

Wednesday, December 3, 2014

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       |
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| 8:45 Dr. Adam Bergren, National Institute for Nanotechnology |
| Keynote Address: "Nanotechnology: A Platform                 |
| for Exploiting the Properties of Small Things in Big Ways"   |

## **Oral Session A**

| SMSU Conference Center Upper Level   |
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| 9:45 Josh Hughes, Environmental Science, Comparison of Macrophytes in Ponds under Agricultural, Residential, or Commercial Influences near St. Cloud, MN |
| 10:00 Jessie Eckroad, Environmental Science, The Natural History of  |
| Renville County, Minnesota   |
| 10:15 Colter Fortenberry, Environmental Science, Migratory Waterfowl   |
| Survey of Black Rush Lake WPA in Lyon County, Minnesota  |
| 10:30 BREAK  |
| 10:45 Jacob Tews, Environmental Science, A Comparison of Bacterial   |
| Communities in a Freshwater Slough in Meeker County, Minnesota   |
| 11:00 Samantha Ritter, Environmental Science, Evaluation of the  |
| permanent structural charge of a mixed-layer soil silicate   |
| 11:15 Manisha Prajapati, Environmental Science, Comparing the density  |
| and diversity of lichens in SMSU Environmental Learning Area and   |
| Camden State Park  |
| 11:30 Travis Meinders, Luke Stadther & Colter Fortenberry, Biology,  |
| Characteristics of the Crayfish Populations in the ADM/SMSU  |
| Environmental Learning Area Retention Pond   |
| 11:45 Melissa Bartz, Michael Holt & Samantha Ritter, Biology, Factors  |
| Affecting Earthworm Density in Lyon County Minnesota Habitats  |
| 12:00-1:15 Michael McGovern, Gabrielle Cohrs, Todd Chalmers & Madeline   |
| Robertson, Creative Writing, "We're All Adults Here"   |
| 1:30 Emma Christensen, Agronomy, Effect of Sulfur Application on Dry   |
| Matter Yield of Corn Grown on High Organic Matter Soil   |
| 1:45 Rebecca Sommer, Josh Hughes & Laura Blanchard, Biology,   |
| Comparison of macroinvertebrate diversity and abundance in two   |
| stormwater runoff ponds of differing ages in Marshall, MN  |
| 2:00 Alexis Walker, Coleton Draeger & Travis Larson, Biology, Summary  |
| of Redwood River Monitoring Data Over a 10 Year Period, 2005-  |
| 2014   |

| 2:15 Coleton Draeger, Environmental Science, Nesting Habitat         |
|--|
| Comparison of the Wood Duck (Aix sponsa) in McLeod County            |
| Minnesota  |
| 2:30 Juni Lama & Dawa G. Rai, Biology, Birds Mortality due to Windo  |
| Collision in SMSU  |
| 2:45 BREAK   |
| 3:00 Cailin Rogge, Mary Lamb & Benjamin Fick, Scientific & Technica  |
| Writing, Increasing Energy Efficiency at Southwest Minnesota Sta     |
| University   |
| 3:12 John Hammonds, Manisha Prajapati & Adam Welling, Scientific     |
| & Technical Writing, Health Risks and Cost-Benefit Analysis of       |
| College Sports   |
| 3:24 Derek Fox & Ben Malakowsky, Scientific & Technical Writing,     |
| Should we add solar panels to SMSU?                                  |
| 3:36 Victoria Bensel, Chantel Paul & Becky Koepp, Scientific &       |
| Technical Writing, Building Health on Campus                         |
| 3:48 Jordan R.C. Cross, Erin Kamrath & Megan Evert, Scientific &     |
| Technical Writing, New Fitness Center for a New Generation           |
| 4:00Cody Petrowiak, Dustin Schulte & Brett Welsh, Scientific &       |
| Technical Writing, Alcohol Use on SMSU Campus                        |
| 4:12 Erica Downing, Ben Spaeth & Alex Oliver, Scientific & Technical |
| Writing, The Benefits of Green Roofing at SMSU                       |
| 4:24 Cody Seehafer & Lauren Doose, Scientific & Technical Writing,   |
| Motion Lighting at SMSU  |
| 4:36 Andrew Austin, Demi Rorvick & Kendra Erickson, Scientific &     |
| Technical Writing, Composting Awareness at SMSU                      |
| 4:48 Tiffany Gehl, Kaitlyn McCaslin & Katie Kaiser, Scientific &     |
| Technical Writing, Could hand sanitizing stations be beneficial to   |
| SMSU?  |
| 5:00 Meghan Johnson, Emily Schaefer & Carly Salfer, Scientific &     |
| Technical Writing, Helping College Students Obtain a Longer          |
| Healthy Life   |
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## **Oral Session B**

