmony; Pydynkowski, James	Analysis of Sauk Lake Sediment Core 1A and Sedimentation History
20	Heldberg, Heidi	The Cement Mixer Experiment: How rapidly will igneous rocks be reduced in size during stream transport?
21	Toe, Dokonle Fabrice; Hellweg, Andy; Khatib, Mohammad	Home Security System
22	Bajracharya, Timila	United States Median Annual Household Income and Poverty Percentage, 2014
23	Seifu, Kirubel	UAV Flight Control Using Brain Signal : A Brain Computer Interface (BCI) approach utilizing a cloud computing infrastructure
24	Christiansen, Julianne	Optimization of Automated Single-Drop Microextraction for Reproducible Analysis of Part-Per-Billion Concentrations
25	Kajewski, Stefanie Michelle	Compounds in bell peppers that could potentially decrease glucose levels
26	Hislop, Travis	Synthesis of 9H-carbazole-1,2,7,8-tetracarbonitrile (C-TCN) for ribbon polymer formation
27	Biswas, Sutapa	Magnetic Mirror & Plasma Trapping
28	Schwieters, Rita	5nm Gold Nanoparticle Enthalpy of Dissolution
29	Schwieters, Rita; Kazzaz, Suhaib; Strande, Jennifer; Kolemale, Shukri; Ross, Paige	Detoxification of heavy metals by modified zeolites

SESSION SCHEDULE AND PRESENTATION TIMES

30	Watson, Joe	Examination of sleep deprivation and its impact on susceptibility to false memory
31	Wood, Allison	Social Relationships, Disability Identity, and Quality of Life
32	Gilyard, Dustin	Pulsed Plasma Thruster
33	Muench, William	Fiber Optic Detection of Plasmas Within a Vacuum Environment
34	Jensch, Rebecca	The Effects of Various Sulfamethoxazole Concentrations on <i>Plesiomonas shigelloides</i>
35	Dick, Kaitlin; Yang, Matthew; Pederson, Michael; Stein, Megan; Sui, Alice; Weyer, Jenifer; Xiong, Ka Zoua	Isolation of Antimicrobial Compounds from Bacteria
36	Cash, Brock	Using PCR to Amplify and Isolate Inserts from a <i>Toxoplasma gondii</i> cDNA Library
37	Ellis, Samuel	Functional Complementation of the Histidine Biosynthetic Pathway in <i>Thiomicrospira crunigena</i>
38	Gordon, Joshua	Annotation of the Histidine Biosynthetic Pathway of <i>Vibrio fisheri</i>
39	Alarcon, Ruth	What Strategies do Students Use to Learn Academic Vocabulary? Are They Effective?
40	Eischens, Peter	Serving Consumers Who Are LGBTTTQQIIAA+
41	Nipp, Alex; Bowler, Ryan; Thao, Victor	Fabrication of Instrumented Boulders for Field Analysis of Stream Flow
42	Kruger, Matthew; Nipp, Alex	Impact of Water Drawdown on Shoreline Vegetation.
43	McIntire, Natalie	Chemotherapeutic Agents from Natural Product Templates: The Design and Synthesis of a Novel Indanone Analogue
44	Rodness, Inga	Health Partners Wellness Internship
45	Mettling, Jenae	Community Health Internship Experience
46	Haase, Katrina	Internship Highlights
47	Holgate, Breana	My Internship With March of Dimes
48	Valdez, Crystal	BLEND
49	Considine, Rose	Goodhue County Health and Human Services
50	Sunstrom, Samantha	Granite Equity Internship
51	Richter, Brittany	Internship with Stearns County Public Health
52	Johnson, Virginia	Light the Legacy
53	Antonich, Lauren	Community Health Internship at the YMCA
54	Kangas, Jana	Riverwood Healthcare Wellness
55	Theisen, Katelyn	Community Health Internship Display
56	Everson, Sarah	Internship

SESSION SCHEDULE AND PRESENTATION TIMES

57	Frank, Jeffrey	Disaster Preparedness
58	Rollo, Taylor	St. Cloud State Athletics Intern
59	Franks, Kelly	Internship Presentation
60	Singewald, Blake	Internship Presentation
61	Rohr, Zach	IFA internship experience
62	LeMay, Victoria	Contributing Parameters of the Upper Midwest Severe Weather Outbreak, 17 June 2010
63	Flemke, Jason	Polarimetric Radar Detection of the Melting Layer using X- and S-band Frequencies
64	Burski, Danielle	Stress Induced Mate Choice Copying in Domestic Guppies
65	Aho, Kathi	Type Face Creation
66	McDowell, Dillon	Seeing and Using Visual Language
67	Ismayilova, Urshana	Seeing and Using Visual Language
68	Yang, Lisa	Seeing and Using Visual Language
69	Nakarmi, Jashmin	Art and Design by Jashmin Nakarmi
70	Retzer, Chris; Smith, Adam; Lindquist, BrieAnna	Supernova Symphony
71	Ault, Anna; LaPoint, Bailey; Wang, Tim	Pathway into Darkness

11:00 AM – 12:20 PM Paper/Oral Competition 4 Glacier North

Moderator: Christine Jazwinski, Psychology

11:00 AM	Cox, Megan	Modulation of Estrogenic Effects via Temperature on Two Life Stages of Fathead Minnow
11:20 AM	Bertram, Riley	Waterfall-Climbing Gobies; The Variation in Climbing Techniques
11:40 AM	Robinson, Madeline	National Incident Management System helps in reducing communication related problems

11:00 AM – 12:20 PM Paper/Oral Competition 5 Glacier South

Moderator: Louise Millis, Biology

11:00 AM	Hirlekar, Neha; Issa, Mofeed; Dutta, Sujata; Mangolia, Anil	Layout Improvement at a Medical Device Refurbishment Business
11:20 AM	Rex, Theodore	Place Politics in the Creation of the Boundary Waters Canoe Area Wilderness
11:40 AM	Witthuhn, Jeffrey	{0,1}-Matrix-Vector Product Computations by Exploiting a Difference Method

SESSION SCHEDULE AND PRESENTATION TIMES

11:00 AM – 12:20 PM Paper/Oral Session

Voyageurs North

Moderator: John Madden, English

11:00 AM	Julius, William	High Voltage Electric Modification of Optical Properties of a Metal Film
11:20 AM	Iskandar, Edward	Feasibility Study on Navigation and Obstacle Avoidance for Drones
11:40 AM	Wegener, Madilyne; Bayerl, Raechell; Bushinger, Nicholas; Heo, Nayoung; Maalis, Nicole; Linhoff, Jessica; Malecek, Krystal; Marshall, George; Cherdnet, Dyrat; Bennis, Capree; Mire, Bayden; Yang, Alexander; Bako, Adama; BioSawe, Ansai	SOC 303 - SCSU spring survey highlights

11:00 AM – 12:20 PM Paper/Oral Session

Voyageurs South

Moderator: Mark Schmidt, Information Systems

11:00 AM	Khadka, Elina; Tamang, Ritu	Solving a Mystery of a Missing Girl
11:15 AM	Jha, Ashwini	Digital Forensic Investigation
11:30 AM	Munsch, Jon	IA 681 - Digital Forensics Case Study
11:45 AM	Howe, Christopher; Aashika, Khadka	Hard Drive Analysis
12:00 PM	Xiong, Houa	Steganography in criminal activity

12:30 – 1:50 PM Paper/Oral Session

Alumni

Moderator: Pamela Cesnik, Research and Sponsored Programs

12:30 PM	Wan, Yijing; Choi, Eunhee	Improving the Efficiency of Production Process at Subway
12:50 PM	Nedunuri, Anuarg; Srimattirumala, Saranya; Kancharla, Arjun; Yaga, Kranthi; Tadepalli, Alankrutha	Implementing an Inventory Management Solution at a Local Restaurant
1:10 PM	Wang, Lina	Chronic Exposure of Fathead Minnows to a Complex Urban Mixture
1:30 PM	Notch, Jennifer; Blomker, Jacquelin	Histological Effects of Temperature and Estrogenic Exposure on Adult Fathead Minnows

12:30 – 1:50 PM Paper/Oral Session

Cascade Room

Moderator: Lynn MacDonald, Economics

12:30 PM	Ergen, Paul	Occupation, Collaboration, and Resistance in Vichy France: an Examination of Trauma and the Evolution of Post-War Memory in France
12:50 PM	Noble, Kristi	Development of a Model to Predict Willingness to Disclose a Disability

SESSION SCHEDULE AND PRESENTATION TIMES

1:10 PM	Carter, Zac	Determinants of Police Expenditures
1:30 PM	Kunkel, Anthony; Finazzo, Daniel	Quantum-Mechanical Treatment of Hydrogen Ion Dynamics in Carbon Nanotubes

12:30 – 1:50 PM Paper/Oral Competition 6 Glacier North

Moderator: John Sinko, Physics and Astronomy

12:30 PM	Onwubuya, Sennami	The Divided Blacks; A conceptual study on understanding the ideologies that create division among African, African American, and Black American students on the St. Cloud State campus
12:50 PM	Oluwagbemi, Oluwatobi	The Effects of Stress on International Students.
1:10 PM	Heinicke, Annaliese	Of Moose and Men: A Geographical Synthesis Towards Understanding the Declining Moose Population in Minnesota
1:30 PM	Paul, Robbie	War, Famine, Malnutrition, and Suicide in the Global Economy: An Historical Case Study in Capital Genocide

12:30 – 1:50 PM Paper/Oral Competition 7 Glacier South

Moderator: Jennifer Howland, Research and Sponsored Programs

12:30 PM	Zilberg, Steven	Why Muslim Youth Are Joining ISIS?
12:50 PM	Zwack, Heidi Linnea	Antecedents to Prostitution Among Women in a Small Midwestern City
1:10 PM	Morgan, Mike	PAPR Reduction with Selected Mapping k-hot Encoding of SI Index
1:30 PM	Kim, Sunghee; Shankar, Sruthi; Vang, Duha	Can Flatworms be used as Behavioral Screens for Potential Anti-Epileptic Drugs?

