10th anniversary undergraduate research conference 2015
SOUTHWEST MINNESOTA STATE UNIVERSITY

Wednesday, December 2, 2015
Starting at 8:30 a.m. | SMSU Conference Center

PROGRAM
Welcome and Keynote
SMSU Conference Center Upper Level

8:30 ........ Dr. Connie Gores, SMSU President, Opening Remarks
8:45 ........ Martin A. Draper, PhD, USDA, National Institute of Food and Agriculture
Keynote Address: “Education, Research and Critical Thinking: Keys to a Progressive Society”

Oral Session A
SMSU Conference Center Upper Level

9:45........ Terrance Maier, Environmental Science, Habitat Preferences for Mule and White-Tailed Deer in South Central South Dakota
10:00....... Devin Ryan, Environmental Science, Seasonal survey of frog and toad species and abundance at multiple sites near Lake Sarah, Southwest Minnesota
10:15....... Emilee Gutzmer, Meredith Hyatt & Audi Nickel, Biology, Insect Biodiversity: A Comparison of Sweetland Hall Prairies, Marshall, MN
10:30....... BREAK
10:45....... Travis Radke, Environmental Science, Summer Roadside Use by White-Tailed Deer near Currie, Minnesota
11:00....... Caci Lingen Environmental Science, Survey of Pollinators in the ADM-SMSU Wildlife Area Marshall, MN Summer 2015
11:15....... Claire Sames, Rhiannon Sears & Ashley Millerbernd, Biology, Influence of Temperature and Precipitation on the Prevalence of Lyme Disease in Minnesota
11:30....... Devin Ryan, Emily Heesch & Marissa Mattson, Biology, Density of Goldenrod Plants With and Without Insect Galls in the SMSU Wildlife Area
11:45....... Caroline Mukeshimana, Dylan Johnson & Mikaela Cypher, Biology, Isolation of Antibiotic-Producing Microbes from Soil Collected in Marshall, MN
12:00-1:15. Jess Rockeman, DC Crowell and Stephanie Wisdom, Creative Writing- Original Works, “Interesting, but Terribly Overrated”
1:30........ Krishna Ghimire, Environmental Science, Effects of LED Light vs Fluorescent Light on the Growth of Radish Plants (Raphanus sativus)
1:45........ Taylor Buchtel, Caterina Gronau, Casey Hertz & Katlyn Sandbulite, Biology, Comparison of Plant Species in an Old and New Reconstructed Prairie in Southwest Minnesota

148.......... Austin Olson, Sociology, Devaluing Women’s Work: Gender Pay Inequity, 3:00-4:30
149.......... Abby Straw, Accounting, 3 Generations Working Together? Is It Possible? 1:00-2:30
150.......... Callin Morris, Accounting, The Unaffordable Affordable Care Act, 9:30-11:00
151.......... Carter Barker, Mathematics, How to Solve any Biquadratic Equation, 2:30-3:30
152.......... Victoria Garza, Sociology, (How) Does the Sexual Orientation of Parents Matter? 3:00-4:30
130. Leah Bernard, Sociology, Barriers and Inequalities in Healthcare for Individuals with Disabilities, 10:30-11:30 & 4:00-4:30
131. Tehra Christianson, Sociology, Child Abuse and Trauma Services, 11:30-1:00

**Poster Presentation Session D**

*PE Link Upper Level*

Posters displayed 8:30 am to 5:00 pm, Authors available at times listed after title
Accounting, Mathematics, Political Science, Psychology, Sociology & Theatre

132. Annie Magnuson, Theatre, Make-up for Mermaids, 1:00-2:30
133. Emilie Baartman, Theatre, Rocking the Rock Star Look: Gene Simmons, David Bowie, and Alice Cooper, 2:00-3:30
134. Joel Gay, Theatre, Making Actors Bleed, 3:00-4:30
135. Jenna Miller, Theatre, 1920's Style Makeup, 12:20-2:00
136. Thomas M. Powers, Political Science, The Impact of Roundabouts on Greater Minnesota, 1:00-2:30
137. Jeremy Brands, Political Science, Water Supply and Water Shortages in Southwest Minnesota, 11:00-12:30
138. Jordan Leckband, Political Science, Public Transportation Trends in Greater Minnesota, 2:30-4:00
139. Chelsea Wiese, Psychology, Civic-mindedness, integrity, and community service self-efficacy among SMSU students, 3:30-5:00
140. Samantha Minter, Psychology, Gun ownership and attitudes about guns among college students, 9:30-11:00
141. Emily Wajer & Megan Schmidt, Psychology, How Supervised Parenting Time Visitations Work, 9:30-11:00
142. Bryan Creamer, Sociology, Intimate Partner Violence: As Seen Through the Child’s Eye; Different Health Concerns and Ways of Prevention, 9:30-11:00
143. Chucky Her, Sociology, Viewing Bullying within Gender Role Conflict from a Sociological Perspective, 3:00-4:30
144. Benjamin Ryan, Sociology, The Changing Patterns of Housework and the Division of Labor, 10:30-1:00
145. Maria Dunblazier, Sociology, The signs of child abuse and the implications in the professional workplace, 3:00-4:30
146. Cody Seehafer, Sociology, Barriers in Daily Life: Challenges Faced by People with Disabilities, 3:00-4:30
147. Donne Lobendahn, Sociology, Private Prison Complex, 3:00-4:30