SMSU Charter Hall 201

| 9:45  | Zachary Koepke, History, Groundswell: 1980s Farm Crisis    |
|-------|--|
| 10:00 | Jaclyn Holm, History, Satisfaction Guaranteed              |
| 10:15 | Peter Lucken, History, No Place Like Home: The History and |
|       | Popularity of America's Pastime in Stearns County          |

| 10:30       | BREAK   |
|-------------|---|
| 10:45       | . Mai Ze Vue, Sociology, How does stigma/blame frames vary by         |
|             | sociocultural factors and social class?                               |
| 11:00       | . Jacob Muller, History, Joseph Renshaw Brown and His Legacy in       |
|             | Frontier Transportation   |
| 11:15       | . Payton Shively, Theatre, Women in the Shakespearean Era             |
|             | . Kyle Havlicek, Theatre, Religious Theatre in the Medieval Era       |
|             | . Amy Kay Zimmerman, Cheyenne Jones, Julie Vang & Johntae             |
|             | Ware, Art History, Illuminated Manuscript Show Graphic Design         |
|             | Project   |
| 12:00- 1:00 | . Lunch Break   |
|             | . Hunter Aubol, Naomi Baker, Marten Salfer & Alex Thies, Art          |
|             | History, Illuminated Manuscript Show Graphic Design Project           |
| 1:15        | Jordan Bakken, Political Science, Southwest Minnesota Amateur         |
|             | Sports Center   |
| 1:30        | . Talitha Black, Theatre, Criticism of Shakespeare                    |
|             | . Thomas Knudson, Theatre, The Marauded Marlowe                       |
|             | . Kayla Anderson, Emily Euerle, Meagan Meier & Alexa Thelen,          |
|             | Psychology, Eyewitness Testimony, Trustworthy or Not?                 |
| 2:15        | Joel Gay, Theatre, Architecture of the English Renaissance            |
|             | . Heidi Bengtson, Sociology, Children's Grief, Family Response, and   |
|             | Coping to Terminal Illness  |
| 2:45        |   |
|             | . Alex Kluess, Sociology, The Impact of Television Viewing on         |
|             | Adolescents' Sexuality  |
| 3:15        | . Erin Reps, Sociology, Once Upon a Time There Was More to the        |
|             | Story. A critical look into the world of stereotypes embedded in      |
|             | beloved Disney "Happily-Ever-Afters" and their influence (or lack     |
|             | there-of) on a popular modern remake                                  |
| 3:30        | . Turi Jystad, Theatre, The Influence of Greek Gods on Greek Theatre  |
| 3:45        | . Valarie Vermillion-Huback, Political Science, Broke in Minnesota:   |
|             | Poverty on the Rise?  |
| 4:00        | . Derek Ryan Schultz, Political Science, Minnesota Counties and       |
|             | Delivery of Veteran Services  |
| 4:15        | . Hanifah Abdullah, Political Science, Sulfide Mining in Northeast    |
|             | Minnesota: Costs and Benefits   |
| 4:30        | . James Saydee, Jr., Political Science, Frack Sand Mining Concerns in |
|             | Southeast Minnesota   |
| 4:45        | . Yujim Kim, Theatre, Kabuki and Greek Theatre                        |
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## **Poster Presentation Session A**