12:30 – 1:50 PM Paper/Oral Session Voyageurs North

Moderator: Mitch Bender, Environmental and Technological Studies

12:30 PM	Meagher, Jennifer	Teachers' Perspectives on the State of Writing in High School English Classrooms
12:50 PM	Ndow, Lamin; Chung, Eu Sheng; Blue, Jeremiah	Design of a Mechanism Analysis Platform for the ISELF Robotics Laboratory and Industrial Motor Control Workstations for the ISELF Controls and Sensors Laboratory
1:10 PM	Spike, Nathan; Agalawatte, Harinda; Dangol, Pravin	Blockage Prevention and Detection in an Implantable Cerebral Shunt for the Treatment of Hydrocephalus
1:30 PM	Wolters, Felicia	Gender, Space and Empowerment of Women Hunters in Minnesota

12:30 – 1:50 PM Paper/Oral Session Voyageurs South

Moderator: Mark Schmidt, Information Systems

12:30 PM	Hafing, Donald	The Smart Killer
12:45 PM	Kamal, Parves; Alam, Sheik	Corporate Espionage

SESSION SCHEDULE AND PRESENTATION TIMES

1:00 PM	Thottempudi, Anusha; Meneni, Shravani	Fictitious criminal case
1:15 PM	Vidigal, Gaudencio	Forensic Investigation of Stolen Files and Private Browsing.
1:30 PM	Konney, Simon	Murder for Life Insurance
1:30 – 3:00 PM	Poster Session 3	Ballroom
	Easel #	
1	Schoenecker, Lindsey; Hansen, Jonathon; Lowe, Jacob; Linz, Cassandra; Hince, Brianna; Chitwood, Miranda; Miller, Emily; Rosendahl, Annalise; Wieber, Kalie	Immunization Exemptions in Meeker County
2	Schmeltzer, Matt	The Synthesis and Addition of Phthalonitriles onto Phthalocyanines
3	Rutz, Kyle	Synthesis of Tetraazaperylene
4	Hall, Danielle	Synthesis of a Novel, Redox-Switchable Hemiporphyrine
5	Orsatti, Micah; Ziegler, Katie	Developing SMART Kids in St. Cloud, MN
6	Corbin, Jonathan	Minnesota Rivers as Roadways
7	Muench, William; Tran, Paul; Scholl, Michael	Cyber-Physical Data Acquisition System for Force Detection
8	Hajek, Alexander; Sweeney, Kevin; Trudeau, David	S.P.A.R.K.-E.
9	Mayow, Abshiro	Quantification of Glutamate and Gamma-Aminobutyric Acid (GABA) concentrations in planaria (flatworms) <i>Dugesia tigrina</i> using High Performance Liquid Chromatography (HPLC)
10	Klasen, Kassie	Green Fluorescent Protein siRNA Delivery to HEK 293 Cells using Polymeric Nanoparticles
11	Kalk, Megan; Abdullah, Josefina	SCSU 35th Annual Statewide Survey: Select Findings on Minnesotan's Views on Police, Equality, and Immigration
12	Kilbourn, Alyssa; Van Dusen, Kimberly; Noble, Kristi; Mathison, Emma; Jonas, Christian	High Impact Practices and Student Success
13	Mundis, Angela	Inclusive Trade: An Analysis of the Trans Pacific Partnership and it's Implications for Midwestern Farmers.
14	Jahan, Nusrat	Field Validation of MALDI-ToF by using 16S rDNA Sequencing
15	Beals, Jennifer; Armstrong, Tiana	Co-Evolution of Zooplankton and Epiphytes
16	Boyd-Lecky, Braimah; Brown, Monet	Are Wood Eating Catfish a Myth
17	Gordon, Joshua	Making a Better Bone Supplement

SESSION SCHEDULE AND PRESENTATION TIMES

18	Joseph, Jungwirth	Microplastic Impacts on Aquatic Grazers
19	Jason, Poepke	Is my Milk Supposed to be this Color: Using Dairy Waste to Grow Algae
20	Kallinen, Kirsti	Lepidium Sativum
21	Stanishevskia, Taisiia; Kasper-Olson, Alec; Boggs, Lyndsey; DeLoera, Elizabeth	Analysis of the European Migrant Movement Part 1
22	Schmidt, Ben; Teter, Michael	Analysis of the European Migrant Movement Part 2
23	Piersak, Matthew	How Geography Effects Pollution in the Mississippi River
24	Gastecki, Dilan	Historical Geography of Lake-Front Development in Crow Wing County, Minnesota (1900-present)
25	Hinz, Sandra	Annotation of the Histidine Pathway in Pseudomonas Aeruginosa
26	Dick, Kaitlin	Isolation of Antimicrobial Compounds from Bacteria
27	Eischens, Peter	Vocational Rehabilitation Counselors and Case Closures for Consumers with Co-Occurring Addiction Disorders
28	Schmidt, Derek; Nguyen, Quang; Addala, Vaibhav	Bipolar Junction Transistor Parameter Analyzer
29	Bang, Caroline	A Class of Gnomons
30	Lampert, Christopher; Waalen, Brandon; Tacheny, Nick	Hexapod Robot Controller
31	Kalkbrenner, Andrew; Schmitz, Steven; Peterson, Brent	Magnetic Field Generator
32	Bosch, Lee; Williams, Larry	Managed LED Lighting System
33	Kim, Hyeju	Science, Technology, Engineering, and Mathematics (STEM) and Minority Participation: The Pipeline Program at ST.Cloud State University
34	Claeson, Sam	Economic Development: A synopsis of state programs directed towards the enhancement of economic success in the State of Minnesota
35	Finstad, Robert	Performance and Security Evaluation of Embedded Networked Systems using WirelessHART
36	Jevremovic, Jovana	Quality Matters Solutions to Online Students' Concerns
37	Yang, Douchi	Hmong Bilingual Paraprofessionals in the EL Classroom
38	Lee, Jason	Density of Water on the Surface of Nano Particles
39	Jain, Darshan; Feelixge, Kusal; Warzecha, Daniel	Room Mapping Robot Swarm
40	Tchang, Michel	Biodistance Analysis Between Classic Neanderthal Populations Using Non-Metric Features of the Dentition.
41	Knutson-Kolodzne, James	The Relationship between Patterns of Student Involvement and Acculturation

SESSION SCHEDULE AND PRESENTATION TIMES

42	Byman, Jon	Atwood Oscillator with Infinite Period for Robotics Applications
43	Yadessa, Henock; Asseged, Yebeltal; Khadka, Ashish	POV 3D Glove
44	Andersen, Joshua; Mackedanz, Austin; Kinnamon, Christopher	Concussion Detection and Notification System for Football Helmets
45	Delwiche, Stephen	The Geography of the Tea Party Movement
46	Kipping, Casey; Bom, Sadhana	Characterization of Salmonella Isolated from Imported Frozen Fish Sold in Central Minnesota

2:00 – 3:20 PM Paper/Oral Session Alumni Room

Moderator: David Robinson, Mathematics and Statistics

2:00 PM	Dattalo, Ashley; Walcome, Alectra; Nwachuku, Onyedimma	High School Graduation Rates Analysis
2:20 PM	Galarneault, Taylor; Phipps, Jahmai; Richards, Andrea	Can Demographic Indicators be Linked to MMR Scores?
2:40 PM	Peterson, Brian; Toftey, Josh; Klein, Joel	Comparing ACT and MCA Scores
3:00 PM	Fogarty, Gabe	Rhetoric for Ethics & Global Leadership

2:00 – 3:20 PM Paper/Oral Session Glacier North

Moderator: Pamela Cesnik, Research and Sponsored Programs

2:00 PM	Reu, Songha	Utilizing the Access Opportunity Program to increase Post Secondary Education Option Program participation of underrepresented groups by analyzing related factors: St. Cloud School District 742
2:20 PM	Wellumson, Sarah; Shir, Matthias; Van Beck, Louis	Caterpillar Senior Design Project 2015-2016
2:40 PM	Gautam, Bikrant	Compromising Windows XP using Metasploit Framework and Prevention Recommendation
3:00 PM	Fogarty, Stuart	SMURF1 as a Novel Regulator of PGC-1a

2:00 – 3:20 PM Paper/Oral Competition 8 Glacier South

Moderator: Kristy Modrow, School of Public Affairs

2:00 PM	Sternberg, Lance	Shadow of a Forgotten Past: Historical Amnesia and The Dakota Conflict of 1862
2:20 PM	Berg, Dylan	Holocaust and Collaboration in Lithuania, 1941-1944
2:40 PM	Kandel, Sudip	A Frictitious Case
3:00 PM	Shakya, Sanjina; Paudel, Alon	Crime Case Solved Using Digital Forensics Tool

SESSION SCHEDULE AND PRESENTATION TIMES

2:00 – 3:30 PM Performances/Creative Works Session Theatre

Moderator: Stephen Janasie, College of Science and Engineering

2:00 PM	Carr, Caitlin; Peters, Jessica; Johnson, Robert; Thole, Tim	Phillip Glass Buys a Loaf of Bread
2:15 PM	Mertz, Grace	I Regret Nothing: A Solo Performance
2:45 PM	Botz, Sharon	Samurai and Music

2:00 – 3:30 PM Paper/Oral Session Voyageurs North

Moderator: Darlene St. Clair, Multicultural Resource Center

2:00 PM	Grewatz, Michael	A Medical Identity Crisis: Measuring Levels of HSV-Related Stigma Among College Students in an Introductory Diversity Course
2:20 PM	Grant, Nicole	Apathy to Action: A Study on the Attitudes towards Global Citizenship Among University Students in St. Cloud
2:40 PM	Taw, Eh Ta	Pull and Push Theory of Migration Apply to Karen Refugee to the United States
3:00 PM	Tarr, Johnette	Role Models of Success: Liberian Mothers' Influence on Their Sons' Education

2:00 – 3:30 PM Paper/Oral Session Voyageurs South

Moderator: Dan Huwe, College of Liberal Arts, School of the Arts

2:00 PM	Veerlapati, Prasanna kumar; Joshi, kartikey; Kumaravelu, Sakthivel; Bera, Debalina	Workplace Organization of Service Area in an Automotive Repair Facility using 5S Methodology
2:20 PM	Palamuru, Priyanka; Bhamidi, Srilakshmi; Gollakota, Sriharsha; Hanumakonda, Mahesh Kumar; Kolanu, Raghavender	Material Handling Improvement at a Grocery Store
2:40 PM	Surya, Lakshmisri; Vangapalli, Sankeerth; Yeddula, Naresh; Boinapally, Nikhil; Guda, Harish	Implementing 5s Principles at a Local Grocery Store
3:00 PM	Dahal, Jeevan; Dulipala, Bala Krishna; Kusuma, Vinay David; mallavarapu, Anand Kumar; Rentala, Bhargav Tej Bharadhwaj	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant

STUDENT PRESENTER INDEX

Student Name	Project Title	Sponsor(s)	Time	Room
Aashika, Khadka	Hard Drive Analysis	Schmidt, Mark	11:45 AM	Voyageurs South
Abat, Martina	Double Coda Devoicing in Western South Slavic Speakers' Accented English	Koffi, Ettien	8:30 AM	Ballroom
Abdullah, Josefina	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Abdullah, Josefina	SCSU 35th Annual Statewide Survey: Select Findings on Minnesotan's Views on Police, Equality, and Immigration	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	1:30 PM	Ballroom
Abrams, Deborah	Interaction Effects of Medicare on the Relationship between Family Type and Formal Home Health Care Service Use	Yeo, Younsook; Togo Malm, Patience	8:00 AM	Alumni
Addala, Vaibhav	Bipolar Junction Transistor Parameter Analyzer	Hossain, Md	1:30 PM	Ballroom
Adhikari, Himal	Recidivism Over Time for Different Conviction Levels	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:40 AM	Voyageurs North
Afolabi, Mariam	The Effect of Methanolic Extract of Wonderful Kola (Buchholzia coriacea) seeds on GnRH, LH, and FSH Secretion in Ovarietomized Sprague Dawley Rats- A Pilot Study	Gazal, Oladele	11:00 AM	Ballroom
Agalawatte, Harinda	Blockage Prevention and Detection in an Implantable Cerebral Shunt for the Treatment of Hydrocephalus	Sezen, Ahmet	1:10 PM	Voyageurs North
Ahmadi, Ghulam Yahya	A Comparative Analysis of Higher Learning Commission (HLC) and Quality Assurance and Accreditation Directorate (QAAD)	Imbra, Christine; Foss, Lisa	8:30 AM	Ballroom
Aho, Kathi	Type Face Creation	Christensen, Keith	11:00 AM	Ballroom
Ahrens, Brittany	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Alam, Sheik	Corporate Espionage	Schmidt, Mark	12:45 PM	Voyageurs South

