



6th Annual
**Undergraduate
Research
Conference** **11**
at Southwest Minnesota State University

**Wednesday
November 30, 2011**

Starting at 8:30 a.m. in the SMSU Conference Center

PROGRAM

Welcome and Keynote

SMSU Conference Center Upper Ballroom

- 8:30.....Dr. Ronald Wood, SMSU President, Opening Remarks
8:45.....James M. Gentile, PhD, Keynote Address
“The Integration of Research and Education to Address Complex Science Questions”

Platform Session A

SMSU Conference Center Upper Ballroom

- 9:45.....Chris DiSanto and Steve Kaas, Biology, Frequency of Wildlife Mortality Associated with Habitats Adjacent to Roads in Lyon County, MN
10:00.....Kaela Wiese, Leah Riley and Stephanie Tulibaski, Biology, Change in Frequency of Specific Photosynthetic Pigments in Black Maple (*Acer nigrum*) Leaves Through Fall in Southwest Minnesota
10:15.....Jordan Austin, Environmental Science, Chemical Changes in Water Quality Due to Floating Leaved and Submerged Aquatic Vegetation
10:30.....**COFFEE BREAK**
10:45.....Chris Green, Environmental Science, Quaternary Stratigraphy and Geomorphology of Glacial Units in Camden State Park, Southwest Minnesota
11:00.....Jake Beckstrom, Environmental Science, Excavation and Interpretation of an Oligocene *Oreodont Merycoiododon* Fossil
11:15.....Tatsuro Shindoh, Environmental Science, Characterization of Sands Along the Redwood River
11:30.....(Presentation Withdrawn)
11:45.....Erin Weller, Environmental Science, Precipitation Changes and Lake Level Changes in Southwestern Minnesota
12:00.....Creative Writing Senior Readings: Cheyenne Marco, Patrick VanNevel, Joshua Straub and Jerry A. Schaefer (*Feel free to bring your lunch*)
1:15.....Crystal Boit, Environmental Science, Habitat Change Due to Urbanization in Bloomington, Minnesota
1:30.....Anja Lee Hogan, Environmental Science, Oxygen Isotope Ratios and Snowflake Crystallization in Snowfalls in Marshall, Minnesota
1:45.....Amanda Meine, Environmental Science, Effects of Flooding on Canola (*Brassica napus*) and Barley (*Hordeum vulgare*) Plants of Different Ages
2:00.....Leah Riley, Environmental Science, A Comparison of Vegetation Profiles from Ecoregions Along the Redwood River, Southwest Minnesota
2:15.....Christopher Eichten and Klayton VanOverbeke, Biology, Earthworm Population Density in Three Different Habitats: Cropland, Grassland and Forestland
2:30.....Drew Hultquist and Ruth Jepkosgei, Biology, The Effects of Quadrat Shape on Population Density Sampling of Prairie Plants
2:45.....Maxon Keating, Environmental Science, Survey Analysis for Marshall, MN – Environmental Attitudes and Knowledge

- 3:00.....Rachel Graupmann and Katelyne Christensen, Biology, Comparing Two Separate Populations of Canada Goldenrod (*Solidago canadensis*) in Midwest MN
3:15.....**BREAK**
3:30.....Jessica Slater, Kimberly Watkins, Kathryn Stromme, English (Scientific/Tech Writing) Digital or Print? Saving Money for SMSU Spur
3:45.....Elina Bajracharya, Abbey Finken and Brian Nordby, English (Scientific/Tech Writing) Rain Gardens: Implementing a Natural Filtration System in Marshall, Minnesota
4:00.....Tyler Nielsen, Toni Harms, Michael Johnson and Savanna Schwartz, English (Scientific/Tech Writing) A Greener SMSU: Implementing a Recycling Management System at Southwest Minnesota State University

Platform Session B

Charter Hall 201

- 9:45.....Jeff Boehne, History, Shifting Sands: Commemoration of the Normandy Invasion
10:00.....Mason Hammerlund, History, Temperance and Prohibition in Lyon County
10:15.....Philip M. Haas, History, Oil in Foreign Policy: Fueling U.S. Diplomacy with France During the Algerian War 1954-1962
10:30.....**COFFEE BREAK**
11:00.....Stephanie Vorvick, Psychology, Suicide: The Myths and Misconceptions
11:15.....Lorien Downing, Philosophy, The Road to a Robot Ethic: Some Considerations
11:30.....Virginia Almquist, English, Translation in the Classroom—Helpful or Hurtful?
11:40.....Brittany Kuck, English, Technology and Writing in the Classroom
11:50.....Angie Wiegmann, English, Writing Workshops
12:00.....Adrienne Kletscher, English, Cognitive Development and the Writing Process
12:10.....Kelly Fitzgerald, English, Collaborative Learning Throughout the Writing Process
12:20.....**LUNCH BREAK**
1:15.....Alex Kobs, Art History, Alnwick Castle
1:30.....Samantha Seys, Art History, The Goddess Hestia in Greek Art
1:45.....Lady Brianna Johnson, Art History, The Dome of the Rock
2:00.....Katie Grebinoski, Art History, The Stained Glass of Canterbury Cathedral
2:15.....Marissa Ritter, Art History, Medieval Map Making
2:30.....Kelsey Kingery, Art History, Greek Mosaic
2:45.....Jason Hocum, History, The Historical Implications of Citizenship in South Africa
3:00.....Joshua Straub, History, Saints, Sinners, and Suffering: An Analysis of the Medieval Church’s Attitude Towards the Disabled

Demonstrations

Black Box Theatre, FA 112

- 11:00-11:30..... Heather Lorensen, Theatre
11:30-12:00 Emma Davis, Theatre, Bruises and Abrasions
12:00-12:30 Jacob Forstein, Theatre, Up In the Air With Cirque du Soleil

Poster Presentations Session A

SMSU Conference Center Lower Ballroom. Posters displayed 8:30 am-5:00 pm

Authors available at time listed after title

ACCOUNTING

- 2AZach Kubesh and Kelly Baxter, Deductibility of Work Related Education Expenses, 1:00-2:00
3ATiffany Zins, IFRS vs U.S. GAAP Convergence Timeline, 11:30-12:30
6ABrad Holland and Brad Veit, Ireland's Financial Crisis, 1:00-2:00
7AMai Yang, IFRS's Impact on Auditors, 11:00-12:00
8AAmanda Larsen, The Increased Need for Forensic Accounting, 11:00-12:00
9AAnnette Magnus, The Hire Act Impact, 1:00-2:00
11A.....Laurie Boerboom, 2010 Tax Relief Act, 10:00-11:00
19AJustin Gruenwald, IFRS Convergence and