SMSU Conference Center Lower Level
Posters displayed 8:30 am to 5:00 pm
Authors available at time listed after title
Biology, Chemistry, Environmental Science & Exercise Science

|    | Seifemichael Kenea, Biology, Possible mechanism for melanocyte degeneration and the effectiveness of NB-UVB radiation therapy in |
|----|--|
|    | repigmentation of Vitiligo, Formal 2:45-3:15, Informal 9:30-10:00  |
| 2  | Coleton Draeger, Environmental Science, Observation of   |
|    | Ecological Change in the Clifton Wildlife Management Area  |
|    | Wetland, 3:15-4:45   |
| 3  | Travis Meinders, Biology, Treatment of Sickle Cell Anemia With   |
|    | Stem Cells, Formal 3:45-4:15, Informal 9:30-10:00  |
| 4  | John Craig & Noelle Beyer, Chemistry, Expression of a  |
|    | Recombinant Enzyme, 1:45-2:30  |
| 5  | Courtney Lingen, Biology, Warming of North American Waters:  |
|    | Effects on Mortality and Distribution of Freshwater Fish, Formal   |
|    | 10:30-11:00, Informal 2:00-2:30  |
| 6  | Brittney Anderson, Garrett Conn & Chris Ampe, Exercise Science,  |
|    | The Effects of Teleoanticipation on Power in Powerlifters, Anderson  |
|    | 1:00-2:00, Conn 9:30-10:30, Ampe 11:00-12:00   |
| 7  | Nathanael Gratz, Biology, Nicotine Induced Atherosclerosis and   |
|    | Possible Relationship to Electronic Cigarette Use, Formal 4:15-4:45,   |
|    | Informal 1:30-2:00   |
| 8  | Caci Lingen, Taylor Olson & Fernando Tabares, Biology,   |
|    | Allelopathic Effects of Fresh Ground Coffee on the Growth of   |
|    | Tomato Plants, Lingen/Tabares 9:30-10:15, Olson 2:30-3:15  |
| 9  | Alexis Walker, Biology, A model for amphetamine caused   |
|    | behavioral changes, Formal 11:00-11:30, Informal 11:30-12:00   |
| 10 | Dylan Johnson, Mikaela Cypher, Nicole Cordes & Travis Radke,   |
|    | Biology, The effects of salt stressing on pea plants (Pisum sativum),  |
|    | Cordes/Johnson 10:15-11:00, Cypher/Radke 1:15-2:00   |
| 11 | Mikeal Cooper, Environmental Science, Seasonal Evaluation of   |
|    | Camden State Park's Prairie Pothole, 2:15-3:45   |
| 12 | Ben Tonsager, Biology, The Effects of Brain Trauma on the  |
|    | Vestibular Nerve, Formal 1:30-2:00, Informal 11:30-12:00   |