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Student Name	Project Title	Sponsor(s)	Time	Room
Alarcon, Ruth	What Strategies do Students Use to Learn Academic Vocabulary? Are They Effective?	Kim, Choonkyong	11:00 AM	Ballroom
Amenu, Anania	Performance of modified zeolites for the treatment of nitrate-contaminated solutions	Sivaprakasam, Kannan	11:00 AM	Ballroom
Anderman, Kelsey	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Andersen, Joshua	Concussion Detection and Notification System for Football Helmets	Glazos, Michael	1:30 PM	Ballroom
Anderson, Sarah	The Effect of "Baby Sign" on Early Language Development for "At Risk" Populations	Smits-Bandstra, Sarah	8:30 AM	Ballroom
Anderson, Shelby	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Antonich, Lauren	Community Health Internship at the YMCA	Heck, Teresa	11:00 AM	Ballroom
Armstrong, Tiana	Co-Evolution of Zooplankton and Epiphytes	Julius, Matthew	1:30 PM	Ballroom
Aryal, Sumedha	Performance of modified zeolites for the treatment of nitrate-contaminated solutions	Sivaprakasam, Kannan	11:00 AM	Ballroom
Asseged, Yebeltal	POV 3D Glove	Vogt, Timothy	1:30 PM	Ballroom
Athman, Jenna	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Ault, Anna	Pathway into Darkness	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Bajracharya, Timila	United States Median Annual Household Income and Poverty Percentage, 2014	Blinnikov, Mikhail	11:00 AM	Ballroom
Bako, Adama	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Balle, Eliakim	Pool Valve Prototype	Byun, Jeongmin	8:20 AM	Alumni
Balsemo, Brianna	Analysis of Lithic Tools and Points at the Little Elk River Mission Site	Mann, Robbie	10:00 AM	Cascade
Bang, Caroline	A Class of Gnomons	Buske, Dale; Hanzsek-Brill, Melissa	1:30 PM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Barthel, Adam	Mill Cities: The Geography of Lumber Mills as a Precursor of European American Settlement in Minnesota	John, Gareth	8:30 AM	Ballroom
Barthel, Joel	Feasibility of the Kinematic Wave Method for Computing the Hydrologic Properties of Agriculturally-Dominated Watersheds	Pound, Katherine; Cheng, Chieh	11:00 AM	Ballroom
Basnayake, Kasun	Mobile Tracking and Spying	Schmidt, Mark	10:15 AM	Voyageurs South
Bates, Maria	Gender, Emotion, and Perception of Guilt	Buswell, Brenda	8:30 AM	Ballroom
Bauman, Rebecca	Seeing and Using Visual Language	Christensen, Keith	8:40 AM	Alumni
Baxter, Tyler	Laser Ablation Material Capture	Sinko, John	8:30 AM	Ballroom
Bayerl, Raechell	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Beals, Jennifer	Co-Evolution of Zooplankton and Epiphytes	Julius, Matthew	1:30 PM	Ballroom
Beals, Jennifer	The evolution of motility in diatoms	Julius, Matthew	8:30 AM	Ballroom
Bennett, Rose	Benedictine Monasteries and Facilitates use change in france	John, Gareth	8:30 AM	Ballroom
Bennis, Capree	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Bera, Debalina	Workplace Organization of Service Area in an Automotive Repair Facility using 5S Methodology	Shah, Hiral	2:00 PM	Voyageurs South
Berg, Dylan	Holocaust and Collaboration in Lithuania, 1941-1944	Wingerd, Mary	2:20 PM	Glacier South
Bergstrom, Jill	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Bertram, Riley	Waterfall-Climbing Gobies; The Variation in Climbing Techniques	Schoenfuss, Heiko	11:20 AM	Glacier North
Bhamidi, Srilakshmi	Material Handling Improvement at a Grocery Store	Shah, Hiral	2:20 PM	Voyageurs South
BioSawe , Ansai	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Bisping, Ashley	The Effect of BPA Exposure on Insulinitis Lesion in a C57BL/6 Mouse Model of Autoimmune Diabetes	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Biswas, Sutapa	Magnetic Mirror & Plasma Trapping	Sinko, John	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Biswas, Sutapa	Testing Non-Linear & Fractional Order Circuit	Bohannan, Gary	8:30 AM	Ballroom
Blee, John	The Impact of Program Intervention on High School Graduation For Underrepresented Students	Johnson, Robert	8:30 AM	Ballroom
Blomker, Elizabeth	The Effect of BPA Exposure on Insulinitis Lesion in a C57BL/6 Mouse Model of Autoimmune Diabetes	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Blomker, Jacquelin	Histological Effects of Temperature and Estrogenic Exposure on Adult Fathead Minnows	Schoenfuss, Heiko	1:30 PM	Alumni
Blue, Jeremiah	Design of a Mechanism Analysis Platform for the ISELF Robotics Laboratory and Industrial Motor Control Workstations for the ISELF Controls and Sensors Laboratory	Sezen, Ahmet	12:50 PM	Voyageurs North
Boggs, Lyndsey	Analysis of the European Migrant Movement Part 1	Mueller, Isolde	1:30 PM	Ballroom
Boinapally, Nikhil	Implementing 5s Principles at a Local Grocery Store	Shah, Hiral	2:40 PM	Voyageurs South
Bom, Sadhana	Characterization of Salmonella Isolated from Imported Frozen Fish Sold in Central Minnesota	Fink, Ryan; Davis, Matthew	1:30 PM	Ballroom
Bosch, Lee	Managed LED Lighting System	Vogt, Timothy	1:30 PM	Ballroom
Botz, Sharon	Samurai and Music	Verrilli, Catherine	2:45 PM	Theatre
Bourgoin, Ben	Investigations into Trans People, Language, and Grammatical Gender	Mueller, Isolde	9:00 AM	Voyageurs South
Bowler, Ryan	Fabrication of Instrumented Boulders for Field Analysis of Stream Flow	Pound, Katherine; Bender, Michner	11:00 AM	Ballroom
Boyd-Lecky, Braimah	Are Wood Eating Catfish a Myth	Julius, Matthew	1:30 PM	Ballroom
Brown, Monet	Are Wood Eating Catfish a Myth	Julius, Matthew	1:30 PM	Ballroom
Bruner, Kylie	Effects of Bisphenol A on the Function of Immune T-cells in an Experimental Type 1 Diabetes Mouse Model	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Burnett, Casey	A Study of PTSD and Levels of Stress among College Students at St.Cloud State University	Guo, Yuh-Jen; Wang, Shu-Ching	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Burski, Danielle	Stress Induced Mate Choice Copying in Domestic Guppies	Marcattilio, Anthony	11:00 AM	Ballroom
Bushinger, Nicholas	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Byers, Amanda	The Effect of BPA Exposure on Insulinitis Lesion in a C57BL/6 Mouse Model of Autoimmune Diabetes	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Byman, Jon	Atwood Oscillator with Infinite Period for Robotics Applications	Haglin, Kevin	1:30 PM	Ballroom
Byron, Kandice	High and Low Frequency Vocabulary Use and Social Registers	Kim, Choonkyong	8:00 AM	Glacier South
Cai, Wenting	Predicting Violation of Probation	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	9:00 AM	Voyageurs North
Carley, Samantha	Cultural Background and Vocabulary Acquisition	Kim, Choonkyong	11:00 AM	Ballroom
Carr, Caitlin	Phillip Glass Buys a Loaf of Bread	Wentworth, Brenda	2:00 PM	Theatre
Carter, Zac	Determinants of Police Expenditures	MacDonald, Lynn	1:10 PM	Cascade
Cash, Brock	Using PCR to Amplify and Isolate Inserts from a Toxoplasma gondii cDNA Library	Kvaal, Christopher	11:00 AM	Ballroom
Chanthalangsy, Jeffrey	Pool Valve Prototype	Byun, Jeongmin	8:20 AM	Alumni
Chapman, Alicia	Foster care students and secondary education	Zuo, Jiping	8:40 AM	Glacier South
Chen, Chien-chia	Fluorescence Detection of Triclosan Using Enhanced Photoactivated Luminescence(EPL)	Dvorak, Michael	11:00 AM	Ballroom
Cherdnet, Dyrat	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Chitwood, Miranda	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Choi, Eunhee	Improving the Efficiency of Production Process at Subway	Shah, Hiral	12:30 PM	Alumni
Christiansen, Julianne	Optimization of Automated Single-Drop Microextraction for Reproducible Analysis of Part-Per-Billion Concentrations	Jeannot, Michael	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Chung, Eu Sheng	Design of a Mechanism Analysis Platform for the ISELF Robotics Laboratory and Industrial Motor Control Workstations for the ISELF Controls and Sensors Laboratory	Sezen, Ahmet	12:50 PM	Voyageurs North
Claeson, Sam	Economic Development: A synopsis of state programs directed towards the enhancement of economic success in the State of Minnesota	Ugochukwu, Chukwunyere	1:30 PM	Ballroom
Coffman, Megan	Interprofessional Curricular Goals: Student Perspectives & Faculty Outcomes	Estrem, Theresa	8:30 AM	Ballroom
Conaway, Amanda	Analysis of Sauk Lake Sediment Core 2A for Interpretation of Sedimentation History in the Sauk River Watershed	Pound, Katherine	11:00 AM	Ballroom
Conaway, Amanda	Hydraulic and Hydrologic Models of the Sauk River	Cheng, Chieh	8:30 AM	Ballroom
Considine, Rose	Goodhue County Health and Human Services	Heck, Teresa	11:00 AM	Ballroom
Corbin, Jonathan	Minnesota Rivers as Roadways	Mann, Robbie	1:30 PM	Ballroom
Cox, Megan	Modulation of Estrogenic Effects via Temperature on Two Life Stages of Fathead Minnow	Schoenfuss, Heiko; Ward, Jessica	11:00 AM	Glacier North
Crawford, Christopher	Plasma Deposition of Diamond-Like Carbon	Sinko, John	8:30 AM	Ballroom
Dahal, Jeevan	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant	Shah, Hiral	3:00 PM	Voyageurs South
Dahlberg, Kaitlen	A Method to Study Simulated Gambling Under the Same Conditions in Which Problem Gamblers Gamble	Witts, Benjamin	11:00 AM	Cascade
Dai, Weiyi	Wireless Health Monitoring System	Vogt, Timothy	8:20 AM	Glacier South
Dangol, Pravin	Blockage Prevention and Detection in an Implantable Cerebral Shunt for the Treatment of Hydrocephalus	Sezen, Ahmet	1:10 PM	Voyageurs North
Dasari, Sri Rama Chandra Charan Tej	The Cold Blooded Murder	Schmidt, Mark	10:00 AM	Voyageurs South

