

PROCEEDINGS



APRIL 2020



Dear Campus and Community Members,

It is our pleasure to welcome all of you to our 3rd Annual Huskies Showcase, which is being hosted online through D2L Brightspace.

While we wish this important event could have been hosted in-person, it is still critical that we celebrate the engagement of students in the many forms of high impact educational experiences that occur on our campus every day. This institutional event showcases engagement in research, service, educational, and social/community activity and outcomes from the collaboration between campus members and community partners.

We live into our commitment as “Stewards of Place” every day when our students, faculty, and staff are engaging among themselves and with our community partners in high impact educational practices that prepare our students with knowledge and skills for life and work in the 21st Century. Huskies Showcase celebrates this shared commitment between St. Cloud State University and our community partners by showcasing the exemplary work that has taken place throughout the year.

The event is driven by the six dimensions of Our Husky Compact and provides a venue to showcase distinctive student experiences and an opportunity for the campus to support and celebrate student success.

We are committed to providing our students with opportunities to apply their learning to projects that enhance and advance both their professional aspirations and the communities in which they live and work.

We want to thank all of our students, faculty, staff and community partners for their hard work and we look forward to your engagement in the newly reimagined online format for the 2020 Huskies Showcase.

Dan Gregory

Provost and Vice President for Academic Affairs

Clare Rahm

Interim Vice President for Student Life & Development

2020 Huskies Showcase Awardees

Best Our Husky Compact Reflections

Seek and Apply Knowledge

Candice Zhener, Clair Tollefsrud, and September Prushek

Faculty Mentor: Tina Sacin and Andria Belisle, Community Psychology, Counseling and Family Therapy and Student Accessibility Services

Act with Personal Integrity and Civic Responsibility

Jessica Craig

Faculty Mentor: Gareth John, Geography and Planning

Integrate Existing and Evolving Technologies

Subi Dangol

Faculty Mentor: Ramnath Sarnath, Computer Science and Information Technology

Think Creatively and Critically

Yasmin Fatima, Deepika K C, Mala Hamal, and Anoosha Kathi

Faculty Mentor: Abdullah Abu Hussein, Information Systems

Huskies Showcase Finalists

Poster Presentations

Alex Maile, Evolution of Biofluorescence in the Rabbitfishes (Siganidae)

Faculty Mentor: Matthew Davis, Biology

Amira Zaher, The Effect of a Type 1 Diabetes-induced Cellular Stress Caused by Type 1 Diabetes on Megakaryocyte Maturation and Platelet Formation in a Chemically Induced Mouse Model of the Disease

Faculty Mentor: Antonija Jurak Begonja (University of Rijeka, Croatia) and Marina Cetkovic-Cvrlje (St. Cloud State University, Biology)

Aroshi Wijesekara and Eleanor Nelson, Effects of Sodium Bicarbonate Treatment on Adaptive T Cell Immunity in Type 1 Diabetic NOD Mice

Faculty Mentor: Marina Cetkovic-Cvrlje, Biology

Emma Nelson, Effect of Lactobacillus acidophilus on the growth of *Escherichia coli*

Faculty Mentors: Zeljka Maglica (University of Rijeka, Croatia) and Marina Cetkovic-Cvrlje (St. Cloud State University, Biology)

Hannah Judovsky, Factors Influencing Communication Quality of Life in Persons with Aphasia: Results & Implications

Faculty Mentor: Grama Rangamani, Communication Sciences & Disorders

Jeremy O'Hara, Post-Secondary Belongingness Scores: How Peer Wellness Coaching Impacts the Results

Faculty Mentor: Sara DeVos, Social Work

Lindsey Montag, Nick Delaney, and Lauren Julian, Histological Study of the Effects of Sodium Bicarbonate on Pancreatic Inflammatory Lesions in NOD Mice

Faculty Mentor: Marina Cetkovic-Cvrlje, Biology

Lucy Rai Thulung, Endocrine disrupting chemicals and their effects on estrogen receptor

Faculty Mentor: Satomi Kohno, Biology

Mackenzie Forseth, BLASTing to Delftia Identification

Faculty Mentor: Louise Millis and Ryan Fink, Biology

Naqsh E Zafar, Energy Distribution Diagram for Laser Vaporization of Aluminum Space Debris

Faculty Mentor: John Sinko, Physics & Astronomy

Noel Jones, Biogeographic Patterns of the Three-barbeled Catfishes (Heptapteridae: Rhamdia) Across Central America

Faculty Mentor: Matthew Davis, Biology

Riti Shrestha and Lucy Rai Thulung, Enzyme Activity and Kinetics of Cyclohexadienyl Dehydrogenase Followed by Amino Acid Substitution via Site- Directed Mutagenesis: Replacing Histidine with Proline

Faculty Mentor: Nathan Bruender, Chemistry

Tarynn Johnson, Ageism in Health Care: 72 is NOT a Diagnosis

Faculty Mentor: Phyllis Greenberg, Gerontology

Oral Presentations

Alexander Seymour, Biofluorescence in Larval and recently Metamorphosed Ambystoma Salamanders

Faculty Mentor: Jennifer Lamb, Biology

Amira Zaher, Logan Olson, and Jace Engelmann, Study of the Anti-Diabetic Properties of Sodium Bicarbonate in a Mouse Model of Type 1 Diabetes

Faculty Mentor: Marina Cetkovic-Cvrlje, Biology

Andrea Haataja, Performing Culture and Landscape in Lindström Minnesota

Faculty Mentor: Gareth John, Geography and Planning

Casper Groenenboom, Alles Gute zum 150. Geburtstag. SCSU in St. Cloud's German newspaper Der Nordstern with sources from 1876-1917

Faculty Mentor: Isolde Mueller, Languages & Cultures

Ellen Boisen, Toward a Geographic Remodeling of Localized Urban Food Deserts: The Case of St. Cloud

Faculty Mentor: Gareth John, Geography and Planning

Makenzie Anderson, Creation of a Universal Inoculum through the Analysis of Anaerobic Digester Samples

Faculty Mentor: Ryan Fink, Biology

Shantelle Des Marais and Lakshima Hiriptya, Sodium Bicarbonate as a Preventative Treatment for Type 1 Diabetes in NOD Mice

Faculty Mentor: Marina Cetkovic-Cvrlje, Biology

Our Husky Compact Dimensions

Think Creatively and Critically (THINK)

Seek and Apply Knowledge (SEEK)

Communicate Effectively (COMMUNICATE)

Integrate Existing and Evolving Technologies (INTEGRATE)

Engage as a Member of a Diverse and Multicultural World (ENGAGE)

Act with Personal Integrity and Civic Responsibility (ACT)

****Due to the COVID-19 pandemic, the Showcase was moved to an online, virtual event using St. Cloud State's University D2L Brightspace. Please visit the D2L site to view projects that opted-in to participate in the online event. The below list includes all projects that registered for the Huskies Showcase, whether or not they participated in the optional D2L event.****