| 13John Craig, Biology, Potential of S100B as a Diagnostic Biomarker  | 27 Casey Field, Environmental Science, Evaluation of Biological and  |
|--|--|
| for Schizophrenia, Formal 1:00-1:30, Informal 2:45-3:15              | Chemical Changes in a Freshwater Marsh near Marshall, MN, 3:30-      |
| 14 Colter Fortenberry, Environmental Science, Seasonal Study of      | 4:45   |
| Good Medicine WMA Wetland in Ghent, MN, 1:00-2:30                    | 28 Josh Hughes, Environmental Science, Evaluation of Temporal        |
| 15 Theresa Ehnert, Biology, Effects of Resveratrol on Response to    | Ecological Changes in a Shallow Open Water Community near            |
| Exercise Training on Selectively Bred Rats, Formal 11:30-12:00,      | Marshall, MN, 2:30-4:00  |
| Informal 3:45-4:15   | 29 Dustin Schulte, Exercise Science, Differences in health and skill |
| 16Luke Stadther, Biology, The Effects of Saffron's Carotenoids on    | related physical measurements between forwards and backs on the      |
| Prostate Cancer and Proposed Mechanisms, Formal 2:00-2:30,           | SMSU Men's Rugby team, 1:30-2:30                                     |
| Informal 2:30-3:00   | 30 William Lato, Exercise Science, Plyometric Hopping Exercise to    |
| 17 Samantha Ritter, Environmental Science, Investigation of Seasonal | Improve Agility, 2:00-3:00   |
| Changes in the Independence Park Wetland, 1:00-2:15                  | 31 Catarina Gronau, Environmental Science, Seasonal Observations of  |
| 18 Travis Larson, Biology, Current and Prospective Treatments for    | a Neighborhood Wetland in Marshall, MN, 9:30-11:00                   |
| Duchenne Muscular Dystrophy, Formal 9:30-10:00, Informal             | 32 Travis Radke, Environmental Science, Seasonal Changes in Dovray   |
| 10:30-11:00  | WMA Type 4 Wetland, 3:15-4:45  |
| 19 Caleb A. Heim, Exercise Science, Comparison of Olympic            | 33 Chelsea Robinson, Ashley Slyter & Dillan Hutchins, Exercise       |
| Weightlifting versus Powerlifting in Collegiate Football Players,    | Science, Increasing the speed of a wheelchair athlete, Robinson      |
| 11:00-12:00  | 10:00-11:00, Slyter 11:00-12:00, Hutchins 1:00-2:00                  |
| 20 Claire Sames, Biology, Gut Microbiota Production of Short-chain   | 34 Megan Bruns, Austin LaFollette & Rhiannon Sears, Biology, The     |
| Fatty Acids and Their Influence on Obesity via the G-protein         | Use of Fertilizer to Combat Allelopathic Effects of Garlic Mustard   |
| Receptor 41 pathway, Formal 10:00-10:30, Informal 1:00-1:30          | on Tomatoes, Bruns/Sears 9:30-10:15, LaFollette 1:30-2:15            |
| 21 Devin Ryan, Environmental Science, Ecological Observations of     | 35 Becky Suter, Exercise Science, Do high heels brand high strength? |
| AmericInn Wetland in Marshall MN, 10:30-12:00                        | 9:45-10:45   |
| 22 Joe Christensen, Biology, Binding Properties of Hemocyanin which  | 36 Kaley Scearcy & Megan Evert, Exercise Science, Functional         |
| allow for Transitions Up and Down the Water Column, Formal           | Movement Screening in Active and Sedentary Men and Women,            |
| 3:15-3:45, Informal 11:00-11:30                                      | Scearcy 3:00-4:00, Evert 9:30-10:30                                  |
| 23 Emily Heesch, Paul Schell, Kate Nohner, Biology, Comparing the    | 37 Annette T. Carr, Ashley Timm & Morgan Darner, Exercise            |
| effects of salt stress on lentils and corn, Heesch/Schell 2:00-2:45, | Science, Case Study: Ankle-brachial index in Postural Orthostatic    |
| Nohner 11:15-12:00   | Tachycardia Syndrome (POTS), Carr 10:30-11:30, Timm 1:30-2:30;       |
| 24 Rebecca Sommer, Claire Anderson & Pam Sanders, Biology,           | Darner 11:30-12:30   |
| Preliminary Screening of Lipid Productivity in Algae for Biofuel     | 38 Ashley Daniels, Holly Erickson & Emily Klima, Exercise Science,   |
| Use, 10:30-11:00, 2:45-3:15  | Improving Balance through Exercise Prescription, Daniels 1:45-       |
| 25 Caci Lingen, Environmental Science, Evaluation of Ecological      | 2:45, Erickson 9:45-10:45, Klima 3:30-4:30                           |
| Changes in the SMSU Event Center Wetland during Fall 2014, 2:30-     | 39 Casey Hertz, Steven Rohlik, Alan Zimmerli & Morgan Weyer-         |
| 4:00   | Coates, Biology, The allelopathic effect of sorghum residue on the   |
| 26 Samantha Ritter, Environmental Science, Impacts of Cover Crops    | germination, emergence, and growth of waterhemp seeds, Rohlik/       |
| and Tillage Management on Soil Quality in Southern Illinois, 3:15-   | Hertz 10:45-11:30, Weyer-Coates/ Zimmerli 3:00-3:45                  |
| 4:15   | 40 Erica Downing, Katie Erickson & Tara Quast, Exercise Science,     |