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Student Name	Project Title	Sponsor(s)	Time	Room
Dattalo, Ashley	Agent Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:00 AM	Voyageurs North
Dattalo, Ashley	High School Graduation Rates Analysis	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:00 PM	Alumni
De Silva, Samera	Complementary and Alternative Medicine Utilization in the Kingdom of Bahrain - A Review	Gazal, Oladele	11:00 AM	Ballroom
Debner, Jack	North by Northstar: An Analysis of Commuting Students at St. Cloud State University	John, Gareth	8:30 AM	Ballroom
DeChene, Nicholas	Student-Led and Live Supervised Group Experience for Leadership Development	Guo, Yuh-Jen	8:30 AM	Ballroom
DeLoera, Elizabeth	Analysis of the European Migrant Movement Part 1	Mueller, Isolde	1:30 PM	Ballroom
Delwiche, Stephen	The Geography of the Tea Party Movement	John, Gareth	1:30 PM	Ballroom
Dempsey, Joseph	Living Learning Community Learning Outcomes Assessment	Babcock, Annie	8:30 AM	Ballroom
Dick, Kaitlin	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Dick, Kaitlin	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	1:30 PM	Ballroom
Donahue, Laura	Invasive Species Management	Arriagada, Jorge	8:30 AM	Ballroom
Downs, Dakota	Graco Electrostatic Sprayer	Little, Eric	9:50 AM	Voyageurs North
Dulipala, Bala Krishna	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant	Shah, Hiral	3:00 PM	Voyageurs South
Duncan, Blake	Detention Data: A Statewide County Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:20 AM	Voyageurs North
Duncan, Chelsey	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Durant, Isaac	Power Generating Bicycle Trainer	Glazos, Michael	8:30 AM	Ballroom
Dutta, Sujata	Layout Improvement at a Medical Devise Refurbishment Business	Shah, Hiral	11:00 AM	Glacier South

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Student Name	Project Title	Sponsor(s)	Time	Room
Ebinger, Eryn I.	BPA increases incidence of Type 1 Diabetes in C57Bl/6J Mouse Model	Cetkovic-Cvrlje, Marina	11:00 AM	Ballroom
Eischens, Peter	Serving Consumers Who Are LGBTTTQQIIAA+	Johnson, Brandon	11:00 AM	Ballroom
Eischens, Peter	Vocational Rehabilitation Counselors and Case Closures for Consumers with Co-Occurring Addiction Disorders	Knopf, Amy	1:30 PM	Ballroom
Ellis, Samuel	Functional Complementation of the Histidine Biosynthetic Pathway in <i>Thiomicrospira crunogena</i>	Kvaal, Christopher	11:00 AM	Ballroom
Ergen, Paul	Occupation, Collaboration, and Resistance in Vichy France: an Examination of Trauma and the Evolution of Post-War Memory in France	Wingerd, Mary	12:30 PM	Cascade
Erickson, Nicholas	Higher Level Math Effects on Student Success in Economics	Robinson, David; Kilborn, Judith	11:00 AM	Ballroom
Everson, Sarah	Internship	Heck, Teresa	11:00 AM	Ballroom
Feelixge, Kusal	Room Mapping Robot Swarm	Petzold, Mark	1:30 PM	Ballroom
Ferrell, Matthew	SCSU Concert Choir	Ferrell, Matthew	1:15 PM	Theatre
Filiyaro, Cedric	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Finazzo, Daniel	Quantum-Mechanical Treatment of Hydrogen Ion Dynamics in Carbon Nanotubes	Guster, Dennis	1:30 PM	Cascade
Finstad, Robert	Performance and Security Evaluation of Embedded Networked Systems using WirelessHART	Ghosh, Tirthankar; Zheng, Yi	1:30 PM	Ballroom
Flemke, Jason	Polarimetric Radar Detection of the Melting Layer using X- and S-band Frequencies	Kubesh, Rodney	11:00 AM	Ballroom
Fogarty, Gabe	Predicting Violation of Probation	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	9:00 AM	Voyageurs North
Fogarty, Gabe	Rhetoric for Ethics & Global Leadership	Cummins, Molly	3:00 PM	Alumni

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Student Name	Project Title	Sponsor(s)	Time	Room
Fogarty, Stuart	SMURF1 as a Novel Regulator of PGC-1a	Olson, Brian	3:00 PM	Glacier North
Frank, Jeffrey	Disaster Preparedness	Heck, Teresa	11:00 AM	Ballroom
Franks, Kelly	Internship Presentation	Ulferts, Lori	11:00 AM	Ballroom
Fuchs, Dustin	Brain Shunt Redesign	Bekkala, Andrew	10:30 AM	Glacier North
Gahm, Noah	Glory Box by Tim Miller: A Drama Interpretation	Wells, Scott	10:30 AM	Theatre
Gahm, Noah	Mick Harte Was Here by Barbara Park: A Prose Interpretation	Wells, Scott	10:50 AM	Theatre
Galarneault, Taylor	Can Demographic Indicators be Linked to MMR Scores?	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:20 PM	Alumni
Gandi, Bhavika	Web Hacking	Schmidt, Mark	9:30 AM	Voyageurs South
Gastecki, Dilan	Historical Geography of Lake-Front Development in Crow Wing County, Minnesota (1900-present)	John, Gareth	1:30 PM	Ballroom
Gautam, Bikrant	Compromising Windows XP using Metasploit Framework and Prevention Recommendation	Herath, Susantha	2:40 PM	Glacier North
Gilyard, Dustin	Laser Plasma Generation for a Thruster	Sinko, John	8:30 AM	Ballroom
Gilyard, Dustin	Pulsed Plasma Thruster	Sinko, John	11:00 AM	Ballroom
Goedeke, Amanda	USS Essex: A Historical and Time Geography	John, Gareth	9:50 AM	Glacier South
Gollakota, Sriharsha	Material Handling Improvement at a Grocery Store	Shah, Hiral	2:20 PM	Voyageurs South
Gordon, Joshua	Annotation of the Histidine Biosynthetic Pathway of <i>Vibrio fisheri</i>	Kvaal, Christopher	11:00 AM	Ballroom
Gordon, Joshua	Making a Better Bone Supplement	Julius, Matthew	1:30 PM	Ballroom
Gotzinger, Brittany	Student-Led and Live Supervised Group Experience for Leadership Development	Guo, Yuh-Jen	8:30 AM	Ballroom
Grant, Jason	Detention Data: A Statewide County Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:20 AM	Voyageurs North

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Student Name	Project Title	Sponsor(s)	Time	Room
Grant, Nicole	Apathy to Action: A Study on the Attitudes towards Global Citizenship Among University Students in St. Cloud	Blinnikov, Mikhail	2:20 PM	Voyageurs North
Grewatz, Michael	A Medical Identity Crisis: Measuring Levels of HSV-Related Stigma Among College Students in an Introductory Diversity Course	Conlon, Bridget	2:00 PM	Voyageurs North
Grewatz, Michael	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Guda, Harish	Implementing 5s Principles at a Local Grocery Store	Shah, Hiral	2:40 PM	Voyageurs South
Guntaka, Meera Nikhil Chandra	Database Security In Financial Services Using Security Socket Layer & Transperent Data Encryption	Chen, Qingjun	9:30 AM	Voyageurs North
Gustafson, Jacob	Virtuoso	Twombly, Kristian	8:30 AM	Ballroom
Haase, Katrina	Internship Highlights	Heck, Teresa	11:00 AM	Ballroom
Hafing, Donald	The Smart Killer	Schmidt, Mark	12:30 PM	Voyageurs South
Hajek, Alexander	S.P.A.R.K.-E.	Amiri, Rami	1:30 PM	Ballroom
Hall, Danielle	Synthesis of a Novel, Redox-Switchable Hemiporphyrzine	Gardner, Thomas	1:30 PM	Ballroom
Hall, Kristina	Electrical Impedance Tomography Device for Soft Tissue Imaging	Zheng, Yi	8:20 AM	Voyageurs South
Han, Yutong	Digital Forensics Case	Schmidt, Mark	10:30 AM	Voyageurs South
Hansen, Jared	Performance of modified zeolites for the treatment of nitrate-contaminated solutions	Sivaprakasam, Kannan	11:00 AM	Ballroom
Hansen, Jonathon	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Hanumakonda, Mahesh Kumar	Material Handling Improvement at a Grocery Store	Shah, Hiral	2:20 PM	Voyageurs South
Harri-Dennis, Elizabeth	Sign-Tracking in the Madagascar Hissing Cockroach	Witts, Benjamin	9:50 AM	Glacier North
Hart, Erin	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Hasbay, Utku	BPA increases incidence of Type 1 Diabetes in C57Bl/6J Mouse Model	Cetkovic-Cvrlje, Marina	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Hasbay, Utku	Exposure of Fathead Minnows to Complex Urban Mixture	Schoenfuss, Heiko	8:30 AM	Ballroom
Heinicke, Annaliese	Of Moose and Men: A Geographical Synthesis Towards Understanding the Declining Moose Population in Minnesota	John, Gareth	1:10 PM	Glacier North
Heldberg, Heidi	The Cement Mixer Experiment: How rapidly will igneous rocks be reduced in size during stream transport?	Pound, Katherine	11:00 AM	Ballroom
Heldberg, Heidi	What does sediment composition in core VICSURK 1A from Lake Victoria, MN tell us about lake sedimentation history?	Pound, Katherine	8:30 AM	Ballroom
Hellweg, Andy	Home Security System	Hossain, Md	11:00 AM	Ballroom
Hengel, Michelle	Geography of the World Heritage List: Universal/Internationalism vs. Nationalism	Kroll, Nathan	8:30 AM	Ballroom
Hennagir, Seth	Charge Carrier Mobility Investigation in Oligocene Semiconductors	Lidberg, Russell	8:30 AM	Ballroom
Henningsen, Macy	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Heo, Nayoung	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Hermerding, Joshua	A Comparision of Academic Words and Technical Vocabulary Understanding	Kim, Choonkyong	10:10 AM	Voyageurs North
Hillukka, Jared	Graco Electrostatic Sprayer	Little, Eric	9:50 AM	Voyageurs North
Hince, Brianna	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Hinz, Sandra	Annotation of the Histidine Pathway in Pseudomonas Aeruginosa	Kvaal, Christopher	1:30 PM	Ballroom
Hirdler, Daniel	Performance of modified zeolites for the treatment of nitrate-contaminated solutions	Sivaprakasam, Kannan	11:00 AM	Ballroom
Hirlekar, Neha	Layout Improvement at a Medical Devise Refurbishment Business	Shah, Hiral	11:00 AM	Glacier South
Hislop, Travis	Four Wave Mixing to Characterize Solid State Materials	Lidberg, Russell	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Hislop, Travis	Synthesis of 9H-carbazole-1,2,7,8-tetracarbonitrile (C-TCN) for ribbon polymer formation	Gardner, Thomas	11:00 AM	Ballroom
Holgate, Breana	My Internship With March of Dimes	Heck, Teresa	11:00 AM	Ballroom
Horner, Amanda	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Howe, Christopher	Hard Drive Analysis	Schmidt, Mark	11:45 AM	Voyageurs South
Im, Hyebin	What English Learners Shows Reaction When They Face Unfamiliar Words?	Kim, Choonkyong	11:00 AM	Ballroom
Iskandar, Edward	Feasibility Study on Navigation and Obstacle Avoidance for Drones	Mekni, Mehdi	11:20 AM	Voyageurs North
Ismayilova, Urshana	Seeing and Using Visual Language	Christensen, Keith	11:00 AM	Ballroom
Issa, Mofeed	Layout Improvement at a Medical Devise Refurbishment Business	Shah, Hiral	11:00 AM	Glacier South
Jacobs, Abby	Social Statistics Research Project	Zou, Jiping	8:30 AM	Ballroom
Jacobs, Kelly	Invasive Species Management	Arriagada, Jorge	8:30 AM	Ballroom
Jacquemart, Lea	Student Affairs Communication: leveraging Google and virtual resources	Imbra, Christine	8:30 AM	Ballroom
Jahan, Nusrat	Field Validation of MALDI-ToF by using 16S rDNA Sequencing	Fink, Ryan	1:30 PM	Ballroom
Jain, Darshan	Room Mapping Robot Swarm	Petzold, Mark	1:30 PM	Ballroom
Jason, Poepke	Is my Milk Supposed to be this Color: Using Dairy Waste to Grow Algae	Julius, Matthew	1:30 PM	Ballroom
Jensch, Rebecca	The Effects of Various Sulfamethoxazole Concentrations on Plesiomonas shigelloides	Millis, Louise	11:00 AM	Ballroom
Jevremovic, Jovana	Quality Matters Solutions to Online Students' Concerns	Mills, Michael	1:30 PM	Ballroom
Jha, Ashwini	Digital Forensic Investigation	Schmidt, Mark	11:15 AM	Voyageurs South
Johnson, Cameron	Characterization of Immune Cells Post Bisphenol A (BPA) Exposure in C57BL/6J Mouse Model	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Johnson, Kelsey	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Johnson, Robert	Phillip Glass Buys a Loaf of Bread	Wentworth, Brenda	2:00 PM	Theatre
Johnson, Virginia	Light the Legacy	Heck, Teresa	11:00 AM	Ballroom
Jonas, Christian	High Impact Practices and Student Success	Robinson, David; Kilborn, Judith	1:30 PM	Ballroom
Jones, Donnell	Myoelectric Prosthetic Hand	Hou, Ling	11:00 AM	Ballroom
Joseph, Jungwirth	Microplastic Impacts on Aquatic Grazers	Julius, Matthew	1:30 PM	Ballroom
Joshi, kartikey	Workplace Organization of Service Area in an Automotive Repair Facility using 5S Methodology	Shah, Hiral	2:00 PM	Voyageurs South
Julius, William	High Voltage Electric Modification of Optical Properties of a Metal Film	Sinko, John	11:00 AM	Voyageurs North
Kabore, Landry	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Kajeweski, Stefanie Michelle	Compounds in bell peppers that could potentially decrease glucose levels	Jeannot, Michael	11:00 AM	Ballroom
Kalk, Megan	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Kalk, Megan	SCSU 35th Annual Statewide Survey: Select Findings on Minnesotan's Views on Police, Equality, and Immigration	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	1:30 PM	Ballroom
Kalkbrenner, Andrew	Magnetic Field Generator	Vogt, Timothy	1:30 PM	Ballroom
Kallinen, Kirsti	Lepidium Sativum	Gazal, Oladele	1:30 PM	Ballroom
Kamal, Parves	Corporate Espionage	Schmidt, Mark	12:45 PM	Voyageurs South
Kancharla, Arjun	Implementing an Inventory Management Solution at a Local Restaurant	Shah, Hiral	12:50 PM	Alumni
Kandel, Sudip	A Frictitious Case	Schmidt, Mark	2:40 PM	Glacier South

