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Student Research Colloquium Proceedings 2015

St Cloud State University

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PROCEEDINGS



STUDENT RESEARCH **COLLOQUIUM**

2015

TUESDAY, APRIL 21ST

ATWOOD MEMORIAL CENTER



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UNIVERSITY™

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ACKNOWLEDGEMENTS

18TH Annual Student Research Colloquium

Over 400 students presented their research or creative projects during this year's Student Research Colloquium. Sponsored by St. Cloud State University's Office of Academic Affairs, the colloquium is one of the largest events of its kind and is open to both undergraduate and graduate students. Patterned after professional conferences, the Student Research Colloquium encourages students to conduct authentic research and to contribute to the body of knowledge in their disciplines.

Formal Paper Competition

Papers submitted for the formal paper competition are judged on the following criteria: background, thesis, methodology, implications, organization, student's speaking skills, visual aids, effectiveness, and the student's ability to answer questions. Formal paper submissions of up to a 2,000 word narrative, not including references, were due by March 1st. Step two of the paper competition process involves having the student present their paper before a panel of judges at the Student Research Colloquium. This year, a total of seven papers were submitted in the competition. The best paper is awarded \$300. There are up to six honorable mention awards given at \$150 each.

The judges are as follows:

- Subba Moorthy, Professor, Department of Management
- Julie Nienaber, Applied Research in MedTech Industry, College of Science & Engineering
- Mary O'Dea, Assistant Professor, Emerging Technologies Librarian
- Kathy Johnson, Professor, Director of Confucius Institute

Poster Presentation Competition

There were 35 posters that were entered into the poster competition this year. A panel of judges from various disciplines evaluated the posters based on visual effectiveness, language appropriateness, originality, creativity, and content. The best poster presentation is awarded \$300. There are up to six honorable mention awards given at \$150 each.

The judges are as follows:

- Marina Cetkovic-Cvrlje, Professor, Biological Sciences
- Balsy Kasi, Professor, Environmental and Technological Studies
- Louise Millis, Associate Professor, Health Sciences
- Alexander Polacco, Instructor, Department of Management

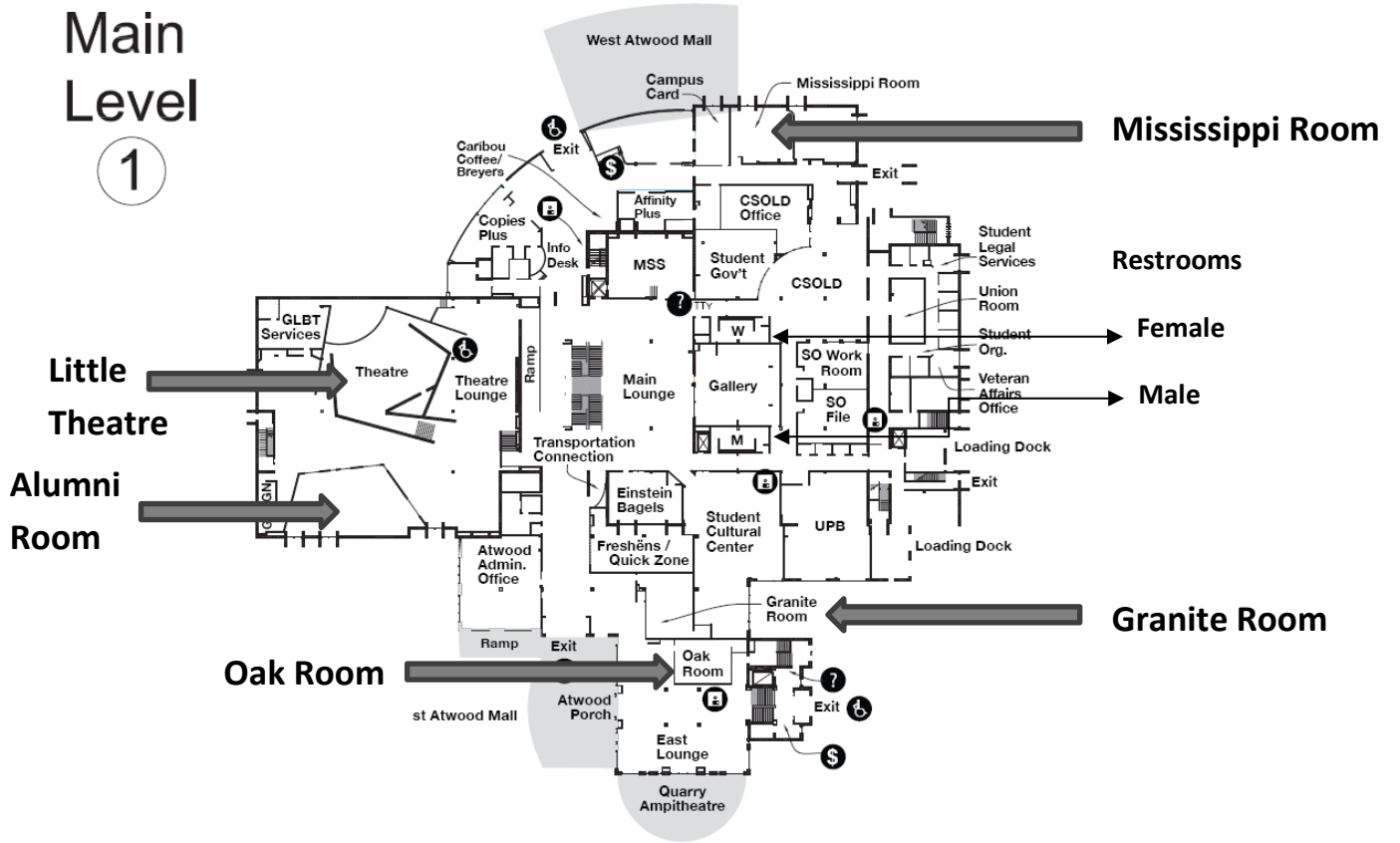
SCHEDULE OF EVENTS

Session	Event	Time	Room
Session A-C	Formal Papers I	8:00 AM - 9:15 AM	Cascade
Session A-G	Paper Presentation/Demonstration I	8:00 AM - 9:20 AM	Granite
Session A-GN	Paper Presentations I	8:00 AM - 9:20 AM	Glacier North
Session A-GS	Paper Presentations II	8:00 AM - 9:20 AM	Glacier South
Session A-VN	Paper Presentations III	8:00 AM - 9:20 AM	Voyageur North
Session A-VS	Paper Presentations IV	8:00 AM - 9:20 AM	Voyageur South
Session B-B	Poster Session I	9:00 AM - 10:30 AM	Ballroom
Session C-C	Formal Papers II	9:30 AM - 11:10 AM	Cascade
Session C-GN	Paper Presentations V	9:30 AM - 10:50 AM	Glacier North
Session C-GS	Paper Presentations VI	9:30 AM - 10:50 AM	Glacier South
Session C-VN	Paper Presentations VII	9:30 AM - 10:50 AM	Voyageur North
Session C-VS	Paper Presentations VIII	9:30 AM - 10:50 AM	Voyageur South
Session D-GN	Paper Presentations IX	11:00 AM - 12:20 PM	Glacier North
Session D-GS	Paper Presentations X	11:00 AM - 12:20 PM	Glacier South
Session D-VN	Paper Presentations XI	11:00 AM - 12:20 PM	Voyageur North
Session D-VS	Paper Presentations XII	11:00 AM - 12:20 PM	Voyageur South
Session E-C	Paper Presentations XIII	12:30 PM - 1:50 PM	Cascade
Session E-GN	Paper Presentations XIV	12:30 PM - 1:50 PM	Glacier North
Session E-GS	Paper Presentations XV	12:30 PM - 1:50 PM	Glacier South
Session E-VN	Paper Presentations XVI	12:30 PM - 1:50 PM	Voyageur North
Session E-VS	Paper Presentations XVII	12:30 PM - 1:50 PM	Voyageur South
Session F-B	Poster Session II	2:00 PM - 3:30 PM	Ballroom
Session F-C	Paper Presentations XVIII	2:00 PM - 3:20 PM	Granite
Session F-GN	Paper Presentations XIX	2:00 PM - 3:20 PM	Glacier North
Session F-GS	Paper Presentations XX	2:00 PM - 3:20 PM	Glacier South
Session F-VN	Paper Presentations XXI	2:00 PM - 3:20 PM	Voyageur North
Session F-VS	Paper Presentations XXII	2:00 PM - 3:20 PM	Voyageur South
Session G-C	Reception and Awards Ceremony	4:30 PM - 6:30 PM	Cascade

Floor Plan for Atwood Memorial Center

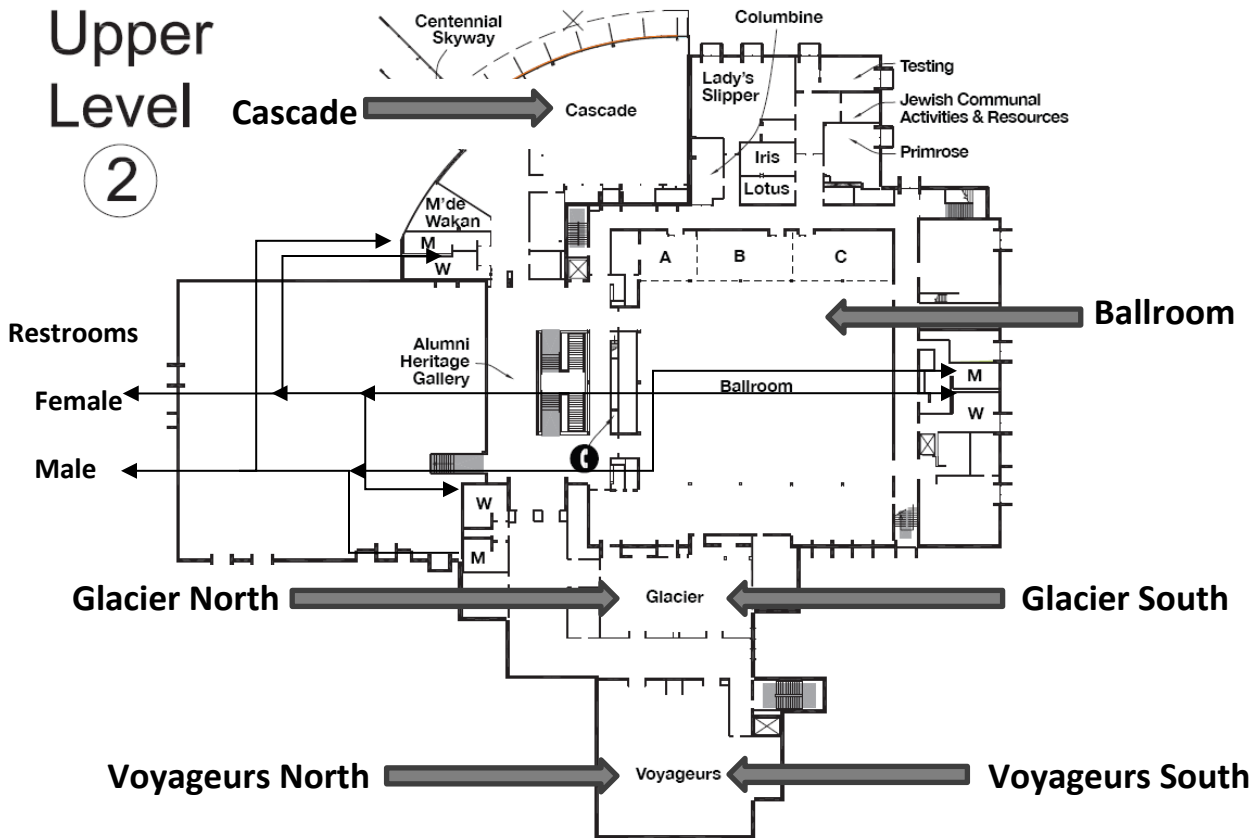
Main Level

1



Upper Level

2



STUDENT RESEARCH COLLOQUIUM PROGRAM

Session A-C Formal Papers I

Cascade

Moderator Carrie Barth, Assistant Director for Grants and Contracts

Time	Index	Presenter(s)	Project Title
8:00 AM	1	Keyworth, Paul	An Acoustic Phonetic Study on Lexical Stress Contrasts in Arabic and Mandarin-Accented English
8:25 AM	2	Goedeke, Amanda	Saint Margaret, Queen of Scotland, and the Benedictine Rule
8:50 AM	3	Kuiper, Jordan	National Scare? Diabetes and Organic Pollutants: A Persistent Problem

Session A-G Paper Presentation/Demonstration I

Granite

Moderator Jodi Kuznia, Director of Research Development

Time	Index	Presenter(s)	Project Title
8:20 AM	2	Bird, Kyle	Effects of Pharmaceutical Pollution on Predator Avoidance and Feeding Efficiency in Larval Fathead Minnows
8:40 AM	3	Gahm, Noah	Sex Education: An Oral Interpretation of Music

Session A-GN Paper Presentations I

Glacier North

Moderator Choon Kim, Associate Professor

Time	Index	Presenter(s)	Project Title
8:00 AM	1	Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen	35th Annual Spring Student Survey
8:40 AM	3	Delgado, Paula	Reciprocal Violence and Injuries in Couples in Arequipa, Peru
9:00 AM	4	Yusuf, Deqa	Yes or No Vocabulary Test

Session A-GS Paper Presentations II

Glacier South

Moderator Pamela Cesnik, Office Manager

Time	Index	Presenter(s)	Project Title
8:00 AM	1	Mackedanz, Austin	The Stock Market and Computing
8:20 AM	2	Foster, Joseph; Dillingham, Shawn	An Evolutionary Algorithm for the Job Shop Scheduling Problem
8:40 AM	3	Ivanova, Jelena	Statistical analysis of individual variability in fathead minnow populations exposed to endocrine disrupters
9:00 AM	4	Wegter, Brianne	Varied Experiences During the Progressive Era