The Effects of Caffeine on the Body, Downing 1:15-2:15, Erickson

11:00-12:00, Quast 3:30-4:30

| 41 | . Courtney Lingen, Environmental Science, Seasonal Ecological      |
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|    | Observations of the Sleep Inn Wetland in Marshall, MN, 2:45-4:15   |
| 42 | . Alexis Walker, Bryan Safratowich, Murad Hossain, and Lucia       |
|    | Carvelli, Biology, Amphetamine causes trans-generation behaviors   |
|    | by inducing epigenetic modifications, 2:30-3:15                    |
| 43 | . Samuel VanNevel, Exercise Science, Forced Eccentric Contractions |
|    | on Gastrocnemius and Soleus Hypertrophy, 3:15-4:15                 |

### **Poster Presentation Session B**

Bellows Academic Library Plaza, BA 272
Posters displayed 8:30 am to 5:00 pm
Authors available at time listed after title
Agronomy Computer Science, History, Political Science & Sociology

| Agronomy, Computer Science, History, Political Science & Sociology  |
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|   |
| 44Casey Field, Agronomy, Effects of AVAIL® Treatments on Height     |
| and Dry Weight of a Field Corn, 2:30-3:30                           |
| 45 Brad Hipsag, Agronomy, The Allelopathic Effects of Coffee        |
| Grounds and Extracts on Field Peas, 1:30-2:30                       |
| 46 Thomas Sandt, Agronomy, The Effect of Snow Cover on Corn         |
| Planted at Different Depths, 2:30-3:30                              |
| 47 Ryan Palmer, Agronomy, Effects of Glyphosate on Tall Waterhemp   |
| (Amaranthus tuberculatus), 1:30-2:30                                |
| 48 Paige Swenson, Political Science, State and Federal Responses to |
| Invasive Species in Minnesota, 1:30-2:30                            |
| 49 Teather Lacy, Political Science, Rail Car Shortage in Minnesota, |
| 11:00-12:00   |
| 50 Allison M. Bakken & Jessica Thelemann, Sociology, Race and       |
| Gender Portrayed in the Media: A Content Analysis of Front Page     |
| and Local Crime Stories in the Minnesota Star Tribune, 2:30-4:00    |
| 51 Sam Opdahl, Computer Science, Cross Platform HTML5 Mario         |
| Style Game, 1:00-2:00   |
| 52 Andrew Kruse & Gene (Randy) Briest, Computer Science, Java       |
| Decompiler, 1:30-3:00   |
| 53 Duncan Sullivan, Computer Science, QR Tag, 10:30-11:30           |
| 54 WITHDRAWN  |
| 55 WITHDRAWN  |
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| 57 Saugat Pradhan, Computer Science, Mustang Rentals, 1:30-2:30  |
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| 58 Arnold Siyapche, Computer Science, Patient Management System, |
| 2:00-3:00  |
| 59 Ying Kong Vue, Computer Science, Building an Android App      |
| Game, 1:00-2:00  |
| 60 Alex Kitzberger, Computer Science, Small World, 2:00-3:00     |
| 61Prajula Shrestha & Jordan Twachtmann, Computer Science,        |
| Jeopardy Game, 10:30-12:00                                       |
| 62Tyler Thompson, Computer Science, Burning Box 3D Engine, 1:30- |
| 2:30   |
| 63 Kaity Harms, History, Corruption of St. Paul Police and       |
| Newspapers During the Gangster Era, 10:30-11:30                  |
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### **Poster Presentation Session C**