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Student Name	Project Title	Sponsor(s)	Time	Room
Kaneza, Kelly	Agent Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:00 AM	Voyageurs North
Kangas, Jana	Riverwood Healthcare Wellness	Heck, Teresa	11:00 AM	Ballroom
Kariniemi, Aaron	Graco Electrostatic Sprayer	Little, Eric	9:50 AM	Voyageurs North
Kasper-Olson, Alec	Analysis of the European Migrant Movement Part 1	Mueller, Isolde	1:30 PM	Ballroom
Kazzaz, Suhaib	Detoxification of heavy metals by modified zeolites	Sivaprakasam, Kannan	11:00 AM	Ballroom
Keh, Mario	Electromagnetic Levitation System	Hou, Ling	8:30 AM	Ballroom
Kessler, Karen	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Khadge, Suchit	Wireless Health Monitoring System	Vogt, Timothy	8:20 AM	Glacier South
Khadka, Ashish	POV 3D Glove	Vogt, Timothy	1:30 PM	Ballroom
Khadka, Elina	Solving a Mystery of a Missing Girl	Schmidt, Mark	11:00 AM	Voyageurs South
Khalil, Mohammed	Electromagnetic Levitation System	Hou, Ling	8:30 AM	Ballroom
Khan, Erum	Impact of Lepidium sativum dietary feeding on Testicular structure and Indices of Spermatogenesis in Sprague-Dawley rats	Gazal, Oladele	11:00 AM	Ballroom
Khatib, Mohammad	Home Security System	Hossain, Md	11:00 AM	Ballroom
Kilbourn, Alyssa	High Impact Practices and Student Success	Robinson, David; Kilborn, Judith	1:30 PM	Ballroom
Kim, Hyeju	Science, Technology, Engineering, and Mathematics (STEM) and Minority Participation: The Pipeline Program at ST.Cloud State University	Johnson, Robert	1:30 PM	Ballroom
Kim, Sunghee	Can Flatworms be used as Behavioral Screens for Potential Anti-Epileptic Drugs?	Ramakrishnan, Latha	1:30 PM	Glacier South
Kingston, Brittney	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Kinnamon, Christopher	Concussion Detection and Notification System for Football Helmets	Glazos, Michael	1:30 PM	Ballroom
Kipping, Casey	Characterization of Salmonella Isolated from Imported Frozen Fish Sold in Central Minnesota	Fink, Ryan; Davis, Matthew	1:30 PM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Klasen, Kassie	Green Fluorescent Protein siRNA Delivery to HEK 293 Cells using Polymeric Nanoparticles	Ramakrishnan, Latha	1:30 PM	Ballroom
Klein, Joel	Comparing ACT and MCA Scores	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:40 PM	Alumni
Knudsen, Cate	Lake Victoria Sediment Core VICSURK-4A Evidence for Lake Sedimentation History	Pound, Katherine	8:30 AM	Ballroom
Knutson-Kolodzne, James	The Relationship between Patterns of Student Involvement and Acculturation	McCullar, Steven	1:30 PM	Ballroom
Kolanu, Raghavender	Material Handling Improvement at a Grocery Store	Shah, Hiral	2:20 PM	Voyageurs South
Kolemale, Shukri	Detoxification of heavy metals by modified zeolites	Sivaprakasam, Kannan	11:00 AM	Ballroom
Kolpack, Brad	Did the Height of the Black Hills Affect Snow Totals from the Oct. 2013 Blizzard?	Srock, Alan	8:30 AM	Ballroom
Konney, Simon	Murder for Life Insurance	Schmidt, Mark	1:30 PM	Voyageurs South
Korn, Victoria	BPA increases incidence of Type 1 Diabetes in C57Bl/6J Mouse Model	Cetkovic-Cvrlje, Marina	11:00 AM	Ballroom
Koumaglo, Syntyche	Power Generating Bicycle Trainer	Glazos, Michael	8:30 AM	Ballroom
Kruger, Matthew	Impact of Water Drawdown on Shoreline Vegetation.	Bender, Michner	11:00 AM	Ballroom
Kumaravelu, Sakthivel	Workplace Organization of Service Area in an Automotive Repair Facility using 5S Methodology	Shah, Hiral	2:00 PM	Voyageurs South
Kunkel, Anthony	Quantum-Mechanical Treatment of Hydrogen Ion Dynamics in Carbon Nanotubes	Guster, Dennis	1:30 PM	Cascade
Kusuma, Vinay David	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant	Shah, Hiral	3:00 PM	Voyageurs South
Labor, Saby	Queer Midlevel Managers of Color in Student Affairs: Lived Experiences of Support and Resilience	Imbra, Christine	8:30 AM	Ballroom
Lachner, Michael	Moon Tracking Telescope	Sinko, John	8:30 AM	Ballroom
Lambert, Timothy	Electrostatic Spray Gun	Bekkala, Andrew; Kiviahde, Mark	8:00 AM	Voyageurs South

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Student Name	Project Title	Sponsor(s)	Time	Room
Lampert, Christopher	Hexapod Robot Controller	Glazos, Michael	1:30 PM	Ballroom
Lanoue, John	Agent Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:00 AM	Voyageurs North
LaPoint, Bailey	Pathway into Darkness	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Larson, Amanda	Assessing Academic Risk with Mapworks	Robinson, David; Kilborn, Judith	11:00 AM	Ballroom
Lee, Jason	Density of Water on the Surface of Nano Particles	Rafferty, Jake	1:30 PM	Ballroom
LeMay, Victoria	Contributing Parameters of the Upper Midwest Severe Weather Outbreak, 17 June 2010	Hansen, Anthony	11:00 AM	Ballroom
Lepp, Jonathan	Multispectral Diode Laser	Sinko, John	8:30 AM	Ballroom
Liebe, Ellen	Interprofessional Curricular Goals: Student Perspectives & Faculty Outcomes	Estrem, Theresa	8:30 AM	Ballroom
Lindquist, BrieAnna	Supernova Symphony	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Lindsay, Caitlin	Accused Student Advisors	Imbra, Christine; Sarnicki, Margaret	8:30 AM	Ballroom
Linhoff, Jessica	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Linn, Trista	Size Matters: An Examination of Stimulus Magnitude with Respect to Reinforcer Efficacy	Witts, Benjamin	8:40 AM	Voyageurs South
Linz, Cassandra	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Loop, Emily	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Lor, Mena	Analysis of Sauk Lake Sediment Core 2A for Interpretation of Sedimentation History in the Sauk River Watershed	Pound, Katherine	11:00 AM	Ballroom
Lowe, Jacob	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Maalis, Nicole	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North