COLLEGE OF LIBERAL ARTS					
Anthropology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>This Is What Community Should Look Like: an Ethnographic Study of Community Building Within a Local Nonprofit Organization</i>	Maggie Powers	Kelly Branam Macauley	Oral Presentation	SEEK	O40
<i>Reiki and Well-being in Minnesota</i>	Rachel Michl	Kelly Branam Macauley	Oral Presentation	ENGAGE	O109
<i>Observing "Minnesota Nice" at rural County Fairs in Minnesota</i>	Welbec (Bill) Hamm	Kelly Branam Macauley	Oral Presentation	SEEK	O55
<i>A Ground Penetrating Radar Survey of Lower Town at St. Cloud State University</i>	Jonathan Corbin	Rob Mann	Oral Presentation	INTEGRATE	O36
<i>Protecting the Northwest Frontier 1861-1865: The Federal Military Post at Sauk Centre Minnesota</i>	Michael Penrod	Rob Mann	Poster Presentation	SEEK	P30
Art					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Celebrating the Seasons through Art</i>	Ben Toftey, Bigyan Lama Thing	Bill Gorcica	Gallery Exhibit	INTEGRATE	G2
<i>Through Psychogenic Viscera</i>	Scott Scribner	Peter Happel Christian	Gallery Exhibit	THINK	G1
<i>Graphic Design Senior Portfolio Open House</i>	Amy Schroepper	Katya Reka	Demonstration	SEEK	D22
<i>Graphic Design Senior Portfolio Open House</i>	Benjamin Toftey	Katya Reka	Demonstration	SEEK	D24
<i>Graphic Design Senior Portfolio Open House</i>	Bigyan Lama Thing	Katya Reka	Demonstration	SEEK	D11
<i>Graphic Design Senior Portfolio Open House</i>	Caitlyn Jordan	Katya Reka	Demonstration	SEEK	D8
<i>Graphic Design Senior Portfolio Open House</i>	Cole Pecka	Katya Reka	Demonstration	SEEK	D19
<i>Graphic Design Senior Portfolio Open House</i>	Gloria Nwanekpe	Katya Reka	Demonstration	SEEK	D17
<i>Graphic Design Senior Portfolio Open House</i>	Jaci Eatherton	Katya Reka	Demonstration	SEEK	D5
<i>Graphic Design Senior Portfolio Open House</i>	Lea Bergquist	Katya Reka	Demonstration	SEEK	D3
<i>Graphic Design Senior Portfolio Open House</i>	MaKalla Schmitz	Katya Reka	Demonstration	SEEK	D21
<i>Graphic Design Senior Portfolio Open House</i>	Marguerite Crumley	Katya Reka	Demonstration	SEEK	D4
<i>Graphic Design Senior Portfolio Open House</i>	Megan Haas	Katya Reka	Demonstration	SEEK	D6
<i>Graphic Design Senior Portfolio Open House</i>	Pearl Papenfuss	Katya Reka	Demonstration	SEEK	D18
<i>Graphic Design Senior Portfolio Open House</i>	Rilee Marquette	Katya Reka	Demonstration	SEEK	D13
<i>Graphic Design Senior Portfolio Open House</i>	Savannah Kolles	Katya Reka	Demonstration	SEEK	D9
<i>Graphic Design Senior Portfolio Open House</i>	Saw Moo	Katya Reka	Demonstration	SEEK	D16
<i>Graphic Design Senior Portfolio Open House</i>	Scott Scribner	Katya Reka	Demonstration	SEEK	D23
<i>Graphic Design Senior Portfolio Open House</i>	Sofi Kristensen	Katya Reka	Demonstration	SEEK	D10

<i>Graphic Design Senior Portfolio Open House</i>	Sumaiya Raka	Katya Reka	Demonstration	SEEK	D20
<i>Graphic Design Senior Portfolio Open House</i>	Suman Modha	Katya Reka	Demonstration	SEEK	D15
<i>Graphic Design Senior Portfolio Open House</i>	Timothy Johnson	Katya Reka	Demonstration	SEEK	D7
<i>Graphic Design Senior Portfolio Open House</i>	Whoshey Lo	Katya Reka	Demonstration	SEEK	D12
<i>Graphic Design Senior Portfolio Open House</i>	William Meyerhoff	Katya Reka	Demonstration	SEEK	D14
Communication Studies					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Amplify: Expanding Mental Health Dialogue on Campus</i>	Helen Vo, McKenna Klaphake, Brandon Betancourt, Jenna Hemann, Sam Musso, Sam Ostransky, Briannia Pearson, Hannah Thompson	Jen Tuder	Artistic Performance	THINK	AP1
<i>The Litter Box: Progressively Redesigned</i>	Blaze McCoy, Irfan Chowdhury, Hunter Hillestad	Matthew Vorell	Oral Presentation	THINK	O59
<i>SlideUp</i>	Pa Ja Lee, Breanna Herbranson, Dorminga Assani, Chu Vang	Matthew Vorell	Poster Presentation	THINK	P118
Dean's Office					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>SCSU College of Liberal Arts Faculty Advising Guide 2020</i>	Natalie Gottschalk	Hien Studniski	Poster Presentation	COMMUNICATE	P31
English					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>"Where am I and how did I get here?" An Examination of the Unknown In Patrick McHale's "Over the Garden Wall" as an American Animated Otherworld</i>	Kayla Justice	Matt Barton	Oral Presentation	THINK	O26
<i>The Alt-Right a Discourse Analysis</i>	Michael Fry	Matt Barton	Oral Presentation	ACT	O25
<i>The Work</i>	Casey Fuller	Sharon Cogdill	Artistic Performance	THINK	AP2
History					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Pushing Back: Lesbian resistance against the Nazis</i>	Kassandra Saphire	Jason Eden	Oral Presentation	ENGAGE	O41
<i>A Quite Town with a Loud History</i>	Austin Eastwood, Jacob Conover	Robert Galler	Oral Presentation	SEEK	O94
<i>Sauk Centre</i> <i>Community Partner:</i> Sauk Centre Historical Society, Sauke Centre, MN	Blaine Olson, Christopher Boots	Robert Galler	Oral Presentation	THINK	O53
<i>Inspiration From a Small River Town-Little Falls</i>	Brenda Rudolph	Robert Galler	Oral Presentation	SEEK	O113

<i>The Diverse History of Duluth</i>	Brian Neumeister	Robert Galler	Oral Presentation	SEEK	O111
<i>Looking into Anoka</i>	Caitlin Kantola	Robert Galler	Oral Presentation	SEEK	O110
<i>Debunking Myths about the town of Little Falls</i>	Caleb Campbell	Robert Galler	Oral Presentation	THINK	O44
<i>The Glories of St. Paul</i>	Cassie Brown, Rose Johnson	Robert Galler	Oral Presentation	THINK	O93
<i>More Than Sinclair Lewis: The Development of Sauk Center, Minnesota</i>	Chris Boots	Robert Galler	Oral Presentation	SEEK	O48
<i>Duluth: A Multiplex of Human Experiences</i>	Christian Noyes, Kyle Larsen	Robert Galler	Oral Presentation	SEEK	O49
<i>Economic History of Sauk Center</i>	Jacob Smith	Robert Galler	Oral Presentation	THINK	O46
<i>Starting from ground zero - The success of White Earth Reservation</i>	Jason Probst	Robert Galler	Oral Presentation	SEEK	O114
<i>Anoka County: Logging and Industry</i>	Jennifer Sonterre	Robert Galler	Oral Presentation	SEEK	O42
<i>Campus Laboratory School</i>	Joshua DeRoode, Sue Nelson, Andrea Deutsch	Robert Galler	Oral Presentation	SEEK	O28
<i>Duluth and the Modern World</i>	Kyle Larsen, Christian Noyes	Robert Galler	Oral Presentation	THINK	O112
<i>Tower, MN: More than a Mining Town</i>	Marissa Hendrickson	Robert Galler	Oral Presentation	ENGAGE	O29
<i>Iron Giants: Corporations of the Mesabi Iron Range</i>	Michelle Skroch	Robert Galler	Oral Presentation	SEEK	O43
<i>Little Falls and the Big Picture</i>	Nathan Block	Robert Galler	Oral Presentation	ENGAGE	O89
<i>A Look at Duluth</i>	Pamela Ogoye	Robert Galler	Oral Presentation	SEEK	O52
<i>A Small Town with Big Development</i>	Patricia Wollan	Robert Galler	Oral Presentation	THINK	O27
<i>The Lower Sioux Reservation, 1862 Uprising and the Dakota People - Debunking the stereotypes</i>	Rajitha Dissanayake, Yoshiko A. Rosales	Robert Galler	Oral Presentation	THINK	O47
<i>Diverse Ethnic Groups in St. Paul</i>	Rose Johnson	Robert Galler	Oral Presentation	SEEK	O90
<i>Why Anoka is an Exciting County</i>	Sam Poppen	Robert Galler	Oral Presentation	ENGAGE	O92
<i>Decoding the Myths of Main Street: an Historical Analysis of Sauk Centre, Minnesota</i>	Stephan Jacobson	Robert Galler	Oral Presentation	SEEK	O45
<i>Dakota History is Minnesota History: The Importance of Education on the Lower Sioux Dakota Tribe</i>	Yoshiko Rosales, Jayasinghe Dissanayake	Robert Galler	Oral Presentation	THINK	O50
<i>A Strange Case of Compromise: 1877</i>	Jennifer Sonterre	Robert Galler, Jason Eden	Oral Presentation	SEEK	O16
<i>Hip Hop's Case for Freedom</i>	Curtis Kendrick Walton	Mark Jaede	Oral Presentation	ENGAGE	O54