SMSU Student Center Upper Level (SC 216)
Posters displayed 8:30 am to 5:00 pm
Authors available at time listed after title
Ag Business, Mathematics & Psychology

| 64 | . Kayla Stenzel & Hailey Becker, Ag Business, Agricultural        |
|----|---|
|    | Development in Zimbabwe, 10:00-11:30                              |
| 65 | . Andy Olson, Ag Business, Developing Agriculture in Niger, 1:30- |
|    | 3:00  |
| 66 | . Meagan Williams & Angela Rush, Ag Business, Agriculture of      |
|    | Benin, Africa, 2:30-4:00  |
| 67 | . Rachel Groff, Mathematics, Setting Insurance Companies Policies |
|    | Prices, 10:30-11:30   |
| 68 | . May Vang Thao, Mathematics, Tiling Spaces, 1:00-2:00            |
| 69 | . Jordan Bakken, Mathematics, Who ranks at the top? Using ranking |
|    | algorithms to rank NFL teams, 10:30-11:30                         |
| 70 | . Julie Thaemert, Mathematics, Making Math More "Common,"         |
|    | Minnesota State Standards Better Than Common Core?, 1:30-2:30     |
| 71 | . Lizzy Bruder, Mathematics, Subtraction: Traditional vs Common   |
|    | Core, 2:00-3:00   |
| 72 | Dyreen Nyagesuka, Mathematics, The Golden Ratio and Fibonacci     |
|    | Sequence, 2:30-3:30   |
| 73 | . Jessica Hulzebos, Mathematics, Predicting Climate Change        |
|    | Through a Mathematical Analysis of Glacial Cycles, 11:00-12:00    |
|    |   |

| 74 Jeffrey Thompson, Mathematics, Quaternions and its Applications    |
|---|
| For Society: Rotation Sequences Used For Un-manned Weather            |
| Satellites, 2:00-3:00   |
| 75 Jordan Geraets, Mathematics, When Do We Learn Best: The            |
| Timing of Math is Affecting Student Learning, 3:00-4:00               |
| 76 Kayla Larson, Shelby Julian, April Schulte & Nicole Rasmussen,     |
| Psychology, Memory for Organized and Unorganized Words for            |
| those with Expertise and No Expertise, 1:30-2:30                      |
| 77 WITHDRAWN  |
| 78 Dan Francis, Jr., Kimberly Schumacher, Matthew Carlson & Bailey    |
| Andersen, Psychology, Congruent words vs. non-congruent words:        |
| How far does the Stroop effect go?, 1:30-2:30                         |
| 79 Brian Redemske, Psychology, Gender Differences in the              |
| Development of Depression, 1:30-2:30                                  |
| 80 Honor-Ra Hanson & Monique Beaulieu, Psychology, Effects of         |
| Homosexual Parenting on Children, 1:30-2:30                           |
| 81 Kaltuma Osman & Spencer Thomas, Psychology, The Effect of          |
| Picture and Word Context On Recognition of Component Parts,           |
| 1:30-2:30   |
| 82 Brittany Lade, Greta Jeska, Mark Jankowski & Rachel Trueblood,     |
| Psychology, Comparing visual and auditory memory in college           |
| students with different learning styles, 1:30-2:30                    |
| 83 Carly Salfer & Seth Lewis, Psychology, Benefits of Tutoring, 1:30- |
| 2:30  |

Original Art Works
SMSU Student Center Upper Level Posters displayed 8:30 am to 5:00 pm Authors next to work 9:45-10:30 am Art Program

| 1 | Jessica Bruss, Graduation Exhibition Artwork, Painting & sculpture |
|---|--|
|   | combined   |
| 2 | Josephine Jobgen, Graduation Exhibition Artwork, Painting          |
| 3 | Sia Lor, Graduation Exhibition Artwork, Collage                    |
| 4 | Traci Otten, Graduation Exhibition Artwork, Graphic Design         |
| 5 | Jayme Wiertzema, Graduation Exhibition Artwork, Painting           |
| 6 | Emily Woodrow, Graduation Exhibition Artwork, Graphic Design       |