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Student Name	Project Title	Sponsor(s)	Time	Room
Mackedanz, Austin	Concussion Detection and Notification System for Football Helmets	Glazos, Michael	1:30 PM	Ballroom
Malecek, Krystal	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
mallavarapu, Anand Kumar	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant	Shah, Hiral	3:00 PM	Voyageurs South
Mangolia, Anil	Layout Improvement at a Medical Devise Refurbishment Business	Shah, Hiral	11:00 AM	Glacier South
Manthrige, Chamira	Electrostatic Spray Gun	Bekkala, Andrew; Kiviahde, Mark	8:00 AM	Voyageurs South
Maples, Caitlin	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Marshall, George	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Martin, Rene	Evolution of Jaw Length and Dentition Variation in Deep-sea Lanternfishes (Teleostei: Myctophiformes)	Davis, Matthew	9:30 AM	Glacier South
Martinez, Mayra	Developing Literacy Skills in Mono- and Bilingual Children through Shared Book Reading	Estrem, Theresa	8:30 AM	Ballroom
Martinson, Mara	Autoethnography and Observational Study of Writing Center Online Tutorials	Mohrbacher, Carol	9:00 AM	Alumni
Mathison, Emma	Examining Subjective and Objective Stress Measurement: A Proposal for a Moderated Model to Predict Burnout	Protolipac, Daren	8:30 AM	Ballroom
Mathison, Emma	High Impact Practices and Student Success	Robinson, David; Kilborn, Judith	1:30 PM	Ballroom
Matson, Jordee	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Mattson, Brett	A Study of PTSD and Levels of Stress among College Students at St.Cloud State University	Guo, Yuh-Jen; Wang, Shu-Ching	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Mayow, Abshiro	Quantification of Glutamate and Gamma-Aminobutyric Acid (GABA) concentrations in planaria (flatworms) <i>Dugesia tigrina</i> using High Performance Liquid Chromatography (HPLC)	Ramakrishnan, Latha	1:30 PM	Ballroom
McClung, Julia	Constraint Induced Auditory Training	Rangamani, Grama	8:30 AM	Ballroom
McClung, Julia	The Effect of “Baby Sign” on Early Language Development for “At Risk” Populations	Smits-Bandstra, Sarah	8:30 AM	Ballroom
McDonald, Jessica	Influence of Lake-to-Lake Connections on Lake-Effect Snow Amounts in the Lake Michigan Snowbelt	Srock, Alan	11:00 AM	Ballroom
McDowell, Dillon	Seeing and Using Visual Language	Christensen, Keith	11:00 AM	Ballroom
McIntire, Natalie	Chemotherapeutic Agents from Natural Product Templates: The Design and Synthesis of a Novel Indanone Analogue	Mechelke, Mark	11:00 AM	Ballroom
Meagher, Jennifer	Teachers' Perspectives on the State of Writing in High School English Classrooms	Cogdill, Sharon	12:30 PM	Voyageurs North
Melendez, Evelyn	Agent Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:00 AM	Voyageurs North
Meneni, Shravani	Fictitious criminal case	Schmidt, Mark	1:00 PM	Voyageurs South
Merawi, Selam	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Mertz, Grace	I Regret Nothing: A Solo Performance	Tuder, Jennifer	2:15 PM	Theatre
Mertz, Grace	Stress Patterns on Homographic Words	Koffi, Ettien	8:30 AM	Ballroom
Mertz, Rachel	Myoelectric Prosthetic Hand	Hou, Ling	11:00 AM	Ballroom
Mettling, Jenae	Community Health Internship Experience	Heck, Teresa	11:00 AM	Ballroom
Meyman, Sami	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Miller, Emily	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Mire, Bayden	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Monson, Heide	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Montag, Taylor	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Morgan, Mike	PAPR Reduction with Selected Mapping k-hot Encoding of SI Index	Yao, Aiping	1:10 PM	Glacier South
Muench, William	Cyber-Physical Data Acquisition System for Force Detection	Amiri, Rami	1:30 PM	Ballroom
Muench, William	Fiber Optic Detection of Plasmas Within a Vacuum Environment	Sinko, John	11:00 AM	Ballroom
Mundis, Angela	Inclusive Trade: An Analysis of the Trans Pacific Partnership and it's Implications for Midwestern Farmers.	Blinnikov, Mikhail	1:30 PM	Ballroom
Munsch, Jon	IA 681 - Digital Forensics Case Study	Schmidt, Mark	11:30 AM	Voyageurs South
Mutai, Martin	Moon Tracking Telescope	Sinko, John	8:30 AM	Ballroom
Naill, Wyatt	Does a Wetland Hinder or Improve the Recharge Rate of a Surficial Aquifer?	Pound, Katherine	8:30 AM	Ballroom
Nakarmi, Jashmin	Art and Design by Jashmin Nakarmi	Christensen, Keith	11:00 AM	Ballroom
Nazzaro, Ryan	Virtuoso	Twombly, Kristian	8:30 AM	Ballroom
Ndow, Lamin	Design of a Mechanism Analysis Platform for the ISELF Robotics Laboratory and Industrial Motor Control Workstations for the ISELF Controls and Sensors Laboratory	Sezen, Ahmet	12:50 PM	Voyageurs North
Nedunuri, Anuarg	Implementing an Inventory Management Solution at a Local Restaurant	Shah, Hiral	12:50 PM	Alumni
Nemec, Gregg	Brain Shunt Redesign	Bekkala, Andrew	10:30 AM	Glacier North
Neuman, Nick	City Planning and Administration in a Minnesota City	Ugochukwu, Chukwunyere	8:30 AM	Ballroom
Nguyen, Quang	Bipolar Junction Transistor Parameter Analyzer	Hossain, Md	1:30 PM	Ballroom
Nipp, Alex	Fabrication of Instrumented Boulders for Field Analysis of Stream Flow	Pound, Katherine; Bender, Michner	11:00 AM	Ballroom
Nipp, Alex	Impact of Water Drawdown on Shoreline Vegetation.	Bender, Michner	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Noble, Kristi	Development of a Model to Predict Willingness to Disclose a Disability	Illies, Jody	12:50 PM	Cascade
Noble, Kristi	High Impact Practices and Student Success	Robinson, David; Kilborn, Judith	1:30 PM	Ballroom
Notch, Jennifer	Histological Effects of Temperature and Estrogenic Exposure on Adult Fathead Minnows	Schoenfuss, Heiko	1:30 PM	Alumni
Nwachuku, Onyedimma	High School Graduation Rates Analysis	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:00 PM	Alumni
Oliveira, Alfredo	Providing Safe Spaces for All	Imbra, Christine	8:30 AM	Ballroom
Olson, Emily	Evolution of Fangs across the Marine Lizardfishes (Teleostei: Aulopiformes)	Davis, Matthew	8:30 AM	Ballroom
Oluwagbemi, Oluwatobi	Politics in Nigeria	Cottrill, James; Greaves, Edward	10:30 AM	Cascade
Oluwagbemi, Oluwatobi	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Oluwagbemi, Oluwatobi	The Effects of Stress on International Students.	Cottrill, James	12:50 PM	Glacier North
Onwubuya, Sennami	The Divided Blacks; A conceptual study on understanding the ideologies that create division among African, African American, and Black American students on the St. Cloud State campus	Blinnikov, Mikhail	12:30 PM	Glacier North
Orsatti, Micah	Developing SMART Kids in St. Cloud, MN	Branam Macauley, Kelly	1:30 PM	Ballroom
Osborn, Megan	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Ouedraogo, Raissa	The Cold Blooded Murder	Schmidt, Mark	10:00 AM	Voyageurs South
Palamuru, Priyanka	Material Handling Improvement at a Grocery Store	Shah, Hiral	2:20 PM	Voyageurs South
Patel, Sawankumar	Spectroscopic Characterization and Relaxation Studies of Leuco Dyes Dispersed in Polymer Matrix	Sivaprakasam, Kannan	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Paudel, Alon	Crime Case Solved Using Digital Forensics Tool	Schmidt, Mark	3:00 PM	Glacier South
Paul, Robbie	War, Famine, Malnutrition, and Suicide in the Global Economy: An Historical Case Study in Capital Genocide	Panicker, Ajaykumar	1:30 PM	Glacier North
Pederson, Michael	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Perez, Jesus	Power Generating Bicycle Trainer	Glazos, Michael	8:30 AM	Ballroom
Peschl, Sterling	Predicting Violation of Probation	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	9:00 AM	Voyageurs North
Peters, Jessica	Phillip Glass Buys a Loaf of Bread	Wentworth, Brenda	2:00 PM	Theatre
Peterson, Brent	Magnetic Field Generator	Vogt, Timothy	1:30 PM	Ballroom
Peterson, Brian	Comparing ACT and MCA Scores	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:40 PM	Alumni
Phipps, Jahmai	Can Demographic Indicators be Linked to MMR Scores?	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:20 PM	Alumni
Picha, Chelsea	Limitations of the Enhanced Fujita Scale in Rural Minnesota	Srock, Alan	8:30 AM	Ballroom
Piersak, Matthew	How Geography Effects Pollution in the Mississippi River	John, Gareth	1:30 PM	Ballroom
Pintok, Molly Lou	Generating Discourses: Framing Visions of Landscape Concerning Windfarm Implementation in Wales, UK and Minnesota, USA	John, Gareth	10:10 AM	Glacier South
Plachejo, Álvaro	Ideas Worth Spreading... for Who? Exploring TED's Neoliberal Discourse	Zuo, Jiping	11:00 AM	Alumni
Ponce, Valerie	Acute and Chronic Effects of the Lepidium sativum Seed Intake and Kidney Function in Rats	Gazal, Oladele	11:00 AM	Ballroom
Pool, James	A Study of PTSD and Levels of Stress among College Students at St.Cloud State University	Guo, Yuh-Jen; Wang, Shu-Ching	8:30 AM	Ballroom
Prellwitz, Bryce	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Protolipac, Amanda	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Puch, Carly	Men in the Violence Against Women Movement: How they got there, where they fit, and how to move forward	Zuo, Jiping	11:20 AM	Alumni
Pydynkowski, James	Analysis of Sauk Lake Sediment Core 1A and Sedimentation History	Pound, Katherine	11:00 AM	Ballroom
Rabbitt, Shaela	Onward Christian Soldiers: Religion and the Battlefield Strategy of Thomas "Stonewall" Jackson	Eden, Jason	10:10 AM	Glacier North
Rahman, Mohammad	Autoethnography and Observational Study of Writing Center Online Tutorials	Mohrbacher, Carol	9:00 AM	Alumni
Ray, Andrew	Lake Victoria Sediment Core VICSURK-4A Evidence for Lake Sedimentation History	Pound, Katherine	8:30 AM	Ballroom
Rentalala, Bhargav Tej Bharadhwaj	Layout Design Modification To Improve Customer Satisfaction At a Local Restaurant	Shah, Hiral	3:00 PM	Voyageurs South
Retzer, Chris	Supernova Symphony	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Reu, Songha	Utilizing the Access Opportunity Program to increase Post Secondary Education Option Program participation of underrepresented groups by analyzing related factors: St. Cloud School District 742	Johnson, Robert	2:00 PM	Glacier North
Rex, Theodore	Place Politics in the Creation of the Boundary Waters Canoe Area Wilderness	John, Gareth	11:20 AM	Glacier South
Reynolds, John	An Examination of the Dakhóta Bark House	Mann, Robbie	8:30 AM	Ballroom
Richards, Andrea	Can Demographic Indicators be Linked to MMR Scores?	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:20 PM	Alumni
Richardson, Chrishonda	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Richter, Brittany	Internship with Stearns County Public Health	Heck, Teresa	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Rijal, Nirajan	Mobile Tracking and Spying	Schmidt, Mark	10:15 AM	Voyageurs South
Robinson, Joshua	Courting Behavior of Male Fathead Minnows in an Urban Mixture	Schoenfuss, Heiko	8:30 AM	Ballroom
Robinson, Madeline	National Incident Management System helps in reducing communication related problems	Schultz, Emily	11:40 AM	Glacier North
Rodness, Inga	Health Partners Wellness Internship	Heck, Teresa	11:00 AM	Ballroom
Roegner, Lucia	Constraint-Induced Auditory Therapy and Cognitive-Linguistic Therapy in Aphasia: A Single Case Study	Rangamani, Grama	8:30 AM	Ballroom
Rogan, Shana	Characterization of Immune Cells Post Bisphenol A (BPA) Exposure in C57BL/6J Mouse Model	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Rogers, Michael	Photodynamics of Organic Based Solar Cell Materials Studied by Pump-probe Transient Absorption Spectroscopy	Lidberg, Russell	8:30 AM	Ballroom
Rohr, Zach	IFA internship experience	Ulferts, Lori	11:00 AM	Ballroom
Rollo, Taylor	St. Cloud State Athletics Intern	Ulferts, Lori	11:00 AM	Ballroom
Rosendahl, Annalise	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Ross, Paige	Detoxification of heavy metals by modified zeolites	Sivaprakasam, Kannan	11:00 AM	Ballroom
Rothstein, Cory	A Case Study of the February 2, 2015 Minnesota Snowstorm	Srock, Alan	8:30 AM	Ballroom
Runde, Alex	Tracking Sediment Composition and Transport in the Sauk River Through Lake Sediment Cores	Pound, Katherine	8:30 AM	Ballroom
Rutz, Kyle	Synthesis of Tetraazaperylene	Gardner, Thomas	1:30 PM	Ballroom
Ryan, Paul	Higher Level Math Effects on Student Success in Economics	Robinson, David; Kilborn, Judith	11:00 AM	Ballroom
Ryberg, Cody	Advising the Inevitably Suspended Student	Imbra, Christine	8:30 AM	Ballroom
Salner, Ryan	Forensic Case Examination	Schmidt, Mark	9:45 AM	Voyageurs South
Salvo, Joel	SCSU Chamber Orchestra	Salvo, Joel	1:35 PM	Theatre
Satchivi, Tatiana	Recidivism Over Time for Different Conviction Levels	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:40 AM	Voyageurs North