Languages & Cultures					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Alles Gute zum 150. Geburtstag. SCSU in St. Cloud's German newspaper Der Nordstern with sources from 1876-1917</i>	Casper Groenenboom	Isolde Mueller	Oral Presentation	SEEK	O3
<i>Alles Gute zum 150. Geburtstag. SCSU in St. Cloud's German newspaper Der Nordstern with sources from 1876-1917</i>	Casper Groenenboom, Guliano Merino, Lauren Glassbrenner, David Zietlow, Jason Klosinski, Mohamed Yusuf, Brittney La Faive, Victoria Volkmann	Isolde Mueller	Oral Presentation	SEEK	O120
Mass Communications					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Road to Recovery- Elaina's Journey Through Mental Health</i>	Elaina Fourniea, Connie Knipe	Kahar Cainion	Oral Presentation	SEEK	O15
<i>Protests and Pepper Spray</i>	Mark Wasson	Juli Pitzer	Oral Presentation	THINK	O23
<i>SCSU Histories: Studying Abroad to Alnwick Castle</i>	Elaina Fourniea, Noah Thompson	Juli Pitzer, Robert Galler	Oral Presentation	SEEK	O17
<i>From Struggle to Success</i>	Kylee Glen, Marissa Hendrickson, Mark Wasson	Juli Pitzer, Robert Galler	Oral Presentation	THINK	O30
Philosophy					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>The democratic case for open borders</i>	Christopher Vadner	Paul Neiman	Oral Presentation	THINK	O57
<i>The Ethics of Deportation</i>	James Serkland	Paul Neiman	Oral Presentation	ACT	O56
<i>Flourishing Life vs. Immigration</i>	Joey Streeter	Paul Neiman	Oral Presentation	SEEK	O58
<i>Same Nativism different Immigrants.</i>	Sidney Alfonso	Paul Neiman	Oral Presentation	ENGAGE	O115
Psychology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Public perceptions about dementia risk and prevention in Minnesota</i>	Smita Khobragade	Amanda Hemmesch, Jim Cottrill	Poster Presentation	SEEK	P114
<i>A Psychophysical Method for Investigating Human Color Vision</i>	Smita Khobragade, Shukri Hassan	Jamie Opper	Poster Presentation	SEEK	P116
<i>Memory for People in Places</i>	Sean Bresnahan	Leslie Valdes	Poster Presentation	SEEK	P117

Sociology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Applying knowledge in social research: SOC 303 students share their SCSU student survey results</i>	Breck Weber, Erica Anderson, Abol Barnaba, Paige Boman, Brittney Clark, Nancy Dolo, Amanda Fahrendorff, Matthew Hernandez, Elaina Junes, Nia Kline, Gretchen Olsen, Brianna Pace, Owen Riley, Cole Schoon, Paige Underhill, Kong Vang	Sandrine Zerbib	Oral Presentation	SEEK	O60
<i>Unleashed Opinions: SCSU 2020 student spring survey results</i>	Curan Hansen, Smita Khobragade, Lily Chamerski, Margaret Oliver, Briita Kinnunen, Sydney Breden, Jonathan Z Wong, Kyle Janssen, Alamea Matonich, Ansai Fatou BioSawe	Sandrine Zerbib, Jim Cottrill, Ann Finan	Oral Presentation	SEEK	O61
COLLEGE OF SCIENCE AND ENGINEERING					
Atmospheric & Hydrologic Sciences					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Unusual dentition in the extinct fish <i>Coccolepis</i> (Osteichthyes: Actinopterygii) from the Jurassic Lyme-Regis region of Dorset, England</i>	Krista Anderson	Sarah Gibson, Matthew Davis	Poster Presentation	SEEK	P134
<i>Analysis of Sediment Core #4 from the Fire Station Stormwater Pond, City of Blaine</i> <u>Community Partner:</u> City of Blaine, Blaine, MN	Benedict Thoms-Warzecha, Nomindalai Bat-erdene	Katherine Pound	Poster Presentation	SEEK	P140
<i>Analysis of Sediment Core #1, Fire Station Storm water Pond, City of Blaine.</i> <u>Community Partner:</u> City of Blaine, Blaine, MN	Brook Hoffman, Samantha Mills	Katherine Pound	Poster Presentation	SEEK	P36
<i>Analysis of Sediment Core #3, Fire Station Stormwater pond, City of Blaine</i> <u>Community Partner:</u> City of Blaine, Blaine, MN	Jacob Debelak, Keith Korsmo, Kenneth Christenson	Katherine Pound	Poster Presentation	SEEK	P153
<i>Blast of the Bottom! Analysis of Core Sample #2</i> <u>Community Partner:</u> City of Blaine, Blaine, MN	Nicole Gammel, Joey Melser	Katherine Pound	Poster Presentation	SEEK	P152

Biology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>The Effect of a Type 1 Diabetes-induced Cellular Stress Caused by Type 1 Diabetes on Megakaryocyte Maturation and Platelet Formation in a Chemically Induced Mouse Model of the Disease</i> <u>Community Partner:</u> *University of Rijeka, Croatia	Amira Zaher	Antonija Jurak Begonja* Marina Cetkovic-Cvrlje	Poster Presentation	SEEK	P11
<i>Study of the Anti-Diabetic Properties of Sodium Bicarbonate in a Mouse Model of Type 1 Diabetes</i>	Amira Zaher Logan Olson Jace Engelmann	Marina Cetkovic-Cvrlje	Oral Presentation	SEEK	O4
<i>Opioid Epidemic in the United States- Compared to a Global Perspective</i>	Areej Zahra	Marina Cetkovic-Cvrlje	Oral Presentation	SEEK	O9
<i>Effects of Sodium Bicarbonate Treatment on Adaptive T Cell Immunity in Type 1 Diabetic NOD Mice</i>	Eleanor Nelson, Aroshi Wijesekara	Marina Cetkovic-Cvrlje	Poster Presentation	SEEK	P9
<i>Effect of Lactobacillus acidophilus on the growth of Escherichia coli</i> <u>Community Partner:</u> *University of Rijeka, Croatia	Emma Nelson	Zeljka Maglica* Marina Cetkovic-Cvrlje	Poster Presentation	SEEK	P10
<i>Effects of Sodium Bicarbonate on Cytokine Production During the Development of Type I Diabetes in NOD Mice</i>	Jenna Nelson	Marina Cetkovic-Cvrlje	Oral Presentation	SEEK	O10
<i>Histological Study of the Effects of Sodium Bicarbonate on Pancreatic Inflammatory Lesions in NOD Mice</i>	Lindsey Montag, Nick Delaney, Lauren Julian	Marina Cetkovic-Cvrlje	Poster Presentation	SEEK	P8
<i>Sodium Bicarbonate as a Preventative Treatment for Type 1 Diabetes in NOD Mice</i>	Shantelle Des Marais Lakshima Hiripitiya	Marina Cetkovic-Cvrlje	Oral Presentation	SEEK	O5
<i>Evolution of Biofluorescence in the Rabbitfishes (Siganidae)</i>	Alex Maile	Matthew Davis	Poster Presentation	SEEK	P12
<i>Biogeographic Patterns of the Three-barbeled Catfishes (Heptapteridae: Rhamdia) Across Central America</i> <u>Community Partner:</u> The Field Museum of Natural History, Chicago, IL	Noel Jones	Matthew Davis	Poster Presentation	SEEK	P1
<i>Survey of Locomotion Patterns of Deep-sea Fishes</i>	Shireen Delfanian	Matthew Davis	Poster Presentation	SEEK	P21
<i>Anaerobic digestion and a Core Microbiome: An Open Question in Need of an Answer</i>	Andrii Vatulin	Ryan Fink	Poster Presentation	SEEK	P16
<i>Comparative Analysis of Methanogen Growth- SAB versus BHI Media</i>	Benjamin Gutschow	Ryan Fink	Poster Presentation	SEEK	P22