STUDENT RESEARCH COLLOQUIUM PROGRAM

Session A-VN Paper Presentations III

Voyageur North

Moderator John Sinko, Assistant Professor

Time	Index	Presenter(s)	Project Title
8:00 AM	1	McDonough, Jonathan	A Survey of Organic Chemistry Students' Understanding of Models and Their Use in Atomic Theory
8:20 AM	2	Mollenhauer, Martin	Toward a Geographical Understanding of Minnesota's Status as the United States Leading Turkey Producer
8:40 AM	3	Wade, John	Characterization and Complexation of Alanine-Based Polymeric Nanoparticles with siRNA in <i>D. tigrina</i> Planarian Flatworms
9:00 AM	4	Westerhoff, Benjamin	Acute Toxicity Exposure of Nonylphenol Results in Dose Dependent Mortality to <i>Daphnia pulex</i>

Session A-VS Paper Presentations IV

Voyageur South

Moderator Debra Leigh, Professor

Time	Index	Presenter(s)	Project Title
8:00 AM	1	VanHeuveln, Nathaniel	The Effect of Mortality Salience on Belief in a Just World and Deservingness
8:20 AM	2	Wisbar, Megan	A Qualitative Case Study of the Teacher's Perspective of Challenges, Resources, and Strategies for Serving English Language Learners at an Early Childhood Education Center
8:40 AM	3	Paul, Robbie	Community Anti-Racism Education Initiative Findings
9:00 AM	4	Lundy, Casey	The Acoustics of word-final /z/ in Central Minnesotan Speech

Session B-B Poster Session I

Ballroom

Moderator Caitlin Lindsay, Greek Life GA

Time	Index	Presenter(s)	Project Title
9:00 AM	1	Alama, Carolyn; Dougherty, Lauren; Hanley, Stephanie; Martin, Amanda; Oestreich, Jennifer; Olson Glimsdal, Kaitlin; Olson, Whitney; Rausch, Sara; Swenson, Tessa; Abuhadid, Thaer	Kandiyohi County Bike/Walk Survey
9:00 AM	2	Ericson, Samantha; Tackett, Emma; Stibal, Lindsay; Tulenchik, Nicole; Emery, Taylor; Gupta, Rachel; Lukach, Jaren; Korneck, Kayla; Evuleocha, Kimberly; Albers, Sheila	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County
9:00 AM	3	Klein, Benjamin; Nguyen, Kathy; Dwyer, Angela; Heine, Anna; Cardinal, Jacob; Boser, Gabrielle; Schwartz, Ellen; Gullickson, Kelsey; Gallus, Jennifer; Griswold, Mellinda	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County

STUDENT RESEARCH COLLOQUIUM PROGRAM

9:00 AM	4	Haggerty, Cassandra; Turck, Amanda; Fliehr, Kathryn; Rice Epsky, Linnea; Lawhorne, Lexis; Christensen, Michelle; Eggert, Emily; Quernemoen, Riika; Metcalf, Craig; Lehnen, Megan; Stefely, Elizabeth; Grundahl, Amy	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County
9:00 AM	5	Balsemo, Brianna; Vogt, Cassandra; Pasek, Katrina	You Can Tell It's a Lithic Because of the Way That It Is: A Lithic Analysis of the Little Elk River Mission Site
9:00 AM	6	Bice, Haley	Senior Thesis
9:00 AM	7	Beckermann, Cassandra	Social Media as it pertains to meteorology
9:00 AM	8	Arcand, Samuel	North Shore Orographically Forced Snow
9:00 AM	9	Andersen, Ashley	Engagement of Women in STEM
9:00 AM	10	Gohman, Markie	An Investigation into whether Faculty vs. Student-led Research Results in Unintended Coercion
9:00 AM	11	Ponce Diaz, Mariana	First Generation Students of Color Transition to College
9:00 AM	12	Schlagel, Leah	Student Athlete Career Services Survey
9:00 AM	13	Thompson, Bruce	Effective Recruitment Plan for Admissions and Athletics
9:00 AM	14	Triplett, Rebecca	Quantitative Analysis of Student Perceptions Regarding Sexual Assaults
9:00 AM	15	Visser, Lukas	How the University Honors Program Can Enhance the International Experience
9:00 AM	16	Wiesen, Kristen	Flipped Group Advising Session
9:00 AM	17	Fabre, Ahmed	Community engagement and outreach
9:00 AM	18	Gjorgieva, Nadica	Combined orientation for international and domestic students
9:00 AM	19	Lisowe, Pamela	Community Service Involvement Outreach in St Cloud State University Athletics
9:00 AM	20	Martinson, Tashina	The Power of Collaboration to Promote Disability Awareness Month at St. Cloud State University
9:00 AM	21	Johannes, Bridget; Kruger, Matthew	Lawn Maintenance Survey of Homeowners in the St. Cloud, MN Metro Area
9:00 AM	22	George, Rebecca	Spatial patterns of distance runners
9:00 AM	23	Hussein, Sahur	Prevalence of Pulmonary Tuberculosis among the Somali population in Minnesota
9:00 AM	24	Kahler, Kristine	Community Action Council Crow Wing County; Website, Statements, Community Center
9:00 AM	25	Lindsey, Kelli	Correlation Between Densities of Children and Housing Values
9:00 AM	26	Oden, Carrie	Growth of Sex Trafficking in Nepal in India
9:00 AM	27	Seifert, Matthew	Local-Scale Factors Affecting the Geography of Buckthorn Invasion in Central Minnesota

STUDENT RESEARCH COLLOQUIUM PROGRAM

9:00 AM	28	Slind, Matthew	Social Injustice: The Exploitation of Undocumented Latino Workers
9:00 AM	29	Smith-Nordquist, Michael	Moose Population Decline in Northern Minnesota
9:00 AM	30	Wilson, Madeline	The Modern Feminist Movement in the Mainstream Media.
9:00 AM	31	Arbogast, Amanda	Retrieval Inhibition At Different Ages
9:00 AM	32	Aspinwall, Casandra	Memory and Impression Management of Resumes
9:00 AM	33	Cusick, James	Dual Coding in Spatial Memory
9:00 AM	34	Hanmer, Audrey	Gender Differences in Episodic Memory
9:00 AM	35	Hess, Travis	False Memory in Witness Testimony
9:00 AM	36	Miska, Jennifer; Jones, Kelly	Values, Creativity, & Leadership
9:00 AM	37	Ghebru, Kibreab	Annotation of the Histidine Biosynthetic Pathway of Salmonella enterica
9:00 AM	38	Nusbaum, Patrick	Stuck In My Head: Musical False Memory
9:00 AM	39	Ocariz-Elsen, Javier	Coping with memory loss in Alzheimer's Disease
9:00 AM	40	Ohlemann, Erin	Children's Memory For Routine Behavior: What Helps and What Hinders?
9:00 AM	41	Peterson, Robyn	Optimism, Pessimism, Environmental Attitudes and Environmental Behaviors
9:00 AM	42	Richter, Devon	Connection between Down Syndrome and Dementia
9:00 AM	43	Robinson, Renard	Learning Cultural Norms
9:00 AM	44	Vang, Miamoua	Early Bird or Night Owl? : How the Internal Clock Effects Metamemory
9:00 AM	45	Eschrich, Alyssa	Wolf Regulation in Minnesota
9:00 AM	46	Junggeburth, Miriam	An investigation into the knowledge, opinions and behaviors of university students in regard to genetically modified foods.
9:00 AM	47	Preusser, Samantha	Journey to Heal
9:00 AM	48	Bloch, Sarah	Prospective Reduction of Gamma-Crystallin Protein Aggregates By Disulfide Bond Forming Enzyme
9:00 AM	49	Omar, Faisal; Dreher, Benjamin	Concentration units in the chemical literature: molality is missing.
9:00 AM	50	Hopfner, Sarah	Design and Synthesis of a Novel Indanone Chemotherapeutic Agent
9:00 AM	51	Huang, Shiyao	Synthesis and characterization of modified pol(vinyl alcohol)
9:00 AM	52	Jagannathan, Shruti	Analyzing the Pharmacological Effects of Picrotoxin in Regenerating and Intact Dugesia Tigrina (Planaria) Worms
9:00 AM	53	Meyer, Scott	Development of a Quantum Mechanics Lab to Assist and Assess Student Learning and Understanding

STUDENT RESEARCH COLLOQUIUM PROGRAM

9:00 AM	54	Wade, John	Characterization and Complexation of Alanine-Based Polymeric Nanoparticles with siRNA in <i>D. tigrina</i> Planarian Flatworms
9:00 AM	55	Hennagir, Seth; Whaylen, Chad	Determination of Charge Carrier Mobility in Polyacene Derivatives
9:00 AM	56	Bruner, Kylie; Schmit, Taylor	Effects of PCB-153 on Immune T-cells in Experimental Type 1 Diabetes Mouse Model
9:00 AM	57	Floren, Melissa; Pravdica, Cecilie	Effects of PCB-153 Exposure on Leukocyte Populations in NOD Mice
9:00 AM	58	Moran, Michelle; Bisping, Ashley; Byers, Amanda; Pung, Gabriella	The Effect of Exposure to PCB-153 on Insulinitis Index in NOD Mice
9:00 AM	59	Notch, Scott; Hinkemeyer, Kyle; Baqaar, Mohammed	Robot Swarm for Managing Inventory
9:00 AM	60	Notch, Scott; Muench, William; Corgard, David	Optical Pressure Detection of a Gaseous Medium
9:00 AM	61	Watts, Calvin	Understanding Ferguson at St. Cloud State University
9:00 AM	62	Bloch, Maria	Variation of the Center of Gravity of Palatal Sibilant [ʃ] across Vowels
9:00 AM	63	Meyer, Hannah	"It's On Us"-Exploring Bystander Intervention
9:00 AM	64	Hartog, Laura	Leadership Development for Student Club/Organization Leaders
9:00 AM	65	Clendenen, Christopher	Motivational Interviewing
9:00 AM	66	Sperl, Taylor; Azer, Rami; Xue, Song	House energy monitoring system
9:00 AM	67	Pelowski, Walter; Koch, Jacob; Severson, Mitchell	Transversely Excited Atmospheric-pressure CO ₂ Pulsed Gas Laser
9:00 AM	68	Aslam, Fakiha	The Histidine Biosynthetic pathway in <i>Neisseria meningitidis</i>
9:00 AM	69	Funk, Scott	Flashbulb Memories
9:00 AM	70	Guasp, Sarah	Metamemory for Emotional Facial Expressions
9:00 AM	71	Gold, Corina	The Acoustics of [m] in Various Vowel Contexts
9:00 AM	72	Waldin, Alexis	Transfer of Stimulus Control of Toileting Behavior with Somali Male
9:00 AM	73	Hutter, Emily	An Evaluation of the Reinforcing Efficacy of General Praise and Behavior-Specific Praise in Typically Developing Preschool Children
9:00 AM	74	Arief, Nyimas	A Comparison of the Reinforcing Effectiveness of Different Types of Attention on Skill Acquisition in Typically Developing Preschool Children
9:00 AM	75	Erdahl, Thomas	Recidivism Analytics
9:00 AM	76	Moriarity, Kaitlyn	Societal Pressure and Gender: How does it Impact Weight Loss Attempts

STUDENT RESEARCH COLLOQUIUM PROGRAM

Session C-C Formal Papers II

Cascade

Moderator Carrie Barth, Assistant Director for Grants and Contracts

Time	Index	Presenter(s)	Project Title
9:30 AM	1	Thinamany, Sinduja	The effects of Bisphenol A (BPA), persistent organic pollutant, on the incidence of type 1 diabetes in two experimental mouse models.
9:55 AM	2	Hopfner, Sarah	Design and Synthesis of a Novel Indanone Chemotherapeutic Agent
10:20 AM	3	Cox, Megan	Contaminants of Emerging Concern: Does Effluent Temperature Modulate Estrogenic Effects on Larval Behavior?
10:45 AM	4	Marrone, Alexandria	Rhetorical Analysis of the Social and Discursive Constructs that Perpetuate the Marginalization of English Language Learners

Session C-GN Paper Presentations V

Glacier North

Moderator Stephen Phillion, Associate Professor

Time	Index	Presenter(s)	Project Title
9:30 AM	1	Kostka, Clarissa; Williams, Alisha	Social Practice and Policy
9:50 AM	2	Gilbert, Samuel	Income Inequality Among Mexican Immigrants
10:05 AM	3	Van Dort, Leoma	Globalization and the Political Economy of Urban Development: A Case Study of Colombo, Sri Lanka
10:20 AM	4	Orsatti, Micah	Globalization and Marx
10:35 AM	5	Hassan, Amal	Sociologically Theorizing Inequality as Experienced by Somali Women in Somalia

Session C-GS Paper Presentations VI

Glacier South

Moderator Robert Galler, Professor

Time	Index	Presenter(s)	Project Title
9:30 AM	1	Burgett, Alyssa	Debunking common misconceptions of the people in the 1920's
9:45 AM	2	Graham, Matthew	Myths of the Battle of Britain
10:00 AM	3	Nguyen, Ryan	Exclusion or Inclusion, How Writing about History Changes It
10:15 AM	4	Moran, Jocelynn	Multiple Perspectives of the American Industrial Period
10:30 AM	5	Harlander, Adam; Luis, Jessica	Development of the 1920s

STUDENT RESEARCH COLLOQUIUM PROGRAM

Session C-VN Paper Presentations VII

Voyageur North

Moderator John Sinko, Assistant Professor

Time	Index	Presenter(s)	Project Title
9:30 AM	1	Solberg, Clarinda	Retention and Graduation: SCSU Complete Degree Completion Program
9:50 AM	2	Phillippi, James	Examining the Polish Heritage and Identity of Columbia Heights: A Study in Ethnic Place-Making in Minnesota
10:10 AM	3	Jensen, Brikken	The Progression of 911
10:30 AM	4	Watson, Joseph	Sleep and False Memories

Session C-VS Paper Presentations VIII

Voyageur South

Moderator Mark Schmidt, Professor

Time	Index	Presenter(s)	Project Title
9:30 AM	1	Sanchez, Andrea; Sherpa, Ang	Resolution of a Computer Criminal Case
9:45 AM	2	Savadogo, Fabrice; Pun, Raj; Samu, Farouk	A Holistic Approach To Investigating Network Intrusion Using Incident Repsonse
10:00 AM	3	Vaidya, Ananta; Phuyal, Sandip	Investigation with Digital Forensic Tool of USS Benfold movement leakage
10:15 AM	4	Korre, Mahender; Annangi, Hari Krishna	Theft at jewellery store
10:30 AM	5	Vue, Steven	Gone Phishing: Surveying college students on phishing awareness and competency.