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Student Name	Project Title	Sponsor(s)	Time	Room
Schaa, Brandon	Long Term Effects of Using Learning Assistants	Krystyniak, Rebecca	8:30 AM	Ballroom
Schaupp, Harmony	Analysis of Sauk Lake Sediment Core 1A and Sedimentation History	Pound, Katherine	11:00 AM	Ballroom
Schellberg, Grant	Fresnel Lens Oven	Sinko, John	8:30 AM	Ballroom
Schmeltzer, Matt	The Synthesis and Addition of Phthalonitriles onto Phthalocyanines	Gardner, Thomas	1:30 PM	Ballroom
Schmidt, Ben	Analysis of the European Migrant Movement Part 2	Mueller, Isolde	1:30 PM	Ballroom
Schmidt, Derek	Bipolar Junction Transistor Parameter Analyzer	Hossain, Md	1:30 PM	Ballroom
Schmit, Taylor	Effects of Bisphenol A on the Function of Immune T-cells in an Experimental Type 1 Diabetes Mouse Model	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Schmitz, Steven	Magnetic Field Generator	Vogt, Timothy	1:30 PM	Ballroom
Schoenecker, Lindsey	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Scholl, Michael	Cyber-Physical Data Acquisition System for Force Detection	Amiri, Rami	1:30 PM	Ballroom
Schrubbe, Gordon	Sophomore Survival	Imbra, Christine; Klepetar, Adam	8:30 AM	Ballroom
Schwieters, Rita	5nm Gold Nanoparticle Enthalpy of Dissolution	Lidberg, Russell	11:00 AM	Ballroom
Schwieters, Rita	Detoxification of heavy metals by modified zeolites	Sivaprakasam, Kannan	11:00 AM	Ballroom
Schwieters, Rita	Four Wave Mixing to Characterize Solid State Materials	Lidberg, Russell	8:30 AM	Ballroom
Seiberlich, Daniel	Brain Shunt Redesign	Bekkala, Andrew	10:30 AM	Glacier North
Seifu, Kirubel	UAV Flight Control Using Brain Signal : A Brain Computer Interface (BCI) approach utilizing a cloud computing infrastructure	Mekni, Mehdi	11:00 AM	Ballroom
Shakya, Sanjina	Crime Case Solved Using Digital Forensics Tool	Schmidt, Mark	3:00 PM	Glacier South
Shankar, Sruthi	Can Flatworms be used as Behavioral Screens for Potential Anti-Epileptic Drugs?	Ramakrishnan, Latha	1:30 PM	Glacier South

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Student Name	Project Title	Sponsor(s)	Time	Room
Shelton, Jeff	What does sediment composition in core VICSURK 1A from Lake Victoria, MN tell us about lake sedimentation history?	Pound, Katherine	8:30 AM	Ballroom
Shir, Matthias	Caterpillar Senior Design Project 2015-2016	Bekkala, Andrew	2:20 PM	Glacier North
Shoaib, Ahmed	Wireless Health Monitoring System	Vogt, Timothy	8:20 AM	Glacier South
Shumaker, Jennifer	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Siemon, Ann	Constraint Induced Auditory Training	Rangamani, Grama	8:30 AM	Ballroom
Simon, Akim	What are the strategies learners use when they are learning new words (nouns vs. verbs)?	Kim, Choonkyong	10:30 AM	Voyageurs North
Simon, Taylor	Assessing Academic Risk with Mapworks	Robinson, David; Kilborn, Judith	11:00 AM	Ballroom
Singewald, Blake	Internship Presentation	Ulferts, Lori	11:00 AM	Ballroom
Sitter, Natalie	Practicum Experience: Campus Recreation and Sports Facilities	Imbra, Christine; Seibring, Ronald	8:30 AM	Ballroom
Smith, Adam	Supernova Symphony	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Southard, Amy	Recidivism Over Time for Different Conviction Levels	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:40 AM	Voyageurs North
Sowada, Sebastian	Detention Data: A Statewide County Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:20 AM	Voyageurs North
Spike, Nathan	Blockage Prevention and Detection in an Implantable Cerebral Shunt for the Treatment of Hydrocephalus	Sezen, Ahmet	1:10 PM	Voyageurs North
Srimattirumala, Saranya	Implementing an Inventory Management Solution at a Local Restaurant	Shah, Hiral	12:50 PM	Alumni
Stanishevskia, Taisiia	Analysis of the European Migrant Movement Part 1	Mueller, Isolde	1:30 PM	Ballroom
Stanley, William	Predator Avoidance Behavior of Larval Fathead Minnows Exposed to a Complex Urban Mixture	Schoenfuss, Heiko	8:30 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Stay, Karen	Pulse on SCSU students: Spring survey report	Cottrill, James; Zerbib, Sandrine; Finan, Ann-Marie; Frank, Stephen; Hemmesch Breaker, Amanda; Wagner, Steven	9:30 AM	Alumni
Stein, Megan	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Stelten, Henry	Lake Victoria Sediment Core VICSURK-4A Evidence for Lake Sedimentation History	Pound, Katherine	8:30 AM	Ballroom
Sternberg, Lance	Shadow of a Forgotten Past: Historical Amnesia and The Dakota Conflict of 1862	Wingerd, Mary	2:00 PM	Glacier South
Steven, Yang	Virtuoso	Twombly, Kristian	8:30 AM	Ballroom
Stine, Sarah	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Stram, Lyndsey	Predicting Violation of Probation	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	9:00 AM	Voyageurs North
Strande, Jennifer	Detoxification of heavy metals by modified zeolites	Sivaprakasam, Kannan	11:00 AM	Ballroom
Strange, Brandon	Detention Data: A Statewide County Analysis	Robinson, David; Lihinikadu Arachchige, Nadeesha; D'Silva, Karl; Kustritz, Joseph	8:20 AM	Voyageurs North
Sui, Alice	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Sunstrom, Samantha	Granite Equity Internship	Heck, Teresa	11:00 AM	Ballroom
Surya, Lakshmisri	Implementing 5s Principles at a Local Grocery Store	Shah, Hiral	2:40 PM	Voyageurs South
Sweeney, Kevin	S.P.A.R.K.-E.	Amiri, Rami	1:30 PM	Ballroom
Swenson, Elizabeth	Gender, Emotion, and Perception of Guilt	Buswell, Brenda	8:30 AM	Ballroom
Tacheny, Nick	Hexapod Robot Controller	Glazos, Michael	1:30 PM	Ballroom
Tadepalli, Alankrutha	Implementing an Inventory Management Solution at a Local Restaurant	Shah, Hiral	12:50 PM	Alumni

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Student Name	Project Title	Sponsor(s)	Time	Room
Tamang, Ritu	Solving a Mystery of a Missing Girl	Schmidt, Mark	11:00 AM	Voyageurs South
Tarr, Johnette	Role Models of Success: Liberian Mothers' Influence on Their Sons' Education	Blinnikov, Mikhail	3:00 PM	Voyageurs North
Taw, Eh Ta	Pull and Push Theory of Migration Apply to Karen Refugee to the United States	Blinnikov, Mikhail	2:40 PM	Voyageurs North
Tchang, Michel	Biodistance Analysis Between Classic Neanderthal Populations Using Non-Metric Features of the Dentition.	Tornow, Matthew	1:30 PM	Ballroom
Teter, Michael	Analysis of the European Migrant Movement Part 2	Mueller, Isolde	1:30 PM	Ballroom
Thao, Victor	Fabrication of Instrumented Boulders for Field Analysis of Stream Flow	Pound, Katherine; Bender, Michner	11:00 AM	Ballroom
Theisen, Katelyn	Community Health Internship Display	Heck, Teresa	11:00 AM	Ballroom
Thinamany, Sinduja	Bisphenol A and Type 1 Diabetes; A Global Concern	Cetkovic-Cvrlje, Marina	9:30 AM	Cascade
Thole, Tim	Phillip Glass Buys a Loaf of Bread	Wentworth, Brenda	2:00 PM	Theatre
Thorson, Justin	BPA increases incidence of Type 1 Diabetes in C57Bl/6J Mouse Model	Cetkovic-Cvrlje, Marina	11:00 AM	Ballroom
Thottempudi, Anusha	Fictitious criminal case	Schmidt, Mark	1:00 PM	Voyageurs South
Tillman, Mazie	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Toe, Dokonle Fabrice	Home Security System	Hossain, Md	11:00 AM	Ballroom
Toftey, Josh	Comparing ACT and MCA Scores	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:40 PM	Alumni
Tran, Paul	Cyber-Physical Data Acquisition System for Force Detection	Amiri, Rami	1:30 PM	Ballroom
Tran, Thanh	Electrostatic Spray Gun	Bekkala, Andrew; Kiviahde, Mark	8:00 AM	Voyageurs South
Traut, Eric	Kandiyohi County Public Health	Warner, Susan	8:30 AM	Ballroom
Trudeau, David	S.P.A.R.K.-E.	Amiri, Rami	1:30 PM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Tudor, Gabriel	Characterization of Immune Cells Post Bisphenol A (BPA) Exposure in C57BL/6J Mouse Model	Cetkovic-Cvrlje, Marina	8:30 AM	Ballroom
Tyler, Schweisthal	Moon Tracking Telescope	Sinko, John	8:30 AM	Ballroom
Uzochukwu, Chimaobim	Emerging And Projected Uses Of Herbal Remedies In The Developing World - A Case Study Of Nigeria	Gazal, Oladele	11:00 AM	Ballroom
Valdez, Crystal	BLEND	Heck, Teresa	11:00 AM	Ballroom
Van Beck, Louis	Caterpillar Senior Design Project 2015-2016	Bekkala, Andrew	2:20 PM	Glacier North
Van Dusen, Kimberly	High Impact Practices and Student Success	Robinson, David; Kilborn, Judith	1:30 PM	Ballroom
Vang, Duha	Can Flatworms be used as Behavioral Screens for Potential Anti-Epileptic Drugs?	Ramakrishnan, Latha	1:30 PM	Glacier South
Vang, Joe	Pool Valve Prototype	Byun, Jeongmin	8:20 AM	Alumni
Vangapalli, Sankeerth	Implementing 5s Principles at a Local Grocery Store	Shah, Hiral	2:40 PM	Voyageurs South
Varas, Matthew	Myoelectric Prosthetic Hand	Hou, Ling	11:00 AM	Ballroom
Veerlapati, Prasanna kumar	Workplace Organization of Service Area in an Automotive Repair Facility using 5S Methodology	Shah, Hiral	2:00 PM	Voyageurs South
Vidigal, Gaudencio	Forensic Investigation of Stolen Files and Private Browsing.	Schmidt, Mark	1:15 PM	Voyageurs South
Vogel, Amanda	Student-Led and Live Supervised Group Experience for Leadership Development	Guo, Yuh-Jen	8:30 AM	Ballroom
Vogl, Summer	Progressive Era Teaching	Galler, Robert	12:00 PM	Alumni
Vuong, Nghi	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Waalén, Brandon	Hexapod Robot Controller	Glazos, Michael	1:30 PM	Ballroom
Walcome, Alectra	High School Graduation Rates Analysis	Robinson, David; Ernst, Michael; Lihinikadu Arachchige, Nadeesha	2:00 PM	Alumni
Wan, Yijing	Improving the Efficiency of Production Process at Subway	Shah, Hiral	12:30 PM	Alumni
Wang, Lina	Chronic Exposure of Fathead Minnows to a Complex Urban Mixture	Schoenfuss, Heiko; Ward, Jessica	1:10 PM	Alumni