<i>Comparison of Antibiotic Properties between Pseudomonas aeruginosa and an Unknown Delftia Isolate</i>	Colton Tuve	Ryan Fink	Poster Presentation	SEEK	P133
<i>Transcriptional Analysis of Campylobacter jejuni Adhesion Within the Rhizoplane of Spinacia oleracea</i>	David Reimer	Ryan Fink	Poster Presentation	SEEK	P17
<i>Creation of a Universal Inoculum through the Analysis of Anaerobic Digester Samples</i>	Makenzie Anderson	Ryan Fink	Oral Presentation	SEEK	O1
<i>Expression, Purification and Characterization of Cyclohexadienyl Dehydrogenase and Pyrroline-5-Carboxylate Reductase from Sinorhizobium meliloti</i>	Aasish Pradhananga, Xeroxa Joshi, Kavindi M Wijesekara	Bruce Jacobson	Poster Presentation	THINK	P23
<i>Endocrine disrupting chemicals and their effects on estrogen receptor</i>	Lucy Rai Thulung	Satomi Kohno	Poster Presentation	SEEK	P13
<i>The role of Methylene diphosphonic acid in inhibiting Antibiotic resistance in E.coli through Horizontal Gene Transfer</i>	Michael Shiferaw	Christopher Kvaal	Poster Presentation	INTEGRATE	P24
<i>Biofluorescence and Sexual Dichromatism in Frogs</i>	Alexander Seymour	Jennifer Lamb	Poster Presentation	SEEK	P32
<i>Biofluorescence in Larval and recently Metamorphosed Ambystoma Salamanders</i>	Alexander Seymour	Jennifer Lamb	Oral Presentation	SEEK	O2
<i>A Tad Confusing: Comparing the Morphology of True Frog Tadpoles (Family Ranidae)</i>	Bailey Richards, Alexander Seymour	Jennifer Lamb	Poster Presentation	SEEK	P136
<i>Improving Classroom Behavior</i>	Catherine Julius	Felicia Leammukda	Poster Presentation	SEEK	P26
<i>Student Motivation in a Science Classroom</i>	Erica Meyers	Felicia Leammukda	Poster Presentation	ACT	P33
<i>Checking in and Checking Out</i>	Karrina DePas, Amanda Wolf, Victor Higdon, Josh Gerick	Felicia Leammukda	Poster Presentation	ACT	P156
<u>Community Partner:</u> Big Lake High School, Big Lake, MN					
<i>Pairing Efficacy of Alternative Assignment in a High School Context</i>	Marikathryn Wegeleben, Brandon Morris	Felicia Leammukda	Poster Presentation	SEEK	P25
<u>Community Partner:</u> Tech High School, St. Cloud, MN					
<i>BLASTing to Delftia Identification</i>	Mackenzie Forseth	Louise Millis, Ryan Fink	Poster Presentation	SEEK	P2
<i>Fathead Minnows and The Aftermath of Chemicals in The Environment</i>	Charles Christen	Heiko Schoenfuss	Oral Presentation	SEEK	O20
<i>Life-Cycle Exposure of Fathead Minnows to Complex Environmental Mixtures</i>	Chryssa King	Heiko Schoenfuss	Oral Presentation	SEEK	O11
<u>Community Partner:</u> United States Fish and Wildlife Service, Minneapolis, MN					

<i>Quantifying Maturation Stages of the Brown Catfish (Ameiurus nebulosus) Reproductive System from the Cuyahoga River</i>	Yasmeena Thabet, Mahmoud Hashish	Heiko Schoenfuss	Oral Presentation	SEEK	O19
Chemistry & Biochemistry					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>The Effect of Single Amino Acid Mutation on Cyclohexadienyl Dehydrogenase Activity</i>	Amira Zaher, Charles Christen	Nathan Bruender	Poster Presentation	SEEK	P127
<i>Single-point Mutation of Lys 75 Residue Effects on Pyrroline-5-Carboxylate Reductase (ProC) Gene Expression in Escherichia coli</i>	Annisa Rumahorbo, Xeroxa Joshi	Nathan Bruender	Poster Presentation	SEEK	P20
<i>Study of Site-Directed Mutagenesis in Pyrroline-5-carboxylate Reductase</i>	Garrett Moran, Aasish Pradhananga	Nathan Bruender	Poster Presentation	SEEK	P131
<i>Implementing GMP Reductase to Model the Enzyme Kinetics of ToyH Involved in the Purine Salvage Pathway</i>	James Nibbe	Nathan Bruender	Oral Presentation	THINK	O62
<i>The Generation and Analysis of Mutated T233 to E233 Pyrroline-5-Carboxylate Enzyme</i>	Justin Schroepfer, Kavindhi Wijesekara	Nathan Bruender	Poster Presentation	SEEK	P132
<i>Kinetics of Cyclohexadienyl Dehydrogenase Resulting from a Serine to Cysteine Mutation in the Active Site</i>	Landon Kobluk, Chaz Cernohous-Schrader	Nathan Bruender	Poster Presentation	SEEK	P122
<i>The Evolutionary Roots of Hypoxanthine-Guanine-Xanthine Phosphoribosyltransferase</i>	Madeline Lundblad	Nathan Bruender	Oral Presentation	SEEK	O64
<i>Determination of Phosphoribosyltransferase Enzymes Through Cloning, Expression, and Purification</i>	Mia Giorgi, Brooke Schlangen	Nathan Bruender	Poster Presentation	SEEK	P121
<i>The effect of site directed mutagenesis of proline to glutamic acid on cyclohexadienyl dehydrogenase in E.coli.</i>	Michael Shiferaw, Yimleng Xiong, Blake Wood	Nathan Bruender	Poster Presentation	SEEK	P126
<i>Mutation to Function: A New World for Agriculture</i>	Nichole Erickson, Brigita Fiske	Nathan Bruender	Poster Presentation	SEEK	P123
<i>Enzyme Activity and Kinetics of Cyclohexadienyl Dehydrogenase Followed by Amino Acid Substitution via Site- Directed Mutagenesis: Replacing Histidine with Proline</i>	Riti Shrestha, Lucy Rai Thulung	Nathan Bruender	Poster Presentation	SEEK	P7
<i>Transformation and Expression Gene Mutation in E.Coli</i>	Robert Anderson, Tylor Veldhuizen	Nathan Bruender	Poster Presentation	SEEK	P125

<i>Characterization of a Point Mutation in Cyclohexadienyl Dehydrogenase for L-Tyrosinase Production</i>	Sabina Dhakal, Subeksha Subedi	Nathan Bruender	Poster Presentation	SEEK	P129
<i>Effects of pyrroline-5-carboxylate reductase mutation</i>	Samantha Tscheppen, Alec Hafferman	Nathan Bruender	Poster Presentation	SEEK	P124
<i>Direct Mutation of DNA: Transforming Pyrroline-5-Carboxylate Reductase</i>	Shiva Sapkota, Kshitiz Wagle	Nathan Bruender	Poster Presentation	SEEK	P130
<i>Purification and Characterization of a Putative Adenylosuccinate Lyase (Toy F) Involved In Toyocamycin Production</i>	Subeksha Subedi	Nathan Bruender	Poster Presentation	SEEK	P120
<i>A Mutation of Sinorhizobium Meliloti 1021</i>	Tessa Gilson, Alexei Mikolchak	Nathan Bruender	Poster Presentation	SEEK	P128
<i>West African Traditional Medicine: A Gateway to Further Biochemical Insight of Diabetes (A Literature Review)</i>	Nihmotullahi Adesalu	Nathan Bruender, Michael Dvorak	Oral Presentation	ENGAGE	O63
<i>Senior Thesis Presentation - Synthesis and Characterization of Hentschelite</i>	Desirae Rasmussen	Christina Cama	Oral Presentation	SEEK	O67
<i>Synthesis of Calcium Manganate from Metal Nitrates by Co-Precipitation</i>	Eric Jensen	Christina Cama	Oral Presentation	THINK	O68
<i>A Study of the Synthesis of Copper Iron Pyrophosphate</i>	Eric Peters	Christina Cama	Oral Presentation	SEEK	O65
<i>The Synthesis and Analysis of Calcium Manganese(IV) Oxide Nanoparticles</i>	Natalie Bartell	Christina Cama	Oral Presentation	THINK	O66
<i>Inhibition of Acetylcholinesterase</i>	Yimleng Xiong	Michael Dvorak	Oral Presentation	THINK	O70
<i>Synthesis and Characterization of Lanthanide-3-Thiophene Acetic Acid Complexes</i>	Beatrice Lenss	Michael Dvorak, Rodney Tigaa	Oral Presentation	THINK	O69
<i>Expression, Purification and Characterization of Cyclohexadienyl Dehydrogenase and Pyrroline-5-Carboxylate Reductase from Sinorhizobium meliloti</i>	Aasish Pradhananga	Bruce Jacobson	Oral Presentation	THINK	O18
<i>Chemistry Escape Room Re-Design</i>	Pearl Papenfuss, Bigyan Lama Thing	Bruce Jacobson	Oral Presentation	THINK	O71
<i>Malaria: Drugs, Challenges and Prevention (A Literature Review)</i>	Rostand Kom Tchuenta	Bruce Jacobson	Oral Presentation	THINK	O72
<i>2-oxo-14-(3-methoxyphenyl)tetradecane</i>	John Kennedy	Mark Mechelke	Oral Presentation	THINK	O73
<i>Natural Product Synthesis Derived from Piper Sanctum</i>	Mia Giorgi	Mark Mechelke	Oral Presentation	SEEK	O74

<i>Synthetic Analogues of the Plant Piper sanctum as Potential Treatments for Tuberculosis</i>	Emily Bettinger	Mark Mechelke, Michael Dvorak	Oral Presentation	SEEK	O75
<i>Selectivity of Hydroxyl Radical Reactions on Polycyclic Aromatic Hydrocarbons (PAHs) in Organic Solvents.</i>	Nathaniel Pfeiffer	James Poole	Oral Presentation	SEEK	O76
<i>Expression, Purification and Characterization of Cyclohexadienyl Dehydrogenase and Pyrroline-5-Carboxylate Reductase from Sinorhizobium meliloti</i>	Kavindhi Wijesekara	Kannan Sivaprakasam	Oral Presentation	SEEK	O78
<i>Understanding the relationship between spectroscopic and mechanical properties of Graphene-Polymer Composites</i>	Gadeir Ali	Kannan Sivaprakasam	Poster Presentation	SEEK	P143
Computer Science & Information Technology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Extraction, Analysis, and Modification of Vehicle Firmware at Rest and in Transi</i> <u>Community Partner:</u> Oak Ridge National Laboratory, Oak Ridge, TN	Abdulrahman Al-Sharabati	Andrew Anda	Poster Presentation	THINK	P119
<i>Improved Algorithms for a Common Assignment Problem</i>	Subi Dangol	Ramnath Sarnath	Poster Presentation	INTEGRATE	P15
Electrical & Computer Engineering					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Advancing Research on Cry-Induced Infant Head Trauma with an Automated Baby Datalogger</i>	Melvin Schmid	Mark Petzold, Benjamin Witts	Demonstration	SEEK	D1
<i>Implementation of a real-time digital signal processing system using PIC micro controller and GUI</i>	Manish Ale Magar, Shubham KC	Shensheng Tang	Demonstration	INTEGRATE	D25
<i>PIC Microcontroller Based Temperature Monitoring System</i>	Monali Sinare, Nicol Anokhin	Shensheng Tang	Demonstration	SEEK	D2
<i>Printing Electronic Circuits Using Direct Write UV-Photolithography</i>	Aquib Al Ahmed Immanuel, Suman Silwan, Asif Raza	Timothy Vogt	Poster Presentation	INTEGRATE	P147
<i>Microscopic Thermal Imaging</i>	Susan Tiwari, Avishek Koiraka	Timothy Vogt	Poster Presentation	INTEGRATE	P146
Environmental & Technological Studies					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Coldspring Granite "Marker Department" Line Improvements</i> <u>Community Partner:</u> Coldspring Granite, Cold Spring, MN	Jack Bunnell, Andrew Carlson, Casey Sanders, Max Jaafari	Nancy Sundheim	Applied Experience Display	INTEGRATE	A144

<i>American Axle and Manufacturing Senior Capstone Project - M.E.T.</i>	Kyle Cielinski, Madelin Dammann, Maverick Carlson, Darien Prow	Nancy Sundheim	Poster Presentation	SEEK	P145
<u>Community Partner:</u> American Axle & Manufacturing, St. Cloud, MN					
<i>Louis Industries Kitting Process Improvement</i>	Noah Prodzinski, Jacob Cihlar, Noah Martens	Nancy Sundheim	Poster Presentation	SEEK	P155
<u>Community Partner:</u> Louis Industries, Paynesville, MN					
Mechanical & Manufacturing Engineering					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>3M Production Automation</i>	Jessica Orr, Sarah Malinowski, Mohamed Shiyam, Mohamed Arafath	Steven Covey	Poster Presentation	THINK	P151
<u>Community Partner:</u> 3M, Eden Prairie, MN					
<i>Plastic Extrusion Machine for Production of Handwork Hardware, Double Pointed Knitting Needle Sorter and Gauge</i>	Grant Studer, Michael Evers, Chris Hansen, Jordan Lindenfelser	Eric Little	Poster Presentation	INTEGRATE	P138
<u>Community Partner:</u> Handwork Hardware, Minneapolis, MN					
<i>Lens Locating and Flipping Mechanism</i>	Jonathan Oleson, Bader Abdulrahim, Chad Klepsa, Jonathan Knafla	Eric Little	Applied Experience Display	INTEGRATE	A137
<i>Formula SAE, Forced Induction Kit</i>	Johnathan Garcia, Tim Byman	Kenneth Miller	Poster Presentation	INTEGRATE	P139
<u>Community Partner:</u> Ultra Machining Company, Inc., Monticello, MN					
<i>Horizon Roofing AFS Module</i>	Jacob Seifert, David Vasquez, Alvaro Robles Ramirez, Tommy Yang	John Mirth	Poster Presentation	THINK	P27
<u>Community Partner:</u> Horizon Roofing, Waite Park, MN					
<i>Robotic Deburring Knife Sorting</i>	Andrew Ortloff, Carlos Rojas, Michael Then, Ashley Triplett	A. Serdar Sezen	Poster Presentation	INTEGRATE	P154
<u>Community Partner:</u> RMS Company, Coon Rapids, MN					
<i>Implementation of a pull system for Chart Industries, Inc.</i>	Chamira Manthrige, Shiyam Kannan, Pranav Mandlik, Kavya Pokuri, Vaishnavi Sattagopam	Hiral Shah	Oral Presentation	SEEK	O31
<u>Community Partner:</u> Chart Industries, Inc., New Prague, MN					
<i>Application of Facilities Systems Management Approach at a restaurant</i>	Haritha Gorla, Sindooru Talakokula, Anusha Kavva, Mounika Telukuntla	Hiral Shah	Oral Presentation	SEEK	O14
<u>Community Partner:</u> India Garden, Milwaukee, WI					
<i>Design of Experiments for characterizing the Mass Grinding Process</i>	Pooja Pawar, Prashant Sharma, Venkata viswanath Kajjam	Hiral Shah	Oral Presentation	INTEGRATE	O38

<i>Improving Material Flow and Storage at a Precision Machining Facility</i>	Victor Rojas, Tianyu Lu, Jessica Mukazi Ngango, Jared Selvamoney	Hiral Shah	Oral Presentation	SEEK	O39
<i>Silent Drive Kerosene Forced Air Heater</i> <u>Community Partner:</u> Pinnacle Climate Technologies, Sauk Rapids, MN	Nathanael Przybilla, Tyler Priem, Matthew Kjos	Yongli Zhao	Poster Presentation	THINK	P148

Physics & Astronomy					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Laser Ablation of Aluminum by Varying Pulse Duration</i>	Aquib Al Ahmed Immanuel	John Sinko	Poster Presentation	THINK	P142
<i>Laser Production and Characterization of Zinc-Oxide Nanoparticles</i>	Bijaya Ghorasainee, Sanjeev Regmi	John Sinko	Oral Presentation	THINK	O21
<i>Laser Ablation of Space Debris</i>	Drew Fobbe	John Sinko	Poster Presentation	SEEK	P141
<i>Laboratory Simulated Supernova Shock Waves</i>	Elatia Zaffke	John Sinko	Oral Presentation	SEEK	O77
<i>Energy Distribution Diagram for Laser Vaporization of Aluminum Space Debris</i>	Naqsh E Zafar	John Sinko	Poster Presentation	SEEK	P14

HERBERGER BUSINESS SCHOOL					
Information Systems					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Social Commerce Security, Privacy and Trust</i>	Yasmin Fatima, Deepika K C, Mala Hamal, Anoosha Kathi	Abdullah Abu Hussein	Oral Presentation	THINK	O12
<i>Automated CAPTCHA Solver using AWS Rekognition</i>	Taesig Ahn, Paul Voeltz, Shei Sze Bong	Abdullah Abu Hussein	Poster Presentation	INTEGRATE	P34
<i>Tax Fraud</i>	Ajar Shrestha, Shubhanjan Shah, Aksana Nepal, Ashutosh Pradhan, Shraddha Nakarmi	Erich Rice	Oral Presentation	INTEGRATE	O84
<i>IT Security Awareness: An Overview</i>	Bandana Byanjankar, Sunny Chawla, Sohail Alam, Shyam Katuwal, Shiva Subedi, Ipran Shrestha	Erich Rice	Oral Presentation	INTEGRATE	O83
<i>Fishing Emails and Calls</i>	Bibek Khadka, Swarnim Pradhan Ahmed M Bugshan, Michael Sorensen	Erich Rice	Oral Presentation	ACT	O79
<i>It's a trap, don't fall for it!</i>	Cubie Shrestha, Siddhartha Shrestha, Sajjan Shrestha, Krishna Maharjan, Andrew Bennin, Nishant Kafley	Erich Rice	Oral Presentation	SEEK	O82

<i>Ransomware Aware and Demonstration</i>	Jake Lieser, Stacy Nelson, Troy Kluver, Jake Evensen, Adounola J Bohiki, Anna Ndri, Ouede Louan	Erich Rice	Oral Presentation	INEGRATE	O81
<i>'Are you yourself?'</i>	Mohamed Al Makeerat, Ali Akram	Erich Rice	Oral Presentation	COMMUNICATE	O80
<i>3D Printing on Car or Vehicle Part</i>	Ahmed Noor	Mark Schmidt	Poster Presentation	ACT	P150
<i>The murder case of Connie</i>	Doua Moua, Bibek Gurung	Mark Schmidt	Oral Presentation	INTEGRATE	O35
<i>A comprehensive taxonomy of SQL-injection attacks</i>	Hassan Hirei	Mark Schmidt	Oral Presentation	INTEGRATE	O32
<i>Neural-Network Based Intrusion Detection Systems</i>	Kyle Rozendaal	Mark Schmidt	Oral Presentation	INTEGRATE	O33
<i>Ransomware: Effects, Incidents of Compromise, and Evidence of a Crime</i>	Kyle Rozendaal, Yen-Ting Guo	Mark Schmidt	Oral Presentation	INTEGRATE	O119
<i>Digital forensics 681</i>	Naif Alhajri, Amer Alkharashgah	Mark Schmidt	Oral Presentation	INTEGRATE	O34
<i>Facial Recognition for Attendance</i>	Omar Shukri	Mark Schmidt	Poster Presentation	INTEGRATE	P149
<i>Mobile Device Security</i>	Susmita Kunwor	Mark Schmidt	Oral Presentation	INTEGRATE	O85
<i>Solving Industrial Espionage Case Using Digital Forensics Tools</i>	Yasmin Fatima, Siva Naga L Swamy	Mark Schmidt	Oral Presentation	SEEK	O37
<i>The Effect of Virtual Reality on College Enrollment and Retention</i>	Bishesh Karki	Jieyu Wang	Oral Presentation	INTEGRATE	O88
<i>Enhancing Learning Through AR Technology</i>	Pasang Lama Sherpa, Diya Shrestha, Sandhya Shrestha, Amirul Khondker	Jieyu Wang	Poster Presentation	INTEGRATE	P28

SCHOOL OF EDUCATION

Educational Leadership & Higher Education

Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Senate Finance Committee Processes and Efficiencies</i>	Luke Grundmeyer	Rachel Friedensen	Applied Experience Display	COMMUNICATE	A38
<i>Student Programming in a Community College Setting</i>	Sidra Siddiqui	Rachel Friedensen	Poster Presentation	ACT	P37
<i>Community Partners:</i> Normandale Community College Center for Experiential Education, Bloomington, MN					
<i>Department of Campus Involvement (DCI) Summer Practicum Experience</i>	Tracy Gust	Jennifer Jones	Poster Presentation	SEEK	P39
<i>Study Abroad Improvements in Terra Dotta</i>	Alex Halvorson	Steven McCullar	Poster Presentation	INTEGRATE	P45
<i>Closing the Persistence Gap - An Observational Study</i>	Brandon Douglas	Steven McCullar	Poster Presentation	SEEK	P46

<i>Persistence Through Involvement</i> <u>Community Partner:</u> Hennepin Technical College, Brooklyn Park, MN	Corey Young	Steven McCullar	Poster Presentation	ENGAGE	P42
<i>How Changes Happen: Research and Policy in Higher Education</i> <u>Community Partner:</u> Office of Higher Education, St. Paul, MN	Elizabeth Fenske	Steven McCullar	Poster Presentation	THINK	P40
<i>Degrees When Due & Academic Advising</i> <u>Community Partner:</u> Anoka-Ramsey Community College, Coon Rapids, MN	Fabiola Diaz	Steven McCullar	Poster Presentation	SEEK	P44
<i>Marketing in Student Affairs</i> <u>Community Partner:</u> Southwest Minnesota State University, Marshall, MN	Jessica Bentley	Steven McCullar	Poster Presentation	COMMUNICATE	P47
<i>Expanding Campus-Wide Usage of EAB's Navigate</i>	Michelle Stoner	Steven McCullar	Poster Presentation	INTEGRATE	P43
<i>Graduate Intern: Career Services Department</i>	Zaynab Elshershaby	Steven McCullar	Poster Presentation	SEEK	P48
<i>Exploring Campus Pride Housing with the Best Practices Model of Living-Learning Communities at St. Cloud State University</i>	Sean VanEvery	Steven McCullar, Seth Kaempfer	Applied Experience Display	THINK	A41
Human Relations & Multicultural Education					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Asia as our Technology Landfill: A Feminist Perspective</i>	Kayla Nessmann	Tamrat Tademe	Oral Presentation	ACT	O22
Teacher Development					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Leadership improvement skills of student employees in a diverse higher education.</i>	Sangyoon Park	Yun Claire Park	Applied Experience Display	SEEK	A49
SCHOOL OF HEALTH AND HUMAN SERVICES					
Communication Sciences & Disorders					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>The relationship between Gestures and Speech in Monolingual English and Bilingual Indian-English Speakers</i>	Lucia Laituri, Katelyn Koshiol	Mili Mathew	Poster Presentation	SEEK	P165
<i>The influences of Language and Culture on Hand Gestures: Evidence from Monolinguals and Bilinguals</i>	Noor Aljabari	Mili Mathew	Poster Presentation	SEEK	P164
<i>Factors Influencing Communication Quality of Life in Persons with Aphasia: Results & Implications</i>	Hannah Judovsky	Gramma Rangamani	Poster Presentation	SEEK	P5

Community Psychology, Counseling and Family Therapy					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Expanding Support for Students with Autism and ADHD at St. Cloud State University</i>	Candice Zehner, Claire Tollefsrud, September Prushek	Tina Sacin, Andria Belisle	Poster Presentation	SEEK	P6
Gerontology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Ageism in Health Care: 72 is NOT a Diagnosis</i>	Tarynn Johnson	Phyllis Greenberg	Poster Presentation	SEEK	P4
Kinesiology					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Community Health Internship at ISD 15</i>	Andrea Frank	H. Giovanni Antunez	Applied Experience Display	ACT	A162
<i>Cultural Competence</i>	Erica Kaonga	H. Giovanni Antunez	Applied Experience Display	ENGAGE	A160
<i>County Public Health Internship</i>	Halle Johnson	H. Giovanni Antunez	Applied Experience Display	THINK	A159
<u>Community Partner:</u> Meeker County Public Health, Litchfield, MN					
<i>Minser Chiropractic Internship</i>	Hallie Theodosopoulos	H. Giovanni Antunez	Applied Experience Display	SEEK	A158
<u>Community Partner:</u> Minser Chiropractic, St. Cloud, MN					
<i>Internship experience with Healthy Huskies</i>	Kallie Kammer	H. Giovanni Antunez	Applied Experience Display	SEEK	A157
<i>Arise Cares</i>	Sofya Semanduev	H. Giovanni Antunez	Applied Experience Display	ENGAGE	A163
<i>mental health and society</i>	Yuliya Gemechu	H. Giovanni Antunez	Poster Presentation	COMMUNICATE	P161
Social Work					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Post-Secondary Belongingness Scores: How Peer Wellness Coaching Impacts the Results</i>	Jeremy O'Hara	Sara DeVos	Poster Presentation	SEEK	P3
SCHOOL OF PUBLIC AFFAIRS					
Economics					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Abdinur Muqtar, Abdullahi Bedel	Monica Garcia-Perez	Oral Presentation	SEEK	O97

<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Anna Nelson, Hanna Mayhew	Monica Garcia-Perez	Oral Presentation	SEEK	O96
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Betty Grell, Marylin Rodriguez	Monica Garcia-Perez	Oral Presentation	SEEK	O99
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Bryan Karp, Wyatt Primus	Monica Garcia-Perez	Oral Presentation	SEEK	O100
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Chaska Whitehorse, Joshua Velasquez	Monica Garcia-Perez	Oral Presentation	SEEK	O98
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Colton Leigh, Bol Ruach, Michael Walker	Monica Garcia-Perez	Oral Presentation	SEEK	O102
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Edgard Mamani Vargas, Nathaniel Nemeth	Monica Garcia-Perez	Oral Presentation	SEEK	O103
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Jason Cussler, Kristina Loukusa	Monica Garcia-Perez	Oral Presentation	SEEK	O95
<i>On the economics of immigration: Exploring local, regional, and national issues on immigration and the economic implications</i>	Samantha Bromenshenkel, Quintia Mabushi	Monica Garcia-Perez	Oral Presentation	SEEK	O101
<i>Determinants of MLB Attendance: Do Other Sports Teams Matter?</i>	Bret Lee	David Switzer	Oral Presentation	SEEK	O107
<i>The Cost of Going Green</i>	Bryan Karp	David Switzer	Oral Presentation	SEEK	O106
<i>Can Going Vegan Save the World?</i>	Madellen Schetnan	David Switzer	Oral Presentation	ACT	O104
<i>Exploration of Unemployment Insurance Benefits on Unemployment Duration</i>	Mohamed Yusuf	David Switzer	Oral Presentation	THINK	O24
<i>Does Military Spending in the U.S. Come at a Cost to Health Outcomes?</i>	Othman Doudin	David Switzer	Oral Presentation	SEEK	O116
<i>Does It Pay To Pursue A Graduate Degree In Minnesota?</i>	Sebastian Borrás	David Switzer	Oral Presentation	SEEK	O86
<i>Student loan debt and its effect on investment into retirement</i>	Steven Koestner	David Switzer	Oral Presentation	SEEK	O105

<i>Macroeconomic Effects of ATM's and the Implications for the rise in Digital Banking Technologies</i>	Travis Boland	David Switzer	Oral Presentation	INTEGRATE	O117
<i>An Economic Analysis of the Effects of Improved Water Sources in Developing Countries</i>	Connor Schmitz	David Switzer, Patricia Hughes	Oral Presentation	ENGAGE	O87
Geography & Planning					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Development of Hospitality and tourism</i>	Bilguundorj Nurzedmaa	Randal Baker	Poster Presentation	ENGAGE	P178
<i>Study Abroad of host culture based on influences and perception</i>	Chao Her	Randal Baker	Poster Presentation	ENGAGE	P170
<i>How travel review sites have effected travel choices/behavior.</i>	Cooper Harron	Randal Baker	Poster Presentation	SEEK	P171
<i>Benefits and Barriers of Working in the Nautical Tourism Industry</i>	Leah LaValle	Randal Baker	Poster Presentation	SEEK	P179
<i>Attitude of Local Residents Towards Tourism Development in Nepal</i>	Nuna Vang, Ujjwa Khadka	Randal Baker	Poster Presentation	SEEK	P168
<i>Tourism and Terrorism, Connected More Than We Think</i>	Samantha King	Randal Baker	Oral Presentation	SEEK	O108
<i>The Major Perceived Benefits of Studying Abroad</i> <u>Community Partner:</u> Education Abroad, St. Cloud, MN	Gloria Vang, Emily Baugh	Randal Baker, Hung-Chih Yu	Poster Presentation	SEEK	P167
<i>The Major Benefits of Study Abroad</i>	Megumi Sakiyama, Natsuki Komiyama	Randal Baker, Hung-Chih Yu	Poster Presentation	SEEK	P169
<i>The relationship between infectious diseases(epidemic) and tourism</i>	Jinho Lee, Kyu Young Kyung	Randal Baker	Oral Presentation	SEEK	O91
<i>Obstacles for Students Studying Abroad</i>	Trevor Waltzing	Randal Baker	Poster Presentation	SEEK	P166
<i>Service quality in the hotel</i>	Jun Lama, Neha Prajapati	Randal Baker	Poster Presentation	THINK	P63
<i>Attitudes Surrounding Immigration in the Midst of Globalization</i>	Sheniah Kallevig	Mikhail Blinnikov	Poster Presentation	ENGAGE	P113
<i>Geopolitics of Interwar Poland</i>	Alex Zemla	Gareth John	Poster Presentation	SEEK	P175
<i>Performing Culture and Landscape in Lindstrom, Minnesota</i>	Andrea Haataja	Gareth John	Oral Presentation	SEEK	O8
<i>Toward a Geographic Remodeling of Localized Urban Food Deserts: The Case of St. Cloud</i>	Ellen Boisen	Gareth John	Oral Presentation	SEEK	O6
<i>Towards a Less Divided Politics: solving the problem of electoral map bias through geography</i>	Jessica Craig	Gareth John	Oral Presentation	ACT	O7

<i>Towards a Geography of Minnesota's Trash</i>	Katelyn Mueller	Gareth John	Poster Presentation	SEEK	P173
<i>Ice is Nice: The Economic Impact of Post-Glacial Landscapes in Minnesota</i>	Meagan Voss	Gareth John	Poster Presentation	SEEK	P174
<i>Mapping "Witch-phobia": Analyzing the Diffusion of Witch Trials in Europe and America</i>	Ony Adeneke	Gareth John	Poster Presentation	SEEK	P172
<i>The Correlation of Limited English Proficiency, State's Cultural, Political, Diversity and Pull-Push Factors Impact on The Vietnamese Settlement in United States</i>	Robin Le	Gareth John	Poster Presentation	ENGAGE	P115
<i>Land Use, Watersheds and the Aquatic Health of Minnesota's Lakes</i>	Luke Henderson	Gareth John, Mikhail Blinnikov	Poster Presentation	SEEK	P29
<i>Eco-Tourism</i>	Anna Jagodzinski, Alex Rymer	Belkis Kambach	Applied Experience Display	SEEK	A176
<i>Reactions to Stop Signs in Minnesota</i>	Alex Rydberg, Amanda Swanson	Hung-Chih Yu	Poster Presentation	SEEK	P177
STUDENT LIFE AND DEVELOPMENT					
Career Center					
Project Title	Presenter(s)	Faculty Mentor(s)	Presentation Type	Our Husky Compact	Abstract Code
<i>Career Centers on College Campuses and Online Outreach</i>	Meredith Penrod	Jackie Bauer	Poster Presentation	INTEGRATE	P51
Department of Campus Involvement					
<i>Greek Life</i>	Baylee Holeman, Levi Nelson	Sami Bosacki	Applied Experience Display	COMMUNICATE	A180
Medical Clinic & Pharmacy					
<i>The Hey, You Okay? Initiative</i>	Anne Henderson	Erica Karger-Gatzow	Applied Experience Display	COMMUNICATE	A181
<i>Peer Wellness Coaching Internship-Social Work</i>	Sydney Fournier-Dingmann	Erica Karger-Gatzow	Applied Experience Display	ACT	A50
Uchoose					
<i>The Recovery Resource Center</i>	Karlee Verhaagh	Jennifer Johnson	Applied Experience Display	ACT	A52
<i>UCHOOSE: Collaborations that Cultivate Change</i>	Nevena Vasovic	Jennifer Johnson	Poster Presentation	ACT	P53
UNIVERSITY COLLEGE					
University Honors Program					
Project Title	Presenter(s)	Faculty Mentor(s)	Type	Our Husky Compact	Abstract Code
<i>The Science of Salem</i>	Aunie Ellis	Steve Anderson	Poster Presentation	SEEK	P19
<i>The Belief Behind Horoscopes & Zodiac Signs</i>	Joannie Amaro	Steve Anderson	Poster Presentation	SEEK	P68

<i>Resistance within Graffiti</i>	Macy Siharath	Steve Anderson	Poster Presentation	SEEK	P66
<i>Poverty in Americas Education System and Its Effect of Childhood Development</i>	Madison Audy	Steve Anderson	Poster Presentation	SEEK	P67
<i>Ethics in Fishing</i>	Mitchell Gabel	Steve Anderson	Poster Presentation	SEEK	P65
<i>Video Games: More Than Their Stereotypes</i>	Sunny Moua	Steve Anderson	Poster Presentation	SEEK	P69
<i>How dual or single parent households affect the likelihood of their children committing crime</i>	Timothy Schermann	Mary Clifford	Poster Presentation	SEEK	P64
<i>Where has the Presidential Impeachment process deviated from American Political Theory?</i>	Elise Kloeppner	Michael Gorman	Poster Presentation	ACT	P70
<i>Top financial decisions college students make that unknowingly affect their future financial success.</i>	Brandon Behsman	Michael Gorman	Poster Presentation	SEEK	P85
<i>The effects of Borrelia burgdorferi on the body.</i>	Carlyn Frie	Michael Gorman	Poster Presentation	SEEK	P84
<i>Women of Shakespeare</i>	Cynestasia Mattheis	Michael Gorman	Poster Presentation	THINK	P86
<i>How does genocide relate to the concept of Human Relations and Ethnicity?</i>	David Moreno	Michael Gorman	Poster Presentation	SEEK	P87
<i>Rap therapy</i>	Envy Agbonkheshe	Michael Gorman	Poster Presentation	SEEK	P79
<i>How do eating disorders affect the brain and body?</i>	Jordan Johnson	Michael Gorman	Poster Presentation	SEEK	P71
<i>Immunizations and the Development of Your Child</i>	Kaeleigh Rainer	Michael Gorman	Poster Presentation	SEEK	P81
<i>Public versus Private Education in Relation to Children with Autism</i>	Kaitlin Bender	Michael Gorman	Poster Presentation	THINK	P75
<i>The Process and Effect of Semantic Feature Therapy on Stroke Patients</i>	Kathryn Grapatin	Michael Gorman	Poster Presentation	SEEK	P72
<i>Racial Achievement Gap Across the United States</i>	Kayla Monson	Michael Gorman	Poster Presentation	ENGAGE	P73
<i>The Affects of War On Artists</i>	Kendra Jenson	Michael Gorman	Poster Presentation	SEEK	P83
<i>How are those with a mental illness affected by law enforcement throughout the course of the criminal procedures process?</i>	Kendra Schlecht	Michael Gorman	Poster Presentation	ACT	P78
<i>How Socioeconomic Status of Students in Elementary School Impacts Their Education</i>	McKenna Welk	Michael Gorman	Poster Presentation	SEEK	P77
<i>How the implementation of a lap time simulator would benefit the Husky Formula Racing Team?</i>	Michael Fischer	Michael Gorman	Poster Presentation	SEEK	P88

<i>Why has the flat earth theory begun to rise in popularity since 2004?</i>	Myles Kinney	Michael Gorman	Poster Presentation	SEEK	P76
<i>Imposter Syndrome</i>	Paytin Carty	Michael Gorman	Poster Presentation	SEEK	P74
<i>How Genocide Impacts Child Development</i>	Samantha Ricci	Michael Gorman	Poster Presentation	SEEK	P82
<i>The Relationship between Volunteering & Euthanasia in Animal Shelters</i>	Trieste Schenk	Michael Gorman	Poster Presentation	SEEK	P80
<i>Smoking's Effect on Brain</i>	Olivia Michals	Michael Jeannot, Joseph Melcher	Poster Presentation	SEEK	P59
<i>Computer-Aided Design: The Revolution of the Future</i>	Daniel Moreno	Mark Petzold	Poster Presentation	SEEK	P60
<i>Communication Development and Humanities</i>	Emily Ramsey	Melissa Prescott	Poster Presentation	THINK	P94
<i>GENDER DISPARITY IN SCIENTIFIC STUDIES AND CLINICAL DRUG TRIALS</i>	Gwendolyn Desa	Melissa Prescott	Poster Presentation	SEEK	P55
<i>Effects of Anorexia on Social Stress</i>	Hope Simon	Melissa Prescott	Poster Presentation	SEEK	P54
<i>I Don't (Exploration of child marriages in the Western world)</i>	Madeline Johnson	Melissa Prescott	Poster Presentation	ENGAGE	P91
<i>How PTSD affects Speech.</i>	Olivia Gomos	Melissa Prescott	Poster Presentation	SEEK	P93
<i>The Perception of Gender and its Effect on Women in Medicine</i>	Phebie Rossi	Melissa Prescott	Poster Presentation	SEEK	P56
<i>How has hip hop influences develop the modern society?</i>	Sarah Huynh	Melissa Prescott	Poster Presentation	SEEK	P90
<i>The Historical Events of Jesus' Crucifixion and Resurrection</i>	Jacob Hageman	Melissa Prescott, Jason Eden	Poster Presentation	SEEK	P89
<i>The Ottomans at Home and in the World</i>	Evan Pallansch	Melissa Prescott, Michael Gorman	Poster Presentation	THINK	P92
<i>How athletes use social media and how race effects the use</i>	John Hilton	Melissa Prescott, Plamen Miltenoff	Poster Presentation	ENGAGE	P62
<i>Big Data, Politics, and your Privacy</i>	Zachariah Morgan-Grube	Melissa Prescott, Sharon Cogdill	Poster Presentation	SEEK	P57
<i>Pancreatic Cancer: Epigenetics and Inheritance</i>	Alexy Dresel	Jennifer Quinlan	Poster Presentation	SEEK	P111
<i>Analysis of Behavioral and Emotional Differences and their Connection to Students with English as a Second Language</i>	Amanda Voigt	Jennifer Quinlan	Poster Presentation	SEEK	P97
<i>K-12 Bilingual Education in America</i>	Bionca Peterson	Jennifer Quinlan	Poster Presentation	SEEK	P107
<i>Twitter trends and how they affect a person's opinion on a new subject</i>	Brandon Nguyen	Jennifer Quinlan	Poster Presentation	SEEK	P104
<i>How the Dietary Restrictions of the Abrahamic Religions Affect Athletic Performance</i>	Calista Mezzapelle	Jennifer Quinlan	Poster Presentation	SEEK	P108

<i>Couples Therapy or Credit Counseling</i>	Emma Thoms-Warzecha	Jennifer Quinlan	Poster Presentation	SEEK	P112
<i>Using Immunotherapy to Improve Quality of Life in Cancer Patients</i>	Erika Laho	Jennifer Quinlan	Poster Presentation	SEEK	P110
<i>The Truth About the Effects of GMOs and the Stigma Around Them</i>	Gabrielle Imm	Jennifer Quinlan	Poster Presentation	INTEGRATE	P102
<i>Benefits of Nutritional Knowledge in High School Athletes</i>	Gracie Elsenpeter	Jennifer Quinlan	Poster Presentation	SEEK	P100
<i>Women's Lack of Appetite in Films and How it Affects Young Women</i>	Jessica Nelson	Jennifer Quinlan	Poster Presentation	SEEK	P101
<i>Safety for Equestrians in Jumping</i>	Katherine Erickson	Jennifer Quinlan	Poster Presentation	SEEK	P96
<i>Art Therapy and Preventing Illness</i>	Kaya Inkster	Jennifer Quinlan	Poster Presentation	SEEK	P105
<i>Effects of Radiation on the Body</i>	Macy Beeter	Jennifer Quinlan	Poster Presentation	SEEK	P106
<i>Autism and the Ability to Critically Think</i>	Maureen Schimnich	Jennifer Quinlan	Poster Presentation	SEEK	P98
<i>Prisoner Voting Rights</i>	Nathan Schmidt	Jennifer Quinlan	Poster Presentation	SEEK	P109
<i>T-cells and Immunosenescence in Humans</i>	Nickolas Hoopingarner	Jennifer Quinlan	Poster Presentation	SEEK	P95
<i>Secrets to Success on YouTube</i>	Steven Cao	Jennifer Quinlan	Poster Presentation	SEEK	P99
<i>Climate Change in Literature, Entertainment, and the Media</i>	Teagan Watkins	Jennifer Quinlan	Poster Presentation	SEEK	P103
<i>Mental Health of Genocide Survivors</i>	Hunter O'Hotto	Geoffrey Tabakin, Marina Cetkovic-Cvrlje	Poster Presentation	SEEK	P58
<i>Misconceptions about drinking alcohol during pregnancy</i>	Ellanna Pomplun	Patty Waletzko, Kathryn Mayhew	Poster Presentation	SEEK	P18

Thank you to all our faculty whose efforts are vital to the student research, scholarship, creative activity, and community engagement we celebrate today. Your support is invaluable to the learning and development of St. Cloud State University students.

Special thanks to all the faculty, staff, and student volunteers who serve on the planning committee members in support of Huskies Showcase.



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