Session D-GN Paper Presentations IX

Glacier North

Moderator Mark Schmidt, Professor

Time	Index	Presenter(s)	Project Title
11:00 AM	1	Chintoju, Savanth; Manchikatla, Swarna	An Enterprise Fraud Case
11:20 AM	2	Kotha, Veenadhari; Singh, Usha Rani	Digital Forensics Final Project
11:35 AM	3	Benusa, Allen; Jeganathan, Shajive	Shift from HDD to SSD storage present forensic analysis challenges.
11:50 AM	4	Dandu, Sujitha; Veerannagari, Sai Shruthi	Digital Forensics final project
12:05 PM	5	Pulugurta, Sreevidya; Naini, Rishitha	Digital Forensic Final Project

Session D-GS Paper Presentations X

Glacier South

Moderator Robert Galler, Professor

Time	Index	Presenter(s)	Project Title
11:00 AM	1	Wolvington, Cherisse	Perspectives in World War I
11:15 AM	2	Zander, Elliot	Teaching about Native American's Experience in late 19th Century America

STUDENT RESEARCH COLLOQUIUM PROGRAM

11:30 AM	3	Theis, Katie; Devine, Melanie	Multiple Perspectives on WWII
11:45 AM	4	Johnson, Carley; Boyle, Jenna	Multiple Perspectives of the 1930's
12:00 PM	5	Crafton, Jessica; Terwey, Sarah	Varied Protrayals of Early 20th Century American Experiences

Session D-VN Paper Presentations XI Voyageur North

Moderator David Switzer, Associate Professor

Time	Index	Presenter(s)	Project Title
11:00 AM	1	Williams, Andrew	Characteristics of High Schools That Contribute to Future Success
11:20 AM	2	Kroiss, Matthew	The effects of family characteristics on student performance
11:40 AM	3	Steinbring, Chase	Happiness and Productivity in the United States
12:00 PM	4	Wipper, Drayton	The effect of Military Service on the standard of living

Session D-VS Paper Presentations XII Voyageur South

Moderator Marion Rengel, Public Programming and Grants Coordinator

Time	Index	Presenter(s)	Project Title
11:00 AM	1	Goulet, Courtney	A Survey of the Effects of Common Pollutants on Hawaiian Fishes
11:20 AM	2	Hiner, Charles	Discourses of Decline: An Analysis of the Geographical Transformation of the Motor City
11:40 AM	3	Larson, Christopher	Effects of Fetal Alcohol Spectrum Disorder on Memory
12:00 PM	4	Paul, Robbie	Mate Selection in the Millennial Generation - Paradox or Paradigm

Session E-C Paper Presentations XIII Cascade

Moderator Melanie Guentzel, Director of Graduate Student Services

Time	Index	Presenter(s)	Project Title
12:30 PM	1	Olean, Laura; Klahr, Rachael	Comparing Stress Across Individuals: A Psychophysical Measure of Stress
12:50 PM	2	Gorman, David	Detection and Characterization of Polychlorinated Biphenyl Mixtures Combining Enhanced Photo Luminescence and Chemometric Techniques
1:10 PM	3	Hendrickson, Daniel; Smith, William	Watchdogs: Hacking Wi-Fi with a Mobile Phone

Session E-GN Paper Presentations XIV Glacier North

Moderator Mark Schmidt, Professor

Time	Index	Presenter(s)	Project Title
12:30 PM	1	Engels, Michael	Forensic information gathering on solid state devices

STUDENT RESEARCH COLLOQUIUM PROGRAM

12:50 PM	2	Alward, Redwan; Guley, Insel	Fictitious Computer Crime
1:05 PM	3	Maharjan, Arbin; Malla, Minesh	Forensics Investigation of Digital Evidence
1:20 PM	4	Maddipati, Babu Rajeev; Mittal, Anirudh	Crime Investigation of a mysterious murder using computer forensics
1:35 PM	5	Veeravelli, Rahul; Gajagauni, Vamshi Krishna	Forensic Investigation Report on Bank Robbery

Session E-GS Paper Presentations XV

Glacier South

Moderator Maureen O'Brien, Associate Professor

Time	Index	Presenter(s)	Project Title
12:30 PM	1	Thein, Peter	Of Heroes and Villains: Interpretations of the American West
12:50 PM	2	Youn, Jonghee	Implementation of Extensive Reading in a Regular Korean High School context
1:10 PM	3	Koshowany-Wilken, Samantha	St. Marina: A Lesson in Spiritual Endurance
1:30 PM	4	Harvey, Samuel	Methodology of the Elusive Entity in an Autieblog

Session E-VN Paper Presentations XVI

Voyageur North

Moderator Linda Donnay, Director of Compliance and Ethics

Time	Index	Presenter(s)	Project Title
12:30 PM	1	Peine, Courtney; Moren, Tod; Iduoku, Kweeni; Grangroth, Charles; Torfin, Blake	SAE Aero Design West
12:50 PM	2	Fisher, Ethan; Wills, Robert; Bryson, Alex	Induction Workstation Automation
1:10 PM	3	Pan, Jiayin	How does study in US shape Chinese students' life decisions in future?
1:30 PM	4	Anderson, Katherine	Stop Trying to Change Me

Session E-VS Paper Presentations XVII

Voyageur South

Moderator Michael Schwartz, IEC Director/Assistant Professor

Time	Index	Presenter(s)	Project Title
12:30 PM	1	Herne, Emily; Schwartz, Hannah; Matson, Jordee; Abdullah, Josefina; Gebriel, Luna; Zweber, Sarah; Boutain, Troy; Domeier, Danielle	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data
12:50 PM	2	Olson, Robert; Dobmeier, Alexander; Schaefer, Kent; Kelly, Andrew; Thomalla, Steven; Greenwaldt, Tyler	Miller Electric Senior Design Project
1:10 PM	3	Rahman, Mohammad	Reflection on Representation of English
1:30 PM	4	Mok, Hwakyun (Moka)	Changing identities from speaking Korean to speaking English while studying abroad

STUDENT RESEARCH COLLOQUIUM PROGRAM

Session F-B		Poster Session II		Ballroom
Moderator Caitlin Lindsay, Greek Life GA				
Time	Index	Presenter(s)	Project Title	
2:00 PM	1	Ackman, Ian	Lithologic, Petrologic, and Geochemical investigation of the lower Lake Vermilion Formation	
2:00 PM	2	Barnes, Blake	Enzymatic Activity of TgCDK1 Binding of TgCYC2 in <i>Toxoplasma gondii</i>	
2:00 PM	3	Bio Sawe, Waidath	Investigation of the role of SMURF on PGC1 α	
2:00 PM	4	Bottelberghe, Jacob; Leonhard, Jenna	Identification of the Human Protein Smurf1 as Novel Therapeutic Target for the Treatment of Parkinson's and/or Huntington's Disease	
2:00 PM	5	Bottelberghe, Jacob; Fogarty, Stuart	The Human Protein SMURF1 as a Possible Regulator of PGC-1 α and a Possible Target for the Treatment of Parkinson's Disease	
2:00 PM	6	Boyd-Lecky, Braimah; Brown, Monet	You Really are What You Eat	
2:00 PM	7	Buschette, Mariah; Hageman, Benjamin	Investigation of the Regulation of the Human Protein PGC-1 α and its Implication for the Treatment of Human Disease	
2:00 PM	8	Gorecki, Alicen; Miller, Matthew; Ebinger, Eryn	The Effect of PCB-153 on the Incidence of Type 1 Diabetes in an NOD Mouse Model	
2:00 PM	9	Ellis, Tia	I Made This In Milk	
2:00 PM	10	Kelm, Noah	Annotation of the Histidine Biosynthetic Pathway of <i>Haemophilus influenzae</i>	
2:00 PM	11	Kipping, K.C.	Identification of <i>Salmonella enterica</i> transcriptional and physiological changes induced by desiccation and thermal stress in an inert dry matrix	
2:00 PM	12	Martin, Rene	Evolution of Jaws and Ecological Niche Specialization in Deep-sea Lanternfish	
2:00 PM	13	Zimmer, Brinna	Annotation of the Histidine Biosynthetic Pathway of <i>Starkeya novella</i>	
2:00 PM	14	Aryal, Sumedha	Diffusion dynamics of drug molecules from hydrogel matrix	
2:00 PM	15	Linn, Cassandra	Functional Polymer and Supramolecular Material from Hemiporphyrine Derivatives	
2:00 PM	16	Preusser, Richard	Characterization of Smart Materials	
2:00 PM	17	Vang, Tee	3,5-Bis(benzylidene)-4-piperdone and its dichloroacetate ester: a potent cytotoxins with multiple site of action	
2:00 PM	18	Halbur, Mary	An Evaluation of Children's Preferences for Types of Attention Across Different Adults	
2:00 PM	19	Hinkemeyer, Keli	The Use of Positive Reinforcement as Subtle Cues in Counseling Sessions	

STUDENT RESEARCH COLLOQUIUM PROGRAM

2:00 PM	20	Linn, Trista	Extinction and Reinstatement of Side Preference in the Madagascar Hissing Cockroach <i>Gromphadorhina portentosa</i>
2:00 PM	21	Stangel, Amanda	Subjective Analysis of Male's Perceptions on their Mental Health
2:00 PM	22	Boeckermann, Cameron	A comparison between the U.S. and Russia's health and human services
2:00 PM	23	Forar, Christian	Geographic analysis of leading causes of Whitetail Deer mortality in Minnesota
2:00 PM	24	Cullen, Emily	Costa Rica; Nature Tourism in a Globalized World
2:00 PM	25	Deason, Nicolette	A comparison of commercial airlines' representation with passengers' perception of their environmental footprint.
2:00 PM	26	Friday, Daniel	Vikings and Victims
2:00 PM	27	Hannes, Henry	Hugo Chavez: Reducing Poverty in Venezuela with the Venezuelan Oil Industry
2:00 PM	28	Huggett, Samantha	Fire Spread and Landscape Change in Pagami Creek (BWCAW)
2:00 PM	29	Kelzenberg, Allie	The Effects of Studying Abroad in College and its Relation to International Employment
2:00 PM	30	Nitta, Arisa	Changing in children health in USA and Japan influenced by globalization
2:00 PM	31	Trottier, Stephanie	Accepted to the University, Not the Community: Experiences of Saudi ESL Students in St. Cloud, MN
2:00 PM	32	Wilson, Michael	WWOOF Tourism in the Upper Midwest
2:00 PM	33	Corgard, David; Gilyard, Dustin; Ingvarsson, Travis	Ballistics on a Hill: Shooting high or low?
2:00 PM	34	Gaffney, Maria	Analysis of Thermospheric Wind Measurements Taken from SCSU
2:00 PM	35	Gaffney, Maria	Optical Analysis of Smart Materials for Solar Energy Conversion
2:00 PM	36	Schwieters, Rita; Kunkel, Anthony; Harter, Joseph	Degenerate Four-Wave Mixing
2:00 PM	37	Johnson, Ashley	Social Support and Stigma in disability and chronic illness
2:00 PM	38	Rooker, Jeremy	Memory and Attention Deficit Hyperactivity Disorder in Children
2:00 PM	39	Vang, Miamoua	The Relationship of Generation Status and Cultural Identity on the Perception of Stress and Subjective Well-being
2:00 PM	40	Dingmann, Zachary	Invasive Asian Carp
2:00 PM	41	Lee, Jason	SCSU Students' Knowledge, Beliefs, and Opinions regarding Nuclear Energy
2:00 PM	42	Quintavalle, Ashley	An investigation into the knowledge, opinions, and behaviors of university students in regards to vaccines

STUDENT RESEARCH COLLOQUIUM PROGRAM

2:00 PM	43	Sweeney, James	Plasma Temperature Analysis through Spectroscopy and Interferometry
2:00 PM	44	Platt, Katy; Pribula, Connor	Synthesis of the Natural Product Costunolide
2:00 PM	45	McCourt, Preston	Annotation of the Histidine Biosynthetic Pathway of <i>Pseudomonas fulva</i>
2:00 PM	46	Theisen, Hannah	Annotation of the Histidine Biosynthetic Pathway of <i>Ustilago maydis</i>
2:00 PM	47	Gold, Corina; Clendenen, Christopher; Heilig, Leah	Small Steps to Success
2:00 PM	48	Ryan, Paul; Heilig, Leah; O'Bryan, Taylor	Veterans Data
2:00 PM	49	Kuhn, Carol; Heilig, Leah; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles	The Write Place: Building Better Writers, Not Just Better Writing
2:00 PM	50	Heilig, Leah; Bjerkness, Troy; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton	Health of the Student Population
2:00 PM	51	Yang, Matthew; Sui, Xinyue; Pederson, Michael; Chu, Michael; Jedynak, Maija; Diong, S; Pant, Anna; Stumpf, Noelle; Vang, Duha	Isolation of Antimicrobial Compounds from Bacteria
2:00 PM	52	Highley, Kumiko	Genetic Component to Mate Choice Copying in <i>Poecilia reticulata</i> and <i>Poecilia latipinna</i>
2:00 PM	53	Knauber, Brenda	Mathematical Modeling for Fractional Kinetics
2:00 PM	54	McDonald, Jessica	Analyzing Thunderstorm Parameters Using Stereo Photogrammetry
2:00 PM	55	Piersak, Matthew	Unwelcome Tourists: The Spread of Aquatic Invasive Species
2:00 PM	56	Sui, Xinyue	Annotation of the histidine biosynthetic pathway of genus species
2:00 PM	57	Buoy, Amanda	Annotation of the Histidine Biosynthetic Pathway of Halophilic archaeon
2:00 PM	58	Notch, Jennifer; Blomker, Jacquelin	Effects of Emerging Pollutants on Larval Fish Succession
2:00 PM	59	Wolfe, Ryan	Gene Knockout Mutations of <i>Salmonella enterica</i>
2:00 PM	60	Schroden, Heidi	Moose Management in Minnesota
2:00 PM	61	Grinsteinner, Michael	Synthesis of 1,2,7,8-tetracyanocarbazoles to create a novel ring system
2:00 PM	62	Egbert, Maxwell	The Effects of Demographics and Experience on Self-Confidence and Success During Examinations in an Undergraduate General Chemistry Class.
2:00 PM	63	Eckhoff, Paul	Annotation of the Histidine Biosynthetic Pathway of <i>Aeropyrum pernix</i>
2:00 PM	64	Radmanesh, Azadeh	A Study Of The Adjustment Of International Graduate Students At American Universities