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Student Name	Project Title	Sponsor(s)	Time	Room
Wang, Tim	Pathway into Darkness	Gorcica, William; Gill, Mark	11:00 AM	Ballroom
Warzecha, Daniel	Room Mapping Robot Swarm	Petzold, Mark	1:30 PM	Ballroom
Watson, Joe	Examination of sleep deprivation and its impact on susceptibility to false memory	Hemmesch Breaker, Amanda	11:00 AM	Ballroom
Wegener, Madilyne	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Wellumson, Sarah	Caterpillar Senior Design Project 2015-2016	Bekkala, Andrew	2:20 PM	Glacier North
Westphal, Jacob	Lepidium Sativum Supplementation, Growth and Organ Development in Male Sprague-Dawley Rats	Gazal, Oladele	11:40 AM	Alumni
Weyer, Jenifer	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Wieber, Kalie	Immunization Exemptions in Meeker County	Crane, Laurie; Scherer, Marcia	1:30 PM	Ballroom
Williams, Joe	Virtuoso	Twombly, Kristian	8:30 AM	Ballroom
Williams, Larry	Managed LED Lighting System	Vogt, Timothy	1:30 PM	Ballroom
Witthuhn, Jeffrey	{0,1}-Matrix-Vector Product Computations by Exploiting a Difference Method	Anda, Andrew	11:40 AM	Glacier South
Wolters, Felicia	Gender, Space and Empowerment of Women Hunters in Minnesota	John, Gareth	1:30 PM	Voyageurs North
Wood, Allison	Social Relationships, Disability Identity, and Quality of Life	Hemmesch Breaker, Amanda	11:00 AM	Ballroom
Wright, Briana	Business Consulting	Kirchoff, Barry; Ross, Karen	9:30 AM	Glacier North
Wuollet, Kristina	Wright County Public Health: Women, Infant, and Children (WIC) Vendor Assessment	Crane, Laurie; Huard, Randy	8:30 AM	Ballroom
Wyers, Jennifer	What is the Sedimentary Context for Bison Bone Discovery at Lake Victoria, Minnesota?	Pound, Katherine	8:30 AM	Ballroom
Xiong, Chai	Electromagnetic Levitation System	Hou, Ling	8:30 AM	Ballroom
Xiong, Houa	Steganography in criminal activity	Schmidt, Mark	12:00 PM	Voyageurs South
Xiong, Ka Zoua	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom

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Student Name	Project Title	Sponsor(s)	Time	Room
Xu, Cheng	PAPR Reduction in General OFDM System	Yao, Aiping	11:00 AM	Ballroom
Yadessa, Henock	POV 3D Glove	Vogt, Timothy	1:30 PM	Ballroom
Yaga, Kranthi	Implementing an Inventory Management Solution at a Local Restaurant	Shah, Hiral	12:50 PM	Alumni
Yager-DeAustin, Kim	Stearns County Healthy Families of America Client Satisfaction Survey	Wilson, Roxanne	8:30 AM	Ballroom
Yang, Alexander	SOC 303 - SCSU spring survey highlights	Zerbib, Sandrine	11:40 AM	Voyageurs North
Yang, Douchi	Hmong Bilingual Paraprofessionals in the EL Classroom	Schwartz, Michael	1:30 PM	Ballroom
Yang, Lisa	Seeing and Using Visual Language	Christensen, Keith	11:00 AM	Ballroom
Yang, Matthew	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	11:00 AM	Ballroom
Yedula, Naresh	Implementing 5s Principles at a Local Grocery Store	Shah, Hiral	2:40 PM	Voyageurs South
Yimam, Menelik	Electrical Impedance Tomography Device for Soft Tissue Imaging	Zheng, Yi	8:20 AM	Voyageurs South
Yusuf, Mahmoud	Electrical Impedance Tomography Device for Soft Tissue Imaging	Zheng, Yi	8:20 AM	Voyageurs South
Zeman, Adia	Facilitating Student Developed Sexual Assault Initiatives: A Practicum in Higher Education Administration	Imbra, Christine; Klapperich, Lori	8:30 AM	Ballroom
Zerfas, Hanna	Prevalence and Proportionality of ELL Students in MN Special Education	Estrem, Theresa	8:30 AM	Ballroom
Zhang, YaNan	Electrostatic Spray Gun	Bekkala, Andrew; Kiviahde, Mark	8:00 AM	Voyageurs South
Zieglmeier, Katie	Developing SMART Kids in St. Cloud, MN	Branam Macauley, Kelly	1:30 PM	Ballroom
Zilberg, Steven	Why Muslim Youth Are Joining ISIS?	Zuo, Jiping	12:30 PM	Glacier South
Zwack, Heidi Linnea	Antecedents to Prostitution Among Women in a Small Midwestern City	Zuo, Jiping	12:50 PM	Glacier South

SPONSOR INDEX

College of Liberal Arts

Anthropology

<u>Sponsor Name</u>	<u>Student(s)</u>
Branam Macauley, Kelly	Ellenbaum, Jennifer; Douglas, Evan; Sargent, Ashley; Harstock, Spencer; Orsatti, Micah; Zieglmeier, Katie
Mann, Robbie	Corbin, Jonathan; Balsemo, Brianna; Reynolds, John
Schultz, Emily	Knutson, Rachael; Robinson, Madeline
Tornow, Matthew	Tchang, Michel

Communication Studies

<u>Sponsor Name</u>	<u>Student(s)</u>
Cummins, Molly	Fogarty, Gabe
Ross, Karen	Wright, Briana
Tuder, Jennifer	Mertz, Grace
Wells, Scott	Gahm, Noah

English

<u>Sponsor Name</u>	<u>Student(s)</u>
Cogdill, Sharon	Meagher, Jennifer; Kanthak, Margo
Kilborn, Judith	Kilbourn, Alyssa; Simon, Taylor; Van Dusen, Kimberly; Larson, Amanda; Noble, Kristi; Mathison, Emma; Jonas, Christian; Erickson, Nicholas; Ryan, Paul
Kim, Choonkyong	Byron, Kandice; Im, Hyebin; Carley, Samantha; Hermerding, Joshua; Simon, Akim; Alarcon, Ruth
Koffi, Ettien	Abat, Martina; Lundy, Casey; Mertz, Grace
Mohrbacher, Carol	Martinson, Mara; Rahman, Mohammad
Schwartz, Michael	Yang, Douchi

Ethnic and Womens Studies

<u>Sponsor Name</u>	<u>Student(s)</u>
Johnson, Robert	Reu, Songha; Blee, John; Kim, Hyeju

Global Studies

<u>Sponsor Name</u>	<u>Student(s)</u>
Blinnikov, Mikhail	Onwubuya, Sennami; Mundis, Angela; Grant, Nicole; Taw, Eh Ta; Tarr, Johnette; Bajracharya, Timila

History

<u>Sponsor Name</u>	<u>Student(s)</u>
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Eden, Jason

Rabbitt, Shaela

Galler, Robert

Vogl, Summer

Wingerd, Mary

Berg, Dylan; Ergen, Paul; Sternberg, Lance

Languages and Cultures

Sponsor Name

Student(s)

Mueller, Isolde

Stanishevskia, Taisiia; Bourgoïn, Ben; Kasper-Olson, Alec; Schmidt, Ben; Boggs, Lyndsey; DeLoera, Elizabeth; Teter, Michael

Psychology

Sponsor Name

Student(s)

Buswell, Brenda

Swenson, Elizabeth; Bates, Maria

Hemmesch Breaker, Amanda

Oluwagbemi, Oluwatobi; Kalk, Megan; Abdullah, Josefina; Kabore, Landry; Grewatz, Michael; Richardson, Chrishonda; Matson, Jordee; Stay, Karen; Watson, Joe; Wood, Allison; Filiyaro, Cedric

Illies, Jody

Noble, Kristi

Protolipac, Daren

Mathison, Emma

Sociology

Sponsor Name

Student(s)

Conlon, Bridget

Grewatz, Michael

Finan, Ann-Marie

Oluwagbemi, Oluwatobi; Kalk, Megan; Abdullah, Josefina; Kabore, Landry; Grewatz, Michael; Richardson, Chrishonda; Matson, Jordee; Stay, Karen; Filiyaro, Cedric

Panicker, Ajaykumar

Paul, Robbie

Zerbib, Sandrine

Oluwagbemi, Oluwatobi; Kalk, Megan; Abdullah, Josefina; Wegener, Madilyne; Bayerl, Raechell; Bushinger, Nicholas; Heo, Nayoung; Maalis, Nicole; Linhoff, Jessica; Malecek, Krystal; Marshall, George; Cherdnet, Dyrat; Bennis, Capree; Mire, Bayden; Yang, Alex

Zou, Jiping

Jacobs, Abby, Zilberg, Steven; Plachejo, Álvaro; Chapman, Alicia; Puch, Carly; Zwack, Heidi Linnea

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College of Science and Engineering

Biology

<u>Sponsor Name</u>	<u>Student(s)</u>
Arriagada, Jorge	Donahue, Laura; Jacobs, Kelly
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