2:00. Megan Bruns, Lozililo Moyo, Elizabeth Senkyr & Tatum Larson, Biology, Distribution and Abundance of Galls on Hackberry Tree Leaflets
2:15. Matthew Kubly, Nicole Cordes & Taylor Schreier, Biology, A Comparison of Earthworm Densities in Four Habitats in Southwest Minnesota
2:30. Ellen Johnson, Briana Reierson, Deewan Bajracharya & Nathan Andressen, Biology, A Summary of Bird Species Occurrence in Southwest Minnesota over a Ten Year Period, 2005 to 2015
2:45. Break
3:00. Jessica Laqua, Political Science, The Effects of the EPA's Water Rule on Minnesota’s Farm Economy
3:15. Paige Ebner, Daniel Slowey, Kaitlyn McCaslin & Jennifer Rye, English Literature, Gender and Fantasy in Children's and Young Adult Literature
3:30. Naomi Peterson, Jessica Engebretson, Paul Vold & Zach Bailey, Scientific & Technical Writing, Improvement of Fitness of Traditional Students at SMSU
3:45. Daryl Thomas, Megan Will & Katie Wenisch, Scientific & Technical Writing, Healthy Food at SMSU
4:00. Dylan Curfman, Dylan Parsons, Jordan Salonek & Sondra De La Cruz, Scientific & Technical Writing, Improving Recycling Initiatives at Southwest Minnesota State University
4:15. Amanda Heesch, Corey Gregor & Sara Tews, Scientific & Technical Writing, Fighting Obesity, One Desk at a Time
5:00. Awards Ceremony

**Oral Session B**

*SMSU Charter Hall 201*

9:45. Taylor Koloc, Hannah Chaddock & Victoria Bensel, Psychology, Discussing the Social and Developmental Challenges of Cerebral Palsy Wheelchair Bound Individuals at SMSU
10:00. Kelsey Larson, Sociology, Cohabitation and the Connection to Divorce and Religion
10:30. Break
10:45. Brittany Verhelst, Sociology, Effects of Family Structure on Juvenile Delinquency
11:00. Megan Lipetzky, History, The Last War Song
11:15. Kyle Havlicek, Theatre, Stage Management and the Stage Manager’s Promptbook
11:30........Payton Shively, Theatre, How to apply basic contouring for the stage
11:45........Victoria Garza, Sociology, MOVED TO POSTER SESSION
12:00........LUNCH BREAK
1:00.........Nicole Cordes, Contemporary Issues-LEP 400, The Effects of Music on Student’s Walking Speed
1:15.........Cole Johnson, Political Science, Railway Transportation System of Greater Minnesota
1:30.........Sean Kallevig, History, Through the Years: The Town History of St. Leo, Minnesota
1:45.........Erik Khzmalyan, Political Science, Immigrants in Minnesota: Educational Challenges and Contributions to State Economy
2:00.........Broderick K. Eveslage, History, Modern History: The 2009 Decision of the ELCA
2:15.........Benjamin Klotz, History, Racism in the Pacific During World War II
2:30.........Broderick Goens, History, The Use of POW Camps in Minnesota During World War II
2:45.........BREAK
3:00.........Adam Savariego, History, Founding of the Upper Sioux Community
3:15.........Grady Holtberg, Sociology, Substance Abuse Treatment and the United States Prison System

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2............Phil Duerr, Agronomy, The Use of Lettuce Extract as a Natural Herbicide, 10:30-12:00
3............Paige Hendrickson & Taylor Holicky, Biology, The allelopathic effect of orange, lemon, and banana peel extract on dry weight and overall height of corn, Paige 2:30-3:15, Taylor 9:45-10:30
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5............Rebecca Sommer, Biology, Small Interfering RNA as the Silver Bullet for Cancer, Formal 1:30-2:00, Informal 2:00-2:30