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2:00 PM	65	Stoppel, Natalie; Mueller, Tiffany; Aguilar, Gavriella; Valentine, Anthony; Ellig, Jonathan; Lindquist, BrieAnna; Eliszewski, Daniel	The Journey Never Ends, the River Simply Bends
2:00 PM	66	Guzy, Andrea	Attitudes Towards Minnesota Weather and Climate
2:00 PM	67	Cornelius, Ryan	Microwave Spectroscopy and the CO ₂ -Difluoropyridine Complex
2:00 PM	68	Powell, Jonathan	Freight Transportation Routes in Central Minnesota

Session F-C Paper Presentations XVIII Granite

Moderator David Robinson, Professor

Time	Index	Presenter(s)	Project Title
2:00 PM	1	Olson, Carrie; Williams, Andrew; Sultana, Afreen; Terazzi Basso, Marcia	Predicting the Duration of Stay in Jail
2:20 PM	2	Erdahl, Thomas; Braaten, Bridgett; Kaneza, Kelly Marvine	Criminal Justice Analytics
2:40 PM	3	Olson, Andrew; Ragone, Zachary	Analysis of BCA Data
3:00 PM	4	Satchivi, Tatiana Alma; Cai, Wenting	Merging BCA Data with Stearns County Jail Data

Session F-GN Paper Presentations XIX Glacier North

Moderator Mark Schmidt, Professor

Time	Index	Presenter(s)	Project Title
2:00 PM	1	Sultana, Afreen; Etikala, Punith Reddy	Crime detection over flash drives using digital forensics
2:20 PM	2	Kastury, Ashish; Bondili, Naga Sandeep	Mr. Insider
2:35 PM	3	Withanage, Chandira; Herath, Isuru	Digital Forensics with Kali Linux
2:50 PM	4	Ponakala, Venkata; Paidi, Karthik	Mr. Pizza Boy

Session F-GS Paper Presentations XX Glacier South

Moderator Pamela Cesnik, Office Manager

Time	Index	Presenter(s)	Project Title
2:00 PM	1	Bonsu, Osei; Cannon, Tameka; Xiong, Kia	The transformation of payments through technology
2:20 PM	2	Danielson, Cody; Hauglid, Michael	Implementation and Application of Genetic Algorithms
2:40 PM	3	Saka, Akeem	Cheap Labor
3:00 PM	4	Xiong, Houa	Circulation Resources

STUDENT RESEARCH COLLOQUIUM PROGRAM

Session F-VN Paper Presentations XXI

Voyageur North

Moderator David Switzer, Associate Professor

Time	Index	Presenter(s)	Project Title
2:00 PM	1	Heilig, Leah	#Polis: Virtual Communities as Civic Spaces
2:20 PM	2	Her, Alynda	Economic Analysis of Market Share and Market Growth: Determinants in Advertising Sales Ratios
2:40 PM	3	Miller, Brian	The Impact Successful NFL Franchises Have on Their Respective Metropolitan Area GDP and Employment.
3:00 PM	4	Johnson, Christopher	Economic and governmental determinants of bank failures

Session F-VS Paper Presentations XXII

Voyageur South

Moderator Sarah Petitto, Associate Professor

Time	Index	Presenter(s)	Project Title
2:00 PM	1	Azo, Loris	Does Estrogenic Exposure Alter Swimming Behavior and Increase Vulnerability of Larval Fathead Minnows?
2:20 PM	2	Johannes, Bridget; Kruger, Matthew; Nipp, Alexander	Soil Fertility Status of Lawns in the St. Cloud, MN Metro Area
2:40 PM	3	Dempsey, Joseph; Scott, Ne'Angela; Gilbertson, Lindsay	Everything Counts: Improving the College Experience
3:00 PM	4	Bertram, Riley; Fischer, Kelsey	Physiological Changes in Male Bluegills Following Estrogen Exposure

Session G-C Reception and Awards Ceremony

Cascade

Moderator Patricia Hughes, Interim Associate Provost for Research and Dean of Graduate Studies

Time	Index	Presenter(s)	Project Title
4:30 PM	1		Reception
5:00 PM	2		Awards Ceremony

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Abdullah, Josefina	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
Abuhadid, Thaeer	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Ackman, Ian	Lithologic, Petrologic, and Geochemical investigation of the lower Lake Vermilion Formation	Pound, Katherine	2:00 PM	Ballroom
Aguilar, Gavriella	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Alama, Carolyn	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Albers, Sheila	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Alward, Redwan	Fictitious Computer Crime	Schmidt, Mark	12:50 PM	Glacier North
Andersen, Ashley	Engagement of Women in STEM	Barth, Carrie	9:00 AM	Ballroom
Anderson, Erin	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Anderson, Katherine	Stop Trying to Change Me	Barton, Matthew	1:30 PM	Voyageur North
Annangi, Hari Krishna	Theft at jewelry store	Schmidt, Mark	10:15 AM	Voyageur South
Arbogast, Amanda	Retrieval Inhibition At Different Ages	Valdes, Leslie	9:00 AM	Ballroom
Arcand, Samuel	North Shore Orographically Forced Snow	Billings, Brian	9:00 AM	Ballroom
Arief, Nyimas	A Comparison of the Reinforcing Effectiveness of Different Types of Attention on Skill Acquisition in Typically Developing Preschool Children	Ackerlund Brandt, Julie	9:00 AM	Ballroom
Aryal, Sumedha	Diffusion dynamics of drug molecules from hydrogel matrix	Sivaprakasam, Kannan	2:00 PM	Ballroom
Aslam, Fakiha	The Histidine Biosynthetic pathway in Neisseria meningitidis	Kvaal, Christopher	9:00 AM	Ballroom
Aspinwall, Casandra	Memory and Impression Management of Resumes	Valdes, Leslie	9:00 AM	Ballroom
Azer, Rami	House energy monitoring system	Hossain, Md	9:00 AM	Ballroom
Azo, Loris	Does Estrogenic Exposure Alter Swimming Behavior and Increase Vulnerability of Larval Fathead Minnows?	Schoenfuss, Heiko	2:00 PM	Voyageur South
Balsemo, Brianna	You Can Tell It's a Lithic Because of the Way That It Is: A Lithic Analysis of the Little Elk River Mission Site	Mann, Robbie	9:00 AM	Ballroom
Baqaar, Mohammed	Robot Swarm for Managing Inventory	Petzold, Mark	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Barnes, Blake	Enzymatic Activity of TgCDK1 Binding of TgCYC2 in Toxoplasma gondii	Kvaal, Christopher	2:00 PM	Ballroom
Beckermann, Cassandra	Social Media as it pertains to meteorology	Kubesh, Rodney	9:00 AM	Ballroom
Benusa, Allen	Shift from HDD to SSD storage present forensic analysis challenges.	Schmidt, Mark	11:35 AM	Glacier North
Bertram, Riley	Physiological Changes in Male Bluegills Following Estrogen Exposure	Schoenfuss, Heiko	3:00 PM	Voyageur South
Bice, Haley	Senior Thesis	Leung, Godfrey	9:00 AM	Ballroom
Bio Sawe, Waidath	Investigation of the role of SMURF on PGC1 α	Olson, Brian	2:00 PM	Ballroom
Bird, Kyle	Effects of Pharmaceutical Pollution on Predator Avoidance and Feeding Efficiency in Larval Fathead Minnows	Schoenfuss, Heiko	8:20 AM	Granite
Bisping, Ashley	The Effect of Exposure to PCB-153 on Insulinitis Index in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Bjerkness, Troy	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Bloch, Maria	Variation of the Center of Gravity of Palatal Sibilant [j] across Vowels	Koffi, Ettien	9:00 AM	Ballroom
Bloch, Sarah	Prospective Reduction of Gamma-Crystallin Protein Aggregates By Disulfide Bond Forming Enzyme	Dobson, Cassidy	9:00 AM	Ballroom
Blomker, Jacquelin	Effects of Emerging Pollutants on Larval Fish Succession	Schoenfuss, Heiko	2:00 PM	Ballroom
Boeckermann, Cameron	A comparison between the U.S. and Russia's health and human services	Blinnikov, Mikhail	2:00 PM	Ballroom
Bondili, Naga Sandeep	Mr. Insider	Schmidt, Mark	2:20 PM	Glacier North
Bonsu, Osei	The transformation of payments through technology	Hossain, Md; Herath, Susantha	2:00 PM	Glacier South
Boser, Gabrielle	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Bottelberghe, Jacob	Identification of the Human Protein Smurf1 as Novel Therapeutic Target for the Treatment of Parkinson's and/or Huntington's Disease	Olson, Brian	2:00 PM	Ballroom
Bottelberghe, Jacob	The Human Protein SMURF1 as a Possible Regulator of PGC-1 α and a Possible Target for the Treatment of Parkinson's Disease	Olson, Brian	2:00 PM	Ballroom
Boutain, Troy	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
Boyd-Lecky, Braimah	You Really are What You Eat	Julius, Matthew	2:00 PM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Boyle, Jenna	Multiple Perspectives of the 1930's	Galler, Robert	11:45 AM	Glacier South
Braaten, Bridgett	Criminal Justice Analytics	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:20 PM	Granite
Brown, Monet	You Really are What You Eat	Julius, Matthew	2:00 PM	Ballroom
Bruner, Kylie	Effects of PCB-153 on Immune T-cells in Experimental Type 1 Diabetes Mouse Model	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Bryson, Alex	Induction Workstation Automation	Bekkala, Andrew	12:50 PM	Voyageur North
Buoy, Amanda	Annotation of the Histidine Biosynthetic Pathway of Halophilic archaeon	Kvaal, Christopher	2:00 PM	Ballroom
Burgett, Alyssa	Debunking common misconceptions of the people in the 1920's	Galler, Robert	9:30 AM	Glacier South
Buschette, Mariah	Investigation of the Regulation of the Human Protein PGC-1a and its Implication for the Treatment of Human Disease	Olson, Brian	2:00 PM	Ballroom
Byers, Amanda	The Effect of Exposure to PCB-153 on Insulinitis Index in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Cai, Wenting	Merging BCA Data with Stearns County Jail Data	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	3:00 PM	Granite
Cannon, Tameka	The transformation of payments through technology	Hossain, Md; Herath, Susantha	2:00 PM	Glacier South
Cardinal, Jacob	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Chintoju, Savanth	An Enterprise Fraud Case	Schmidt, Mark	11:00 AM	Glacier North
Christensen, Michelle	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Christman, Chelsea	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Chu, Michael	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Clendenen, Christopher	Motivational Interviewing	Imbra, Christine	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Clendenen, Christopher	Small Steps to Success	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Corgard, David	Optical Pressure Detection of a Gaseous Medium	Sinko, John	9:00 AM	Ballroom
Corgard, David	Ballistics on a Hill: Shooting high or low?	Haglin, Kevin	2:00 PM	Ballroom
Cornelius, Ryan	Microwave Spectroscopy and the CO ₂ - Difluoropyridine Complex	Dvorak, Michael	2:00 PM	Ballroom
Cox, Megan	Contaminants of Emerging Concern: Does Effluent Temperature Modulate Estrogenic Effects on Larval Behavior?	Schoenfuss, Heiko; Ward, Jessica	10:20 AM	Cascade
Crafton, Jessica	Varied Protrayals of Early 20th Century American Experiences	Galler, Robert	12:00 PM	Glacier South
Cullen, Emily	Costa Rica; Nature Tourism in a Globalized World	Blinnikov, Mikhail	2:00 PM	Ballroom
Cusick, James	Dual Coding in Spatial Memory	Valdes, Leslie	9:00 AM	Ballroom
Dandu, Sujitha	Digital Forensics final project	Schmidt, Mark	11:50 AM	Glacier North
Danielson, Cody	Implementation and Application of Genetic Algorithms	Hossain, Md	2:20 PM	Glacier South
Dean, Brian	35th Annual Spring Student Survey	Zerbib, Sandrine; Frank, Stephen; Wagner, Steven; Garcia-Perez, Monica; Cottrill, James; Finan, Ann-Marie; Kulas,	8:00 AM	Glacier North
Deason, Nicolette	A comparison of commercial airlines' representation with passengers' perception of their environmental footprint.	John, Gareth	2:00 PM	Ballroom
Delgado, Paula	Reciprocal Violence and Injuries in Couples in Arequipa, Peru	Daneshpour, Manijeh	8:40 AM	Glacier North
Dempsey, Joseph	Everything Counts: Improving the College Experience	Klepeter, Adam	2:40 PM	Voyageur South
Devine, Melanie	Multiple Perspectives on WWII	Galler, Robert	11:30 AM	Glacier South
Dillingham, Shawn	An Evolutionary Algorithm for the Job Shop Scheduling Problem	Herath, Jayantha	8:20 AM	Glacier South
Dingmann, Zachary	Invasive Asian Carp	Simpson, Patricia	2:00 PM	Ballroom
Diong, Sj	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Dobmeier, Alexander	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Domeier, Danielle	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Dougherty, Lauren	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Dreher, Benjamin	Concentration units in the chemical literature: molality is missing.	Winter, Nathan	9:00 AM	Ballroom
Dwyer, Angela	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Ebinger, Eryn	The Effect of PCB-153 on the Incidence of Type 1 Diabetes in an NOD Mouse Model	Cetkovic-Cvrlje, Marina	2:00 PM	Ballroom
Eckhoff, Paul	Annotation of the Histidine Biosynthetic Pathway of Aeropyrum pernix	Kvaal, Christopher	2:00 PM	Ballroom
Egbert, Maxwell	The Effects of Demographics and Experience on Self-Confidence and Success During Examinations in an Undergraduate General Chemistry Class.	Krystyniak, Rebecca	2:00 PM	Ballroom
Eggert, Emily	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Eliszewski, Daniel	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Ellig, Jonathan	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Ellis, Tia	I Made This In Milk	Julius, Matthew	2:00 PM	Ballroom
Emery, Taylor	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Engels, Michael	Forensic information gathering on solid state devices	Schmidt, Mark	12:30 PM	Glacier North
Erdahl, Thomas	Recidivism Analytics	Robinson, David	9:00 AM	Ballroom
Erdahl, Thomas	Criminal Justice Analytics	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:20 PM	Granite
Ericson, Samantha	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Eschrich, Alyssa	Wolf Regulation in Minnesota	Simpson, Patricia	9:00 AM	Ballroom
Etikala, Punith Reddy	Crime detection over flash drives using digital forensics	Schmidt, Mark	2:00 PM	Glacier North
Evuleocha, Kimberly	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Fabre, Ahmed	Community engagement and outreach	Imbra, Christine	9:00 AM	Ballroom
Fischer, Kelsey	Physiological Changes in Male Bluegills Following Estrogen Exposure	Schoenfuss, Heiko	3:00 PM	Voyageur South
Fisher, Ethan	Induction Workstation Automation	Bekkala, Andrew	12:50 PM	Voyageur North

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Fliehr, Kathryn	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Floren, Melissa	Effects of PCB-153 Exposure on Leukocyte Populations in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Fogarty, Stuart	The Human Protein SMURF1 as a Possible Regulator of PGC-1 α and a Possible Target for the Treatment of Parkinson's Disease	Olson, Brian	2:00 PM	Ballroom
Forar, Christian	Geographic analysis of leading causes of Whitetail Deer mortality in Minnesota	John, Gareth	2:00 PM	Ballroom
Foster, Joseph	An Evolutionary Algorithm for the Job Shop Scheduling Problem	Herath, Jayantha	8:20 AM	Glacier South
Friday, Daniel	Vikings and Victims	John, Gareth	2:00 PM	Ballroom
Funk, Scott	Flashbulb Memories	Valdes, Leslie	9:00 AM	Ballroom
Gaffney, Maria	Analysis of Thermospheric Wind Measurements Taken from SCSU	Harlander, John	2:00 PM	Ballroom
Gaffney, Maria	Optical Analysis of Smart Materials for Solar Energy Conversion	Sinko, John	2:00 PM	Ballroom
Gahm, Noah	Sex Education: An Oral Interpretation of Music	Wells, Scott	8:40 AM	Granite
Gajagauni, Vamshi Krishna	Forensic Investigation Report on Bank Robbery	Schmidt, Mark	1:35 PM	Glacier North
Gallus, Jennifer	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Gebriel, Luna	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
George, Rebecca	Spatial patterns of distance runners	John, Gareth	9:00 AM	Ballroom
Ghebru, Kibreab	Annotation of the Histidine Biosynthetic Pathway of Salmonella enterica	Kvaal, Christopher	9:00 AM	Ballroom
Gilbert, Samuel	Income Inequality Among Mexican Immigrants	Philon, Stephen	9:50 AM	Glacier North
Gilbertson, Lindsay	Everything Counts: Improving the College Experience	Klepetar, Adam	2:40 PM	Voyageur South
Gilyard, Dustin	Ballistics on a Hill: Shooting high or low?	Haglin, Kevin	2:00 PM	Ballroom
Gjorgieva, Nadica	Combined orientation for international and domestic students	Imbra, Christine	9:00 AM	Ballroom
Goedeke, Amanda	Saint Margaret, Queen of Scotland, and the Benedictine Rule	O'Brien, Maureen; Davis, Glenn	8:25 AM	Cascade
Gohman, Markie	An Investigation into whether Faculty vs. Student-led Research Results in Unintended Coercion	Witts, Benjamin	9:00 AM	Ballroom
Gold, Corina	The Acoustics of [m] in Various Vowel Contexts	Koffi, Ettien	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Gold, Corina	Small Steps to Success	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Gorecki, Alicen	The Effect of PCB-153 on the Incidence of Type 1 Diabetes in an NOD Mouse Model	Cetkovic-Cvrlje, Marina	2:00 PM	Ballroom
Gorman, David	Detection and Characterization of Polychlorinated Biphenyl Mixtures Combining Enhanced Photo Luminescence and Chemometric Techniques	Dvorak, Michael	12:50 PM	Cascade
Goulet, Courtney	A Survey of the Effects of Common Pollutants on Hawaiian Fishes	Schoenfuss, Heiko	11:00 AM	Voyageur South
Graham, Matthew	Myths of the Battle of Britain	Galler, Robert	9:45 AM	Glacier South
Grangroth, Charles	SAE Aero Design West	Bekkala, Andrew; Little, Eric	12:30 PM	Voyageur North
Greenwaldt, Tyler	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Grinsteinner, Michael	Synthesis of 1,2,7,8-tetracyanocarbazoles to create a novel ring system	Gardner, Thomas	2:00 PM	Ballroom
Griswold, Mellinda	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Grundahl, Amy	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Guasp, Sarah	Metamemory for Emotional Facial Expressions	Valdes, Leslie	9:00 AM	Ballroom
Guley, Insel	Fictitious Computer Crime	Schmidt, Mark	12:50 PM	Glacier North
Gullickson, Kelsey	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Gupta, Rachel	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Guzy, Andrea	Attitudes Towards Minnesota Weather and Climate	Jazwinski, Christine	2:00 PM	Ballroom
Hageman, Benjamin	Investigation of the Regulation of the Human Protein PGC-1 α and its Implication for the Treatment of Human Disease	Olson, Brian	2:00 PM	Ballroom
Haggerty, Cassandra	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Halbur, Mary	An Evaluation of Children's Preferences for Types of Attention Across Different Adults	Ackerlund Brandt, Julie	2:00 PM	Ballroom
Hanley, Stephanie	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Hanmer, Audrey	Gender Differences in Episodic Memory	Valdes, Leslie	9:00 AM	Ballroom
Hannes, Henry	Hugo Chavez: Reducing Poverty in Venezuela with the Venezuelan Oil Industry	Blinnikov, Mikhail	2:00 PM	Ballroom
Harlander, Adam	Development of the 1920s	Galler, Robert	10:30 AM	Glacier South
Harter, Joseph	Degenerate Four-Wave Mixing	Lidberg, Russell; Liu, Zengqiang	2:00 PM	Ballroom
Hartog, Laura	Leadership Development for Student Club/Organization Leaders	Imbra, Christine	9:00 AM	Ballroom
Harvey, Samuel	Methodology of the Elusive Entity in an Autieblog	Cogdill, Sharon	1:30 PM	Glacier South
Hassan, Amal	Sociologically Theorizing Inequality as Experienced by Somali Women in Somalia	Philion, Stephen	10:35 AM	Glacier North
Hauglid, Michael	Implementation and Application of Genetic Algorithms	Hossain, Md	2:20 PM	Glacier South
Heilig, Leah	#Polis: Virtual Communities as Civic Spaces	Heiman, James	2:00 PM	Voyageur North
Heilig, Leah	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Heilig, Leah	Small Steps to Success	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Heilig, Leah	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Heilig, Leah	Veterans Data	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Heine, Anna	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Hendrickson, Daniel	Watchdogs: Hacking Wi-Fi with a Mobile Phone	Rice, Erich; Guster, Dennis	1:10 PM	Cascade

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Hennagir, Seth	Determination of Charge Carrier Mobility in Polyacene Derivatives	Lidberg, Russell; Leenay, Tamara	9:00 AM	Ballroom
Hennes, Emily	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Her, Alynda	Economic Analysis of Market Share and Market Growth: Determinants in Advertising Sales Ratios	Switzer, David	2:20 PM	Voyageur North
Herath, Isuru	Digital Forensics with Kali Linux	Schmidt, Mark	2:35 PM	Glacier North
Herne, Emily	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
Hess, Travis	False Memory in Witness Testimony	Valdes, Leslie	9:00 AM	Ballroom
Highley, Kumiko	Genetic Component to Mate Choice Copying in <i>Poecilia reticulata</i> and <i>Poecilia latipinna</i>	Marcattilio, Anthony	2:00 PM	Ballroom
Hiner, Charles	Discourses of Decline: An Analysis of the Geographical Transformation of the Motor City	John, Gareth	11:20 AM	Voyageur South
Hinkemeyer, Keli	The Use of Positive Reinforcement as Subtle Cues in Counseling Sessions	Witts, Benjamin	2:00 PM	Ballroom
Hinkemeyer, Kyle	Robot Swarm for Managing Inventory	Petzold, Mark	9:00 AM	Ballroom
Hippe, Colton	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Hopfner, Sarah	Design and Synthesis of a Novel Indanone Chemotherapeutic Agent	Mechelke, Mark	9:00 AM	Ballroom
Hopfner, Sarah	Design and Synthesis of a Novel Indanone Chemotherapeutic Agent	Mechelke, Mark	9:55 AM	Cascade
Huang, Shiyao	Synthesis and characterization of modified pol(vinyl alcohol)	Sivaprakasam, Kannan	9:00 AM	Ballroom
Huggett, Samantha	Fire Spread and Landscape Change in Pagami Creek (BWCAW)	John, Gareth	2:00 PM	Ballroom
Hussein, Sahur	Prevalence of Pulmonary Tuberculosis among the Somali population in Minnesota	Blinnikov, Mikhail; Antunez, Hector Giovanni	9:00 AM	Ballroom
Hutter, Emily	An Evaluation of the Reinforcing Efficacy of General Praise and Behavior-Specific Praise in Typically Developing Preschool Children	Ackerlund Brandt, Julie	9:00 AM	Ballroom
Iduoku, Kweeni	SAE Aero Design West	Bekkala, Andrew; Little, Eric	12:30 PM	Voyageur North

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Ingvarsson, Travis	Ballistics on a Hill: Shooting high or low?	Haglin, Kevin	2:00 PM	Ballroom
Ivanova, Jelena	Statistical analysis of individual variability in fathead minnow populations exposed to endocrine disrupters	Schoenfuss, Heiko	8:40 AM	Glacier South
Jagannathan, Shruti	Analyzing the Pharmacological Effects of Picrotoxin in Regenerating and Intact Dugesia Tigrina (Planaria) Worms	Ramakrishnan, Latha	9:00 AM	Ballroom
Jedynak, Maija	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Jeganathan, Shajive	Shift from HDD to SSD storage present forensic analysis challenges.	Schmidt, Mark	11:35 AM	Glacier North
Jensen, Brikken	The Progression of 911	Herath, Susantha	10:10 AM	Voyageur North
Johannes, Bridget	Lawn Maintenance Survey of Homeowners in the St. Cloud, MN Metro Area	Bender, Michner	9:00 AM	Ballroom
Johannes, Bridget	Soil Fertility Status of Lawns in the St. Cloud, MN Metro Area	Bender, Michner	2:20 PM	Voyageur South
Johnson, Ashley	Social Support and Stigma in disability and chronic illness	Hemmesch, Amanda	2:00 PM	Ballroom
Johnson, Carley	Multiple Perspectives of the 1930's	Galler, Robert	11:45 AM	Glacier South
Johnson, Christopher	Economic and governmental determinants of bank failures	Switzer, David	3:00 PM	Voyageur North
Jones, Kelly	Values, Creativity, & Leadership	Illies, Jody	9:00 AM	Ballroom
Junggeburth, Miriam	An investigation into the knowledge, opinions and behaviors of university students in regard to genetically modified foods.	Simpson, Patricia	9:00 AM	Ballroom
Kahler, Kristine	Community Action Council Crow Wing County; Website, Statements, Community Center	Ugochukwu, Chukwunyerere	9:00 AM	Ballroom
Kalk, Megan	35th Annual Spring Student Survey	Zerbib, Sandrine; Frank, Stephen; Wagner, Steven; Garcia-Perez, Monica; Cottrill, James; Finan, Ann-Marie; Kulas,	8:00 AM	Glacier North
Kaneza, Kelly Marvine	Criminal Justice Analytics	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:20 PM	Granite
Kastury, Ashish	Mr. Insider	Schmidt, Mark	2:20 PM	Glacier North
Kelly, Andrew	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Kelm, Noah	Annotation of the Histidine Biosynthetic Pathway of Haemophilus influenzae	Kvaal, Christopher	2:00 PM	Ballroom
Kelzenberg, Allie	The Effects of Studying Abroad in College and its Relation to International Employment	Blinnikov, Mikhail	2:00 PM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Keyworth, Paul	An Acoustic Phonetic Study on Lexical Stress Contrasts in Arabic and Mandarin-Accented English	Koffi, Ettien	8:00 AM	Cascade
Kipping, K.C.	Identification of /Salmonella enterica/ transcriptional and physiological changes induced by desiccation and thermal stress in an inert dry matrix	Fink, Ryan	2:00 PM	Ballroom
Klahr, Rachael	Comparing Stress Across Individuals: A Psychophysical Measure of Stress	Protolipac, Daren	12:30 PM	Cascade
Klein, Benjamin	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Knauber, Brenda	Mathematical Modeling for Fractional Kinetics	Bohannan, Gary	2:00 PM	Ballroom
Koch, Jacob	Transversely Excited Atmospheric-pressure CO2 Pulsed Gas Laser	Hossain, Md	9:00 AM	Ballroom
Korneck, Kayla	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Korre, Mahender	Theft at jewelry store	Schmidt, Mark	10:15 AM	Voyageur South
Koshowany-Wilken, Samantha	St. Marina: A Lesson in Spiritual Endurance	O'Brien, Maureen; Davis, Glenn	1:10 PM	Glacier South
Kostka, Clarissa	Social Practice and Policy	Philion, Stephen	9:30 AM	Glacier North
Kotha, Veenadhari	Digital Forensics Final Project	Schmidt, Mark	11:20 AM	Glacier North
Kroiss, Matthew	The effects of family characteristics on student performance	Switzer, David	11:20 AM	Voyageur North
Kruger, Matthew	Lawn Maintenance Survey of Homeowners in the St. Cloud, MN Metro Area	Bender, Michner	9:00 AM	Ballroom
Kruger, Matthew	Soil Fertility Status of Lawns in the St. Cloud, MN Metro Area	Bender, Michner	2:20 PM	Voyageur South
Kuhn, Carol	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Kuiper, Jordan	National Scare? Diabetes and Organic Pollutants: A Persistent Problem	Cetkovic-Cvrlje, Marina	8:50 AM	Cascade
Kunkel, Anthony	Degenerate Four-Wave Mixing	Lidberg, Russell; Liu, Zengqiang	2:00 PM	Ballroom
Larson, Christopher	Effects of Fetal Alcohol Spectrum Disorder on Memory	Valdes, Leslie	11:40 AM	Voyageur South
Lawhorne, Lexis	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Lee, Jason	SCSU Students' Knowledge, Beliefs, and Opinions regarding Nuclear Energy	Simpson, Patricia	2:00 PM	Ballroom
Lehnen, Megan	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Leonhard, Jenna	Identification of the Human Protein Smurf1 as Novel Therapeutic Target for the Treatment of Parkinson's and/or Huntington's Disease	Olson, Brian	2:00 PM	Ballroom
Lindquist, BrieAnna	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Lindsey, Kelli	Correlation Between Densities of Children and Housing Values	John, Gareth	9:00 AM	Ballroom
Linn, Cassandra	Functional Polymer and Supramolecular Material from Hemiporphyrizine Derivatives	Gardner, Thomas	2:00 PM	Ballroom
Linn, Trista	Extinction and Reinstatement of Side Preference in the Madagascar Hissing Cockroach <i>Gromphadorhina portenosia</i>	Witts, Benjamin	2:00 PM	Ballroom
Lisowe, Pamela	Community Service Involvement Outreach in St Cloud State University Athletics	Imbra, Christine	9:00 AM	Ballroom
Luis, Jessica	Development of the 1920s	Galler, Robert	10:30 AM	Glacier South
Lukach, Jaren	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Lundy, Casey	The Acoustics of word-final /z/ in Central Minnesotan Speech	Koffi, Ettien	9:00 AM	Voyageur South
Mackedanz, Austin	The Stock Market and Computing	Hossain, Md	8:00 AM	Glacier South
Maddipati, Babu Rajeev	Crime Investigation of a mysterious murder using computer forensics	Schmidt, Mark	1:20 PM	Glacier North
Maharjan, Arbin	Forensics Investigation of Digital Evidence	Schmidt, Mark	1:05 PM	Glacier North
Malla, Minesh	Forensics Investigation of Digital Evidence	Schmidt, Mark	1:05 PM	Glacier North
Manchikatla, Swarna	An Enterprise Fraud Case	Schmidt, Mark	11:00 AM	Glacier North
Marrone, Alexandria	Rhetorical Analysis of the Social Discursive Constructs that Perpetuate the Marginalization of English Language Learners	Mohrbacher, Carol	10:45 AM	Cascade
Marrone, Alexandria	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Martin, Amanda	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Martin, Rene	Evolution of Jaws and Ecological Niche Specialization in Deep-sea Lanternfish	Davis, Matthew	2:00 PM	Ballroom
Martinson, Tashina	The Power of Collaboration to Promote Disability Awareness Month at St. Cloud State University	Imbra, Christine	9:00 AM	Ballroom
Matson, Jordee	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
McCourt, Preston	Annotation of the Histidine Biosynthetic Pathway of <i>Pseudomonas fulva</i>	Kvaal, Christopher	2:00 PM	Ballroom
McDonald, Jessica	Analyzing Thunderstorm Parameters Using Stereo Photogrammetry	Billings, Brian	2:00 PM	Ballroom
McDonough, Jonathan	A Survey of Organic Chemistry Students' Understanding of Models and Their Use in Atomic Theory	Krystyniak, Rebecca	8:00 AM	Voyageur North
Merrier, Nathan	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Metcalf, Craig	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Meyer, Hannah	"It's On Us"-Exploring Bystander Intervention	Imbra, Christine	9:00 AM	Ballroom
Meyer, Scott	Development of a Quantum Mechanics Lab to Assist and Assess Student Learning and Understanding	Petitto, Sarah	9:00 AM	Ballroom
Miller, Brian	The Impact Successful NFL Franchises Have on Their Respective Metropolitan Area GDP and Employment.	Switzer, David	2:40 PM	Voyageur North
Miller, Matthew	The Effect of PCB-153 on the Incidence of Type 1 Diabetes in an NOD Mouse Model	Cetkovic-Cvrlje, Marina	2:00 PM	Ballroom
Miska, Jennifer	Values, Creativity, & Leadership	Illies, Jody	9:00 AM	Ballroom
Mittal, Anirudh	Crime Investigation of a mysterious murder using computer forensics	Schmidt, Mark	1:20 PM	Glacier North
Mok, Hwakyun (Moka)	Changing identities from speaking Korean to speaking English while studying abroad	Schwartz, Michael; Madden, John	1:30 PM	Voyageur South
Mollenhauer, Martin	Toward a Geographical Understanding of Minnesota's Status as the United States Leading Turkey Producer	John, Gareth	8:20 AM	Voyageur North
Moran, Jocelynn	Multiple Perspectives of the American Industrial Period	Galler, Robert	10:15 AM	Glacier South
Moran, Michelle	The Effect of Exposure to PCB-153 on Insulinitis Index in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Moren, Tod	SAE Aero Design West	Bekkala, Andrew; Little, Eric	12:30 PM	Voyageur North
Moriarity, Kaitlyn	Societal Pressure and Gender: How does it Impact Weight Loss Attempts	Devoe, Marlene	9:00 AM	Ballroom
Mueller, Maria	35th Annual Spring Student Survey	Zerbib, Sandrine; Frank, Stephen; Wagner, Steven; Garcia-Perez, Monica; Cottrill, James; Finan, Ann-Marie; Kulas,	8:00 AM	Glacier North
Mueller, Tiffany	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Muench, William	Optical Pressure Detection of a Gaseous Medium	Sinko, John	9:00 AM	Ballroom
Naini, Rishitha	Digital Forensic Final Project	Schmidt, Mark	12:05 PM	Glacier North
Nguyen, Kathy	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Nguyen, Ryan	Exclusion or Inclusion, How Writing about History Changes It	Galler, Robert	10:00 AM	Glacier South
Nipp, Alexander	Soil Fertility Status of Lawns in the St. Cloud, MN Metro Area	Bender, Michner	2:20 PM	Voyageur South
Nitta, Arisa	Changing in children health in USA and Japan influenced by globalization	Blinnikov, Mikhail	2:00 PM	Ballroom
Notch, Jennifer	Effects of Emerging Pollutants on Larval Fish Succession	Schoenfuss, Heiko	2:00 PM	Ballroom
Notch, Scott	Optical Pressure Detection of a Gaseous Medium	Sinko, John	9:00 AM	Ballroom
Notch, Scott	Robot Swarm for Managing Inventory	Petzold, Mark	9:00 AM	Ballroom
Nusbaum, Patrick	Stuck In My Head: Musical False Memory	Valdes, Leslie	9:00 AM	Ballroom
O'Bryan, Taylor	Veterans Data	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Ocariz-Elsen, Javier	Coping with memory loss in Alzheimer's Disease	Valdes, Leslie	9:00 AM	Ballroom
Oden, Carrie	Growth of Sex Trafficking in Nepal in India	Blinnikov, Mikhail	9:00 AM	Ballroom
Oestreich, Jennifer	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Ohlemann, Erin	Children's Memory For Routine Behavior: What Helps and What Hinders?	Valdes, Leslie	9:00 AM	Ballroom
Olean, Laura	Comparing Stress Across Individuals: A Psychophysical Measure of Stress	Protolipac, Daren	12:30 PM	Cascade

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Olson Glimsdal, Kaitlin	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Olson, Andrew	Analysis of BCA Data	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:40 PM	Granite
Olson, Carrie	Predicting the Duration of Stay in Jail	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:00 PM	Granite
Olson, Robert	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Olson, Whitney	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Omar, Faisal	Concentration units in the chemical literature: molality is missing.	Winter, Nathan	9:00 AM	Ballroom
Orsatti, Micah	Globalization and Marx	Philion, Stephen	10:20 AM	Glacier North
Paidi, Karthik	Mr. Pizza Boy	Schmidt, Mark	2:50 PM	Glacier North
Pan, Jiayin	How does study in US shape Chinese students' life decisions in future?	Zuo, Jiping	1:10 PM	Voyageur North
Pant, Anna	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Pasek, Katrina	You Can Tell It's a Lithic Because of the Way That It Is: A Lithic Analysis of the Little Elk River Mission Site	Mann, Robbie	9:00 AM	Ballroom
Paul, Robbie	Community Anti-Racism Education Initiative Findings	Leigh, Debra	8:40 AM	Voyageur South
Paul, Robbie	Mate Selection in the Millenial Generation - Paradox or Paradigm	Zuo, Jiping	12:00 PM	Voyageur South
Pederson, Michael	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Peine, Courtney	SAE Aero Design West	Bekkala, Andrew; Little, Eric	12:30 PM	Voyageur North
Pelowski, Walter	Transversely Excited Atmospheric-pressure CO2 Pulsed Gas Laser	Hossain, Md	9:00 AM	Ballroom
Peterson, Robyn	Optimism, Pessimism, Environmental Attitudes and Environmental Behaviors	Jazwinski, Christine	9:00 AM	Ballroom
Phillippi, James	Examining the Polish Heritage and Identity of Columbia Heights: A Study in Ethnic Place-Making in Minnesota	John, Gareth	9:50 AM	Voyageur North
Phuyal, Sandip	Investigation with Digital Forensic Tool of USS Benfold movement leakage	Schmidt, Mark	10:00 AM	Voyageur South
Piersak, Matthew	Unwelcome Tourists: The Spread of Aquatic Invasive Species	John, Gareth	2:00 PM	Ballroom
Platt, Katy	Synthesis of the Natural Product Costunolide	Mechelke, Mark	2:00 PM	Ballroom

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Ponakala, Venkata	Mr. Pizza Boy	Schmidt, Mark	2:50 PM	Glacier North
Ponce Diaz, Mariana	First Generation Students of Color Transition to College	Barth, Carrie	9:00 AM	Ballroom
Powell, Jonathan	Freight Transportation Routes in Central Minnesota	John, Gareth	2:00 PM	Ballroom
Pravdica, Cecilie	Effects of PCB-153 Exposure on Leukocyte Populations in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Preusser, Richard	Characterization of Smart Materials	Sivaprakasam, Kannan	2:00 PM	Ballroom
Preusser, Samantha	Journey to Heal	DeVos, Sara	9:00 AM	Ballroom
Pribula, Connor	Synthesis of the Natural Product Costunolide	Mechelke, Mark	2:00 PM	Ballroom
Pulugurta, Sreevidya	Digital Forensic Final Project	Schmidt, Mark	12:05 PM	Glacier North
Pun, Raj	A Holistic Approach To Investigating Network Intrusion Using Incident Repsonse	Schmidt, Mark	9:45 AM	Voyageur South
Pung, Gabriella	The Effect of Exposure to PCB-153 on Insulitis Index in NOD Mice	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Quernemoen, Riika	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Quintavalle, Ashley	An investigation into the knowledge, opinions, and behaviors of university students in regards to vaccines	Simpson, Patricia	2:00 PM	Ballroom
Radmanesh, Azadeh	A Study Of The Adjustment Of International Graduate Students At American Universities	Zuo, Jiping	2:00 PM	Ballroom
Ragone, Zachary	Analysis of BCA Data	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:40 PM	Granite
Rahman, Mohammad	Reflection on Representation of English	Cogdill, Sharon	1:10 PM	Voyageur South
Rausch, Sara	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Rice Epsky, Linnea	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Richter, Devon	Connection between Down Syndrome and Dementia	Valdes, Leslie	9:00 AM	Ballroom
Robinson, Renard	Learning Cultural Norms	Valdes, Leslie	9:00 AM	Ballroom
Rooker, Jeremy	Memory and Attention Deficit Hyperactivity Disorder in Children	Valdes, Leslie	2:00 PM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Ryan, Paul	Veterans Data	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Saka, Akeem	Cheap Labor	Herath, Susantha	2:40 PM	Glacier South
Samu, Farouk	A Holistic Approach To Investigating Network Intrusion Using Incident Reponse	Schmidt, Mark	9:45 AM	Voyageur South
Sanchez, Andrea	Resolution of a Computer Criminal Case	Schmidt, Mark	9:30 AM	Voyageur South
Satchivi, Tatiana Alma	Merging BCA Data with Stearns County Jail Data	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	3:00 PM	Granite
Savadogo, Fabrice	A Holistic Approach To Investigating Network Intrusion Using Incident Reponse	Schmidt, Mark	9:45 AM	Voyageur South
Schaefer, Kent	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Schlagel, Leah	Student Athlete Career Services Survey	Barth, Carrie	9:00 AM	Ballroom
Schmit, Taylor	Effects of PCB-153 on Immune T-cells in Experimental Type 1 Diabetes Mouse Model	Cetkovic-Cvrlje, Marina	9:00 AM	Ballroom
Schroden, Heidi	Moose Management in Minnesota	Simpson, Patricia	2:00 PM	Ballroom
Schwartz, Ellen	Impact of Affordable Care Act on Healthcare Service Utilization in Wright County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Schwartz, Hannah	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South
Schwieters, Rita	Degenerate Four-Wave Mixing	Lidberg, Russell; Liu, Zengqiang	2:00 PM	Ballroom
Scott, Ne'Angela	Everything Counts: Improving the College Experience	Klepitar, Adam	2:40 PM	Voyageur South
Seifert, Matthew	Local-Scale Factors Affecting the Geography of Buckthorn Invasion in Central Minnesota	John, Gareth	9:00 AM	Ballroom
Severson, Mitchell	Transversely Excited Atmospheric-pressure CO2 Pulsed Gas Laser	Hossain, Md	9:00 AM	Ballroom
Sherpa, Ang	Resolution of a Computer Criminal Case	Schmidt, Mark	9:30 AM	Voyageur South
Singh, Usha Rani	Digital Forensics Final Project	Schmidt, Mark	11:20 AM	Glacier North
Slind, Matthew	Social Injustice: The Exploitation of Undocumented Latino Workers	Blinnikov, Mikhail	9:00 AM	Ballroom
Smith, William	Watchdogs: Hacking Wi-Fi with a Mobile Phone	Rice, Erich; Guster, Dennis	1:10 PM	Cascade
Smith-Nordquist, Michael	Moose Population Decline in Northern Minnesota	John, Gareth	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Solberg, Clarinda	Retention and Graduation: SCSU Complete Degree Completion Program	Zuo, Jiping; Walker, Freddie	9:30 AM	Voyageur North
Sperl, Taylor	House energy monitoring system	Hossain, Md	9:00 AM	Ballroom
Stangel, Amanda	Subjective Analysis of Male's Perceptions on their Mental Health	Witts, Benjamin	2:00 PM	Ballroom
Stay, Karen	35th Annual Spring Student Survey	Zerbib, Sandrine; Frank, Stephen; Wagner, Steven; Garcia-Perez, Monica; Cottrill, James; Finan, Ann-Marie; Kulas,	8:00 AM	Glacier North
Stefely, Elizabeth	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Steinbring, Chase	Happiness and Productivity in the United States	Switzer, David	11:40 AM	Voyageur North
Stene, Charles	The Write Place: Building Better Writers, Not Just Better Writing	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Stibal, Lindsay	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Stoppel, Natalie	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Stumpf, Noelle	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Sui, Xinyue	Annotation of the histidine biosynthetic pathway of genus species	Kvaal, Christopher	2:00 PM	Ballroom
Sui, Xinyue	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Sultana, Afreen	Crime detection over flash drives using digital forensics	Schmidt, Mark	2:00 PM	Glacier North
Sultana, Afreen	Predicting the Duration of Stay in Jail	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:00 PM	Granite
Svensden, Benjamin	35th Annual Spring Student Survey	Zerbib, Sandrine; Frank, Stephen; Wagner, Steven; Garcia-Perez, Monica; Cottrill, James; Finan, Ann-Marie; Kulas,	8:00 AM	Glacier North
Sweeney, James	Plasma Temperature Analysis through Spectroscopy and Interferometry	Sinko, John	2:00 PM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Swenson, Tessa	Kandiyohi County Bike/Walk Survey	Wilson, Roxanne; Warner, Susan	9:00 AM	Ballroom
Tackett, Emma	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Terazzi Basso, Marcia	Predicting the Duration of Stay in Jail	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:00 PM	Granite
Terwey, Sarah	Varied Protrayals of Early 20th Century American Experiences	Galler, Robert	12:00 PM	Glacier South
Thein, Peter	Of Heroes and Villains: Interpretations of the American West	Galler, Robert	12:30 PM	Glacier South
Theis, Katie	Multiple Perspectives on WWII	Galler, Robert	11:30 AM	Glacier South
Theisen, Hannah	Annotation of the Histidine Biosynthetic Pathway of Ustilago maydis	Kvaal, Christopher	2:00 PM	Ballroom
Thinamany, Sinduja	The effects of Bisphenol A (BPA), persistent organic pollutant, on the incidence of type 1 diabetes in two experimental mouse models.	Cetkovic-Cvrlje, Marina	9:30 AM	Cascade
Thomalla, Steven	Miller Electric Senior Design Project	Bekkala, Andrew	12:50 PM	Voyageur South
Thompson, Bruce	Effective Recruitment Plan for Admissions and Athletics	Barth, Carrie	9:00 AM	Ballroom
Torfin, Blake	SAE Aero Design West	Bekkala, Andrew; Little, Eric	12:30 PM	Voyageur North
Triplett, Rebecca	Quantitative Analysis of Student Perceptions Regarding Sexual Assaults	Witts, Benjamin	9:00 AM	Ballroom
Trottier, Stephanie	Accepted to the University, Not the Community: Experiences of Saudi ESL Students in St. Cloud, MN	Blinnikov, Mikhail	2:00 PM	Ballroom
Tulenchik, Nicole	Influences on Drinking Behaviors of Childbearing Age Women in Meeker County	Wilson, Roxanne; Crane, Laurie	9:00 AM	Ballroom
Turck, Amanda	Education Measures on Sexually Transmitted Diseases and Sexually Transmitted Infections in Stearns County	Wilson, Roxanne; Henry, Vonna	9:00 AM	Ballroom
Vaidya, Ananta	Investigation with Digital Forensic Tool of USS Benfold movement leakage	Schmidt, Mark	10:00 AM	Voyageur South
Valentine, Anthony	The Journey Never Ends, the River Simply Bends	Williams, Rosemary	2:00 PM	Ballroom
Van Dort, Leoma	Globalization and the Political Economy of Urban Development: A Case Study of Colombo, Sri Lanka	Philion, Stephen	10:05 AM	Glacier North
Vang, Duha	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Vang, Miamoua	Early Bird or Night Owl? : How the Internal Clock Effects Metamemory	Valdes, Leslie	9:00 AM	Ballroom

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Vang, Miamoua	The Relationship of Generation Status and Cultural Identity on the Perception of Stress and Subjective Well-being	Devoe, Marlene	2:00 PM	Ballroom
Vang, Tee	3,5-Bis(benzylidene)-4-piperdone and its dichloroacetate ester: a potent cytotoxins with multiple site of action	Hossain, Mohammad	2:00 PM	Ballroom
VanHeuveln, Nathaniel	The Effect of Mortality Salience on Belief in a Just World and Deservingness	Devoe, Marlene	8:00 AM	Voyageur South
Veerannagari, Sai Shruthi	Digital Forensics final project	Schmidt, Mark	11:50 AM	Glacier North
Veeravelli, Rahul	Forensic Investigation Report on Bank Robbery	Schmidt, Mark	1:35 PM	Glacier North
Visser, Lukas	How the University Honors Program Can Enhance the International Experience	Barth, Carrie	9:00 AM	Ballroom
Vogt, Cassandra	You Can Tell It's a Lithic Because of the Way That It Is: A Lithic Analysis of the Little Elk River Mission Site	Mann, Robbie	9:00 AM	Ballroom
Vue, Steven	Gone Phishing: Surveying college students on phishing awareness and competency.	Schmidt, Mark; Rice, Erich	10:30 AM	Voyageur South
Wade, John	Characterization and Complexation of Alanine-Based Polymeric Nanoparticles with siRNA in D. tigrina Planarian Flatworms	Ramakrishnan, Latha	8:40 AM	Voyageur North
Wade, John	Characterization and Complexation of Alanine-Based Polymeric Nanoparticles with siRNA in D. tigrina Planarian Flatworms	Ramakrishnan, Latha	9:00 AM	Ballroom
Waldin, Alexis	Transfer of Stimulus Control of Toileting Behavior with Somali Male	Witts, Benjamin	9:00 AM	Ballroom
Watson, Joseph	Sleep and False Memories	Valdes, Leslie	10:30 AM	Voyageur North
Watts, Calvin	Understanding Ferguson at St. Cloud State University	Imbra, Christine	9:00 AM	Ballroom
Wegter, Brianne	Varied Experiences During the Progressive Era	Galler, Robert	9:00 AM	Glacier South
Westerhoff, Benjamin	Acute Toxicity Exposure of Nonylphenol Results in Dose Dependent Mortality to Daphnia pulex	Schoenfuss, Heiko	9:00 AM	Voyageur North
Whaylen, Chad	Determination of Charge Carrier Mobility in Polyacene Derivatives	Lidberg, Russell; Leenay, Tamara	9:00 AM	Ballroom
Wiesen, Kristen	Flipped Group Advising Session	Barth, Carrie	9:00 AM	Ballroom
Williams, Alisha	Social Practice and Policy	Philion, Stephen	9:30 AM	Glacier North
Williams, Andrew	Characteristics of High Schools That Contribute to Future Success	Switzer, David	11:00 AM	Voyageur North
Williams, Andrew	Predicting the Duration of Stay in Jail	Robinson, David; Lihinikadu Arachchige, Nadeesha; Xu, Hui	2:00 PM	Granite
Wills, Robert	Induction Workstation Automation	Bekkala, Andrew	12:50 PM	Voyageur North

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<u>Student Presenter</u>	<u>Project Title</u>	<u>Sponsor(s)</u>	<u>Time</u>	<u>Room</u>
Wilson, Madeline	The Modern Feminist Movement in the Mainstream Media.	Blinnikov, Mikhail	9:00 AM	Ballroom
Wilson, Michael	WWOOF Tourism in the Upper Midwest	Blinnikov, Mikhail	2:00 PM	Ballroom
Wipper, Drayton	The effect of Military Service on the standard of living	Switzer, David	12:00 PM	Voyageur North
Wisbar, Megan	A Qualitative Case Study of the Teacher's Perspective of Challenges, Resources, and Strategies for Serving English Language Learners at an Early Childhood Education Center	Robinson, James	8:20 AM	Voyageur South
Withanage, Chandira	Digital Forensics with Kali Linux	Schmidt, Mark	2:35 PM	Glacier North
Wolfe, Ryan	Gene Knockout Mutations of Salmonella enterica	Fink, Ryan	2:00 PM	Ballroom
Wolvington, Cherisse	Perspectives in World War I	Galler, Robert	11:00 AM	Glacier South
Woodberry, Kenan	Health of the Student Population	Robinson, David; Cogdill, Sharon; Lihinikadu Arachchige, Nadeesha; Heiman, James; Kilborn, Judith	2:00 PM	Ballroom
Xiong, Houa	Circulation Resources	Guster, Dennis	3:00 PM	Glacier South
Xiong, Kia	The transformation of payments through technology	Hossain, Md; Herath, Susantha	2:00 PM	Glacier South
Xue, Song	House energy monitoring system	Hossain, Md	9:00 AM	Ballroom
Yang, Matthew	Isolation of Antimicrobial Compounds from Bacteria	Millis, Louise	2:00 PM	Ballroom
Youn, Jonghee	Implementation of Extensive Reading in a Regular Korean High School context	Kim, Choonkyong	12:50 PM	Glacier South
Yusuf, Deqa	Yes or No Vocabulary Test	Kim, Choonkyong	9:00 AM	Glacier North
Zander, Elliot	Teaching about Native American's Experience in late 19th Century America	Galler, Robert	11:15 AM	Glacier South
Zimmer, Brinna	Annotation of the Histidine Biosynthetic Pathway of Starkeya novella	Kvaal, Christopher	2:00 PM	Ballroom
Zweber, Sarah	SOC 303 Quantitative research project: collecting and analyzing SCSU spring survey data	Zerbib, Sandrine	12:30 PM	Voyageur South

SPONSOR INDEX

St. Cloud State University

College of Liberal Arts

Anthropology and Sociology

<u>Sponsor</u>	<u>Student(s)</u>
Mann, Robbie	Balsemo, Brianna; Vogt, Cassandra; Pasek, Katrina

Communication Studies

<u>Sponsor</u>	<u>Student(s)</u>
Wells, Scott	Gahm, Noah

English

<u>Sponsor</u>	<u>Student(s)</u>
Barton, Matthew	Anderson, Katherine
Cogdill, Sharon	Kuhn, Carol; Ryan, Paul; Gold, Corina; Clendenen, Christopher; Heilig, Leah; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles; Bjerkness, Troy; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton; Harvey, Samuel; Rahman, Mohammad; O'Bryan, Taylor
Davis, Glenn	Goedeke, Amanda; Koshowany-Wilken, Samantha
Heiman, James	Kuhn, Carol; Ryan, Paul; Gold, Corina; Clendenen, Christopher; Heilig, Leah; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles; Bjerkness, Troy; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton; O'Bryan, Taylor
Kilborn, Judith	Kuhn, Carol; Ryan, Paul; Gold, Corina; Clendenen, Christopher; Heilig, Leah; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles; Bjerkness, Troy; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton; O'Bryan, Taylor
Kim, Choonkyong	Youn, Jonghee; Yusuf, Deqa
Koffi, Ettien	Keyworth, Paul; Lundy, Casey; Gold, Corina; Bloch, Maria
Madden, John	Mok, Hwakyun (Moka)
Mohrbacher, Carol	Marrone, Alexandria
Robinson, James	Wisbar, Megan
Schwartz, Michael	Mok, Hwakyun (Moka)

History

<u>Sponsor</u>	<u>Student(s)</u>
Galler, Robert	Thein, Peter; Johnson, Carley; Boyle, Jenna; Crafton, Jessica; Terwey, Sarah; Harlander, Adam; Wegter, Brianne; Graham, Matthew; Theis, Katie; Devine, Melanie; Nguyen, Ryan; Burgett, Alyssa; Moran, Jocelynn; Zander, Elliot; Luis, Jessica; Wolvington, Cherrisse
O'Brien, Maureen	Goedeke, Amanda; Koshowany-Wilken, Samantha

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Psychology

<u>Sponsor</u>	<u>Student(s)</u>
Devoe, Marlene	Vang, Miamoua; Moriarity, Kaitlyn; VanHeuveln, Nathaniel
Hemmesch, Amanda	Johnson, Ashley
Illies, Jody	Miska, Jennifer; Jones, Kelly
Jazwinski, Christine	Guzy, Andrea; Peterson, Robyn
Kulas, John	Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen
Protolipac, Daren	Olean, Laura; Klahr, Rachael
Valdes, Leslie	Vang, Miamoua; Hanmer, Audrey; Watson, Joseph; Aspinwall, Casandra; Richter, Devon; Ohlemann, Erin; Arbogast, Amanda; Ocariz-Elsen, Javier; Nusbaum, Patrick; Guasp, Sarah; Hess, Travis; Larson, Christopher; Robinson, Renard; Rooker, Jeremy; Funk, Scott; Cusick, James

Sociology

<u>Sponsor</u>	<u>Student(s)</u>
Finan, Ann-Marie	Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen
Phillion, Stephen	Kostka, Clarissa; Van Dort, Leoma; Williams, Alisha; Orsatti, Micah; Gilbert, Samuel; Hassan, Amal
Zerbib, Sandrine	Herne, Emily; Schwartz, Hannah; Matson, Jordee; Abdullah, Josefina; Gebriel, Luna; Zweber, Sarah; Boutain, Troy; Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen; Domeier, Danielle
Zuo, Jiping	Paul, Robbie; Pan, Jiayin; Radmanesh, Azadeh; Solberg, Clarinda

College of Science and Engineering

Biology

<u>Sponsor</u>	<u>Student(s)</u>
Cetkovic-Cvrlje, Marina	Kuiper, Jordan; Floren, Melissa; Gorecki, Alicen; Bruner, Kylie; Pravdica, Cecilie; Moran, Michelle; Bisping, Ashley; Byers, Amanda; Pung, Gabriella; Thinamany, Sinduja; Miller, Matthew; Schmit, Taylor; Ebinger, Eryn
Davis, Matthew	Martin, Rene
Fink, Ryan	Kipping, K.C.; Wolfe, Ryan
Julius, Matthew	Ellis, Tia; Boyd-Lecky, Braimah; Brown, Monet
Kvaal, Christopher	Theisen, Hannah; Zimmer, Brinna; Kelm, Noah; McCourt, Preston; Buoy, Amanda; Sui, Xinyue; Barnes, Blake; Ghebru, Kibreab; Aslam, Fakiha; Eckhoff, Paul
Marcattilio, Anthony	Highley, Kumiko
Millis, Louise	Yang, Matthew; Sui, Xinyue; Pederson, Michael; Chu, Michael; Jedynak, Maija; Diong, Sj; Pant, Anna; Stumpf, Noelle; Vang, Duha
Olson, Brian	Bottelberghe, Jacob; Leonhard, Jenna; Bio Sawe, Waidath; Fogarty, Stuart; Buschette, Mariah; Hageman, Benjamin
Schoenfuss, Heiko	Ivanova, Jelena; Azo, Loris; Goulet, Courtney; Notch, Jennifer; Blomker, Jacquelin; Bertram, Riley; Fischer, Kelsey; Bird, Kyle; Westerhoff, Benjamin; Cox, Megan
Ward, Jessica	Cox, Megan

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Chemistry and Biochemistry

<u>Sponsor</u>	<u>Student(s)</u>
Dobson, Cassidy	Bloch, Sarah
Dvorak, Michael	Gorman, David; Cornelius, Ryan
Gardner, Thomas	Linn, Cassandra; Grinsteinner, Michael
Hossain, Mohammad	Vang, Tee
Krystyniak, Rebecca	Egbert, Maxwell; McDonough, Jonathan
Leenay, Tamara	Hennagir, Seth; Whaylen, Chad
Mechelke, Mark	Hopfner, Sarah; Platt, Katy; Pribula, Connor
Petitto, Sarah	Meyer, Scott
Ramakrishnan, Latha	Jagannathan, Shruti; Wade, John
Sivaprakasam, Kannan	Aryal, Sumedha; Preusser, Richard; Huang, Shiyao
Winter, Nathan	Omar, Faisal; Dreher, Benjamin

Mathematics and Statistics

<u>Sponsor</u>	<u>Student(s)</u>
Lihinikadu Arachchige, Nadeesh	Kuhn, Carol; Ryan, Paul; Gold, Corina; Satchivi, Tatiana Alma; Cai, Wenting; Olson, Carrie; Clendenen, Christopher; Heilig, Leah; Williams, Andrew; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles; Erdahl, Thomas; Braaten, Bridgett; Kaneza, Kelly Marvine; Sultana, Afreen; Olson, Andrew; Ragone, Zachary; Bjerkness, Troy; Terazzi Basso, Marcia; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton; O'Bryan, Taylor
Robinson, David	Kuhn, Carol; Ryan, Paul; Gold, Corina; Satchivi, Tatiana Alma; Cai, Wenting; Olson, Carrie; Clendenen, Christopher; Heilig, Leah; Williams, Andrew; Christman, Chelsea; Hennes, Emily; Marrone, Alexandria; Stene, Charles; Erdahl, Thomas; Braaten, Bridgett; Kaneza, Kelly Marvine; Sultana, Afreen; Olson, Andrew; Ragone, Zachary; Bjerkness, Troy; Terazzi Basso, Marcia; Merrier, Nathan; Woodberry, Kenan; Anderson, Erin; Hippe, Colton; O'Bryan, Taylor
Xu, Hui	Satchivi, Tatiana Alma; Cai, Wenting; Olson, Carrie; Williams, Andrew; Erdahl, Thomas; Braaten, Bridgett; Kaneza, Kelly Marvine; Sultana, Afreen; Olson, Andrew; Ragone, Zachary; Terazzi Basso, Marcia

Physics and Astronomy

<u>Sponsor</u>	<u>Student(s)</u>
Bohannan, Gary	Knauber, Brenda
Haglin, Kevin	Corgard, David; Gilyard, Dustin; Ingvarsson, Travis
Harlander, John	Gaffney, Maria
Lidberg, Russell	Schwieters, Rita; Kunkel, Anthony; Harter, Joseph; Hennagir, Seth; Whaylen, Chad
Liu, Zengqiang	Schwieters, Rita; Kunkel, Anthony; Harter, Joseph
Sinko, John	Notch, Scott; Gaffney, Maria; Sweeney, James; Muench, William; Corgard, David

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Science Education

<u>Sponsor</u>	<u>Student(s)</u>
Simpson, Patricia	Dingmann, Zachary; Junggeburth, Miriam; Schroden, Heidi; Lee, Jason; Eschrich, Alyssa; Quintavalle, Ashley

Herberger Business School

Information Systems

<u>Sponsor</u>	<u>Student(s)</u>
Guster, Dennis	Xiong, Houa; Hendrickson, Daniel; Smith, William
Herath, Susantha	Bonsu, Osei; Cannon, Tameka; Xiong, Kia; Jensen, Brikken; Saka, Akeem
Rice, Erich	Vue, Steven; Hendrickson, Daniel; Smith, William
Schmidt, Mark	Vue, Steven; Maharjan, Arbin; Withanage, Chandira; Herath, Isuru; Sultana, Afreen; Benusa, Allen; Jeganathan, Shajive; Etikala, Punith Reddy; Sanchez, Andrea; Sherpa, Ang; Malla, Minesh; Savadogo, Fabrice; Korre, Mahender; Dandu, Sujitha; Kotha, Veenadhari; Veerannagari, Sai Shruthi; Singh, Usha Rani; Pulugurta, Sreevidya; Naini, Rishitha; Vaidya, Ananta; Phuyal, Sandip; Chintoju, Savanth; Manchikatla, Swarna; Alward, Redwan; Maddipati, Babu Rajeev; Mittal, Anirudh; Pun, Raj; Veeravelli, Rahul; Gajagauni, Vamshi Krishna; Ponakala, Venkata; Paidi, Karthik; Samu, Farouk; Guley, Insel; Kastury, Ashish; Bondili, Naga Sandeep; Engels, Michael; Annangi, Hari Krishna

School of Computing, Engineering and Environment

Atmospheric and Hydrologic Sciences

<u>Sponsor</u>	<u>Student(s)</u>
Billings, Brian	McDonald, Jessica; Arcand, Samuel
Kubesh, Rodney	Beckermann, Cassandra
Pound, Katherine	Ackman, Ian

Computer Science and Information Technology

<u>Sponsor</u>	<u>Student(s)</u>
Herath, Jayantha	Foster, Joseph; Dillingham, Shawn

Electrical and Computer Engineering

<u>Sponsor</u>	<u>Student(s)</u>
Hossain, Md	Bonsu, Osei; Cannon, Tameka; Xiong, Kia; Mackedanz, Austin; Danielson, Cody; Hauglid, Michael; Sperl, Taylor; Azer, Rami; Xue, Song; Pelowski, Walter; Koch, Jacob; Severson, Mitchell
Petzold, Mark	Notch, Scott; Hinkemeyer, Kyle; Baqaar, Mohammed

Environmental and Technological Studies

<u>Sponsor</u>	<u>Student(s)</u>
Bender, Michner	Johannes, Bridget; Kruger, Matthew; Nipp, Alexander

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Mechanical and Manufacturing Engineering

<u>Sponsor</u>	<u>Student(s)</u>
Bekkala, Andrew	Fisher, Ethan; Wills, Robert; Bryson, Alex; Peine, Courtney; Moren, Tod; Iduoku, Kweeni; Grangroth, Charles; Torfin, Blake; Olson, Robert; Dobmeier, Alexander; Schaefer, Kent; Kelly, Andrew; Thomalla, Steven; Greenwaldt, Tyler
Little, Eric	Peine, Courtney; Moren, Tod; Iduoku, Kweeni; Grangroth, Charles; Torfin, Blake

School of Education

Educational Leadership and Higher Education

<u>Sponsor</u>	<u>Student(s)</u>
Imbra, Christine	Martinson, Tashina; Hartog, Laura; Watts, Calvin; Meyer, Hannah; Lisowe, Pamela; Fabre, Ahmed; Clendenen, Christopher; Gjorgieva, Nadica
Klepitar, Adam	Dempsey, Joseph; Scott, Ne'Angela; Gilbertson, Lindsay

Human Relations and Multicultural Education

<u>Sponsor</u>	<u>Student(s)</u>
Leigh, Debra	Paul, Robbie
Walker, Freddie	Solberg, Clarinda

School of Health and Human Services

Community Psychology, Counseling, and Family Therapy

<u>Sponsor</u>	<u>Student(s)</u>
Ackerlund Brandt, Julie	Halbur, Mary; Hutter, Emily; Arief, Nyimas
Barth, Carrie	Wiesen, Kristen; Schlagel, Leah; Thompson, Bruce; Andersen, Ashley; Visser, Lukas; Ponce Diaz, Mariana
Daneshpour, Manijeh	Delgado, Paula
Witts, Benjamin	Gohman, Markie; Stangel, Amanda; Hinkemeyer, Keli; Triplett, Rebecca; Linn, Trista; Waldin, Alexis

Kinesiology

<u>Sponsor</u>	<u>Student(s)</u>
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Nursing

<u>Sponsor</u>	<u>Student(s)</u>
Crane, Laurie	Ericson, Samantha; Tackett, Emma; Stibal, Lindsay; Tulenchik, Nicole; Emery, Taylor; Gupta, Rachel; Lukach, Jaren; Korneck, Kayla; Evuleocha, Kimberly; Albers, Sheila
Henry, Vonna	Klein, Benjamin; Nguyen, Kathy; Dwyer, Angela; Heine, Anna; Cardinal, Jacob; Boser, Gabrielle; Schwartz, Ellen; Gullickson, Kelsey; Gallus, Jennifer; Griswold, Mellinda; Haggerty, Cassandra; Turck, Amanda; Fliehr, Kathryn; Rice Epsky, Linnea; Lawhorne, Lexis; Christensen, Michelle; Eggert, Emily; Quernemoen, Riika; Metcalf, Craig; Lehnen, Megan; Stefely, Elizabeth; Grundahl, Amy
Warner, Susan	Alama, Carolyn; Dougherty, Lauren; Hanley, Stephanie; Martin, Amanda; Oestreich, Jennifer; Olson Glimsdal, Kaitlin; Olson, Whitney; Rausch, Sara; Swenson, Tessa; Abuhadid, Thaer
Wilson, Roxanne	Alama, Carolyn; Dougherty, Lauren; Hanley, Stephanie; Martin, Amanda; Oestreich, Jennifer; Olson Glimsdal, Kaitlin; Olson, Whitney; Rausch, Sara; Swenson, Tessa; Abuhadid, Thaer; Klein, Benjamin; Nguyen, Kathy; Dwyer, Angela; Heine, Anna; Cardinal, Jacob; Boser, Gabrielle; Schwartz, Ellen; Gullickson, Kelsey; Gallus, Jennifer; Griswold, Mellinda; Ericson, Samantha; Tackett, Emma; Stibal, Lindsay; Tulenchik, Nicole; Emery, Taylor; Gupta, Rachel; Lukach, Jaren; Korneck, Kayla; Evuleocha, Kimberly; Albers, Sheila; Haggerty, Cassandra; Turck, Amanda; Fliehr, Kathryn; Rice Epsky, Linnea; Lawhorne, Lexis; Christensen, Michelle; Eggert, Emily; Quernemoen, Riika; Metcalf, Craig; Lehnen, Megan; Stefely, Elizabeth; Grundahl, Amy

Social Work

<u>Sponsor</u>	<u>Student(s)</u>
DeVos, Sara	Preusser, Samantha

School of Public Affairs

Economics

<u>Sponsor</u>	<u>Student(s)</u>
Garcia-Perez, Monica	Svensden, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen
Switzer, David	Wipper, Drayton; Williams, Andrew; Johnson, Christopher; Her, Alynda; Steinbring, Chase; Kroiss, Matthew; Miller, Brian

Geography and Planning

<u>Sponsor</u>	<u>Student(s)</u>
Blinnikov, Mikhail	Trottier, Stephanie; Slind, Matthew; Oden, Carrie; Boeckermann, Cameron; Hussein, Sahur; Cullen, Emily; Wilson, Madeline; Hannes, Henry; Kelzenberg, Allie; Nitta, Arisa; Wilson, Michael
John, Gareth	Mollenhauer, Martin; Phillippi, James; Huggett, Samantha; Lindsey, Kelli; George, Rebecca; Friday, Daniel; Seifert, Matthew; Hiner, Charles; Forar, Christian; Deason, Nicolette; Smith-Nordquist, Michael; Piersak, Matthew; Powell, Jonathan
Ugochukwu, Chukwunyere	Kahler, Kristine

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Political Science

Sponsor

Cottrill, James

Frank, Stephen

Wagner, Steven

Student(s)

Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen

Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen

Svendsen, Benjamin; Kalk, Megan; Mueller, Maria; Dean, Brian; Stay, Karen

School of the Arts

Art

Sponsor

Leung, Godfrey

Williams, Rosemary

Student(s)

Bice, Haley

Stoppel, Natalie; Mueller, Tiffany; Aguilar, Gavriella; Valentine, Anthony; Ellig, Jonathan; Lindquist, BrieAnna; Eliszewski, Daniel

2015 marks the 18th anniversary of this spectacular event! We are very proud of the 400+ participants for their dedication to research! Thank you for making this a great year!

The Student Research Colloquium Committee would like extend a special note of thanks to the numerous volunteers, judges, moderators, and faculty sponsors who helped make this event run smoothly! It would not have been possible without your help!

We would also like to offer our sincere appreciation for all of the donations from our supporters: Viking Coke, University Communications, Confucius Institute, Admissions, and the Center for Continuing Studies!

THANK YOU!