116..........Kylie Wahl, Melissa Downing, Bryan Lubitz & Josie Simon, Freshman Year Seminar, What Can Social Media Do With Your Likes? Kaylie & Bryan 10:30-12:00; Melissa & Josie 1:00-2:30
117..........June Stensrud, Kara Burch, Grace Nelson, Brooklyn Bangasser & Jared Schmidt, Freshman Year Seminar, Social Media and Personal Connections, June, Kara & Grace 11:30-1:00; Brooklyn & Jared 2:30-4:00
118..........Jamie Schell, Danielle Duncan & Bryan Wurdemann, Freshman Year Seminar, Who You Are on Social Media, Jamie & Danielle 12:30-2:00; Bryan 10:00-11:30
119..........Erica Hansen, Theatre, How to Become a Dragon, 9:30-11:00
120..........Jessica Matt, Jordyn Hetland, Melissa Kidrowski, Marcia Blaster, Megan Loew, Jennie Wigen & Bonnie Parsons, Nursing, Oh Baby! Using Essential Oils for Pain Management During Labor and Delivery, Jessica & Jordyn: 9:30-11:00; Melissa & Marcia: 11:00-12:30, Megan, Jennie & Bonnie: 1:30-3:00
121..........Taylor Engel, Theatre, Phantom of the Opera, The Phantom’s Face Makeup, 1:00-2:30
122..........Crystal Enga, Theatre, Corrective Makeup, 2:00-3:30
123..........Sarah Norton, Theatre, The Art of a Mortician, 9:30-11:00
124..........Claire Macki, Paul Norgren, Amy Thomas & Brittney Stockwell, Freshman Year Seminar, “How Much Privacy Do You Really Have?” The Privacy of Social Media, Claire & Paul 11:00-12:30, Amy & Brittney 12:00-1:30
125..........Emily Crumrine, Dalton Jones, Peyton Sanders & Jacob Broberg, Freshman Year Seminar, Are You a Target for Big Business? Emily & Dalton 12:00-1:30; Jacob & Peyton 2:30-4:00
126..........Brooke Thompson, Emily Safar, Callie Severson & Miranda Giese, Freshman Year Seminar, Motives Behind a Cyberbully, Brooke & Emily 1:00-2:30; Miranda and Callie 9:30-11:00
127..........Tamara Hellendrung, Sociology, Elder Abuse: What are the implications of elder abuse in the United States in nursing homes among staff? 11:00-12:30
128..........Hannah Kuno, Sociology, Racial Profiling: Traffic Stops, 10:00-11:30
129..........Julie Schimerowski, Sociology, Creating a Welcoming Environment for International Students on College Campuses, 11:30-1:00
Poster Presentation Session C

SMSU Library Plaza

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Donovan Woods, Political Science, Effects of the Minimum Wage Increase on Greater Minnesota, 10:00-11:30
Alison M. Bakken, Political Science, Broadband Access: The Future for Greater Minnesota, 2:30-4:00
Tom Lammers, Political Science, Greater Minnesota’s Emerging Water Crisis, 1:30-3:00
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Dave Lien, Psychology, Barriers to Non-Traditional Student Enrollment and Retention at SMSU, 1:00-2:30
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Meghan Johnson & Demi Rovwick, Exercise Science, Fitness of collegiate wrestlers over a competitive season, Meghan 10:15-1:15, Demi 2:30-3:30
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Taylor Koloc, Exercise Science, Plyometric and lateral performance in softball players, 11:00-12:00
22 Michael Mattick, Biology, Loxosceles Spider Envenomation: Mechanism of Action of Sphingomyelinase Phosphodiesterase (SMase D) and its Effects on Human Tissue, Formal 9:45-10:15, Informal 2:45-3:15
23 Chidera Ndubuisi, Okeleamaka J. Chukwuyem & Oluchi Olivia Ndubuisi, Biology, Allelopathic Effect of Ginger Rhizome Extract on the Seedling Growth of Lettuce, Chidera 10:00-10:45, Okeleamaka 1:30-2:15, Oluchi 10:45-11:30
24 Ben Spaeth, Computer Science, Vote Helper iOS App, 1:00-2:30
25 Zach Bailey, Computer Science, Iron Fist, 9:30-11:00
26 Chantel Paul, Zachary Specht & Jonathan Cross, Exercise Science, Effects of High-Intensity Interval Training on Body Composition of Wheelchair Athletes, Chantel only 9:45-10:45
27 Zachary Specht, Jonathan Cross & Chantel Paul, Exercise Science, Effects of high-intensity interval training on cardiovascular fitness using a novel wheelchair training system, Zach only 1:00-2:00
28 Jonathan Cross, Zachary Specht & Chantel Paul, Exercise Science, Effects of high intensity interval training on wheelchair pushing kinematics, Jonathan only 10:45-11:45
29 Erin Kamrath, Exercise Science, Foam Rolling and Football Summer Conditioning, 9:45-10:45
30 Spencer Louwagie, Computer Science, Developing a Website For Technology Assistance, 2:00-3:30
31 Kaylee Benson, Mathematics, Mathematical Analysis of Football Scheduling in NSIC Conference, 3:00-4:30
32 Joseph Lilleberg, Computer Science, Developing an Arena Brawler using Unreal Engine 4, 9:30-11:00
33 Jake H. Schueller, Mathematics, NCAA Football BCS Algorithm and Its Flaws, 1:30-3:00
34 Melissa Bartz, Biology, WITHDRAWN
35 Libby Tolzin, Alex Dequaine & Colten Bristle, Biology, The allelopathic effects of crushed almond on corn plants, Libby 10:30-11:15, Alex 3:45-4:30, Colten 9:45-10:30
37 Ryan Miller & Emmanuel Asota, Computer Science, Escape Plan App, 8:30-10:00
38 Nathan Getting & Kyle Lecy, Economics, Economic Development in the Countries of China and India, 3:00-4:30
39 Naomi Peterson, Exercise Science, The Effects and Recovery Process of Anterior Cruciate Ligament Replacement for a Female Competitive Athlete, 1:00-2:00
40 Teather Lacy, History, Fagen’s Museum: The Hidden Gem of Southwest Minnesota, 9:30-11:00
41 Wanda L. Paluch, History, Divine Providence: The Rise and Fall of a Small Town Hospital, 10:30-12:00
42 Dain Bion, History, Jacob Riis’ Views of the Dark, 12:30-2:00
43 Johna Nelson, History, The Influence of the Women’s Christian Temperance Union and the Volstead Act on Southwestern Minnesota, 12:30-2:00
44 Tyler Thielges, History, The Visigoths, 9:00-10:30
45 Alan Zimmerli, Agronomy, Allelopathic Effects of Black Walnut Husk Extract on Monocot Germination and Growth, 10:30-12:00
46 Heather Daugherty, Mathematics, Fair Division, 3:00-4:30
47 Sabrina Ley & Breanna Houselog, Economics, Economic Development in Bangladesh and Afghanistan, 3:00-4:30
48 Eeshaan Joshi & Shagun Upadhaya, Computer Science, ‘Tic Tac Toe’ (XOXO), 9:30-11:00

Poster Presentation Session B

SPECIAL SESSION
“Migrant Voices: The Marshall Area Narrative Inquiry Project”
Student Center Upper Level (SC 216)
Posters displayed 8:30 am- 5:00 pm, Program: Sociology

Faculty Advisor: Dr. Kerry Livingston, Sociology
Research Assistants: Stephanie Geier (Sociology) and Erin Reps (Graduate Student)
Cultural Advisors and Translators: Mu Mu Aye, Marly Cid (Graduate Student), Hussein Osman, Marie Hoff and Yesenia Cerda
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Thomas M. Powers, Political Science, The Impact of Roundabouts on Greater Minnesota, 1:00-2:30

Jeremy Brands, Political Science, Water Supply and Water Shortages in Southwest Minnesota, 11:00-12:30

Jordan Leckband, Political Science, Public Transportation Trends in Greater Minnesota, 2:30-4:00

Chelsea Wiese, Psychology, Civic-mindedness, integrity, and community service self-efficacy among SMSU students, 3:30-5:00

Samantha Minter, Psychology, Gun ownership and attitudes about guns among college students, 9:30-11:00

Emily Wajer & Megan Schmidt, Psychology, How Supervised Parenting Time Visitations Work, 9:30-11:00

Bryan Creamer, Sociology, Intimate Partner Violence: As Seen Through the Child’s Eye; Different Health Concerns and Ways of Prevention, 9:30-11:00

Chucky Her, Sociology, Viewing Bullying within Gender Role Conflict from a Sociological Perspective, 3:00-4:30

Benjamin Ryan, Sociology, The Changing Patterns of Housework and the Division of Labor, 10:30-1:00

Maria Dunblazier, Sociology, The signs of child abuse and the implications in the professional workplace, 3:00-4:30

Cody Seehafer, Sociology, Barriers in Daily Life: Challenges Faced by People with Disabilities, 3:00-4:30

Donne Lobendahn, Sociology, Private Prison Complex, 3:00-4:30

Megan Bruns, Lozililo Moyo, Elizabeth Senkyr & Tatum Larson, Biology, Distribution and Abundance of Galls on Hackberry Tree Leaflets

Matthew Kubly, Nicole Cordes & Taylor Schreier, Biology, A Comparison of Earthworm Densities in Four Habitats in Southwest Minnesota

Ellen Johnson, Briana Reierson, Deewan Bajracharya & Nathan Andresen, Biology, A Summary of Bird Species Occurrence in Southwest Minnesota over a Ten Year Period, 2005 to 2015

BREAK

Jessica Laqua, Political Science, The Effects of the EPA’s Water Rule on Minnesota’s Farm Economy

Paige Ebner, Danial Slowey, Kaitlyn McCaslin & Jennifer Rye, English Literature, Gender and Fantasy in Children’s and Young Adult Literature

Naomi Peterson, Jessica Engebretson, Paul Vold & Zach Bailey, Scientific & Technical Writing, Improvement of Fitness of Traditional Students at SMSU

Daryl Thomas, Megan Will & Katie Wenisch, Scientific & Technical Writing, Healthy Food at SMSU

Dylan Curfman, Dylan Parsons, Jordan Salonek & Sondra De La Cruz, Scientific & Technical Writing, Improving Recycling Initiatives at Southwest Minnesota State University

Amanda Heesch, Corey Gregor & Sara Tews, Scientific & Technical Writing, Fighting Obesity, One Desk at a Time

Awards Ceremony

Oral Session B

SMSU Charter Hall 201

Taylor Koloc, Hannah Chaddock & Victoria Bensel, Psychology, Discussing the Social and Developmental Challenges of Cerebral Palsy Wheelchair Bound Individuals at SMSU

Kelsey Larson, Sociology, Cohabitation and the Connection to Divorce and Religion

Michael Koch, History, The History of the Chemical Corps

Brittany Verhelst, Sociology, Effects of Family Structure on Juvenile Delinquency

Megan Lipetzky, History, The Last War Song

Kyle Havlicek, Theatre, Stage Management and the Stage Manager’s Promptbook
Welcome and Keynote
SMSU Conference Center Upper Level

8:30.........Dr. Connie Gores, SMSU President, Opening Remarks
8:45.........Martin A. Draper, PhD, USDA, National Institute of Food and Agriculture
Keynote Address: “Education, Research and Critical Thinking: Keys to a Progressive Society”

Oral Session A
SMSU Conference Center Upper Level

9:45.........Terrance Maier, Environmental Science, Habitat Preferences for Mule and White-Tailed Deer in South Central South Dakota
10:00........Devin Ryan, Environmental Science, Seasonal survey of frog and toad species and abundance at multiple sites near Lake Sarah, Southwest Minnesota
10:15........Emilee Gutzmer, Meredith Hyatt & Audi Nickel, Biology, Insect Biodiversity: A Comparison of Sweetland Hall Prairies, Marshall, MN
10:30........BREAK
10:45........Travis Radke, Environmental Science, Summer Roadside Use by White-Tailed Deer near Currie, Minnesota
11:00........Caci Lingen, Environmental Science, Survey of Pollinators in the ADM-SMSU Wildlife Area Marshall, MN Summer 2015
11:15........Claire Sames, Rhiannon Sears & Ashley Millerbernd, Biology, Influence of Temperature and Precipitation on the Prevalence of Lyme Disease in Minnesota
11:30........Devin Ryan, Emily Heesch & Marissa Mattson, Biology, Density of Goldenrod Plants With and Without Insect Galls in the SMSU Wildlife Area
11:45........Caroline Mukeshimana, Dylan Johnson & Mikaela Cypher, Biology, Isolation of Antibiotic-Producing Microbes from Soil Collected in Marshall, MN
12:00-1:15.Jess Rockeman, DC Crowell and Stephanie Wisdom, Creative Writing- Original Works, “Interesting, but Terribly Overrated”
1:30...........Krishna Ghimire, Environmental Science, Effects of LED Light vs Fluorescent Light on the Growth of Radish Plants (Raphanus sativus)
1:45...........Taylor Buchtel, Catarina Gronau, Casey Hertz & Katlyn Sandbulte, Biology, Comparison of Plant Species in an Old and New Reconstructed Prairie in Southwest Minnesota
Wednesday, December 2, 2015
Starting at 8:30 a.m. | SMSU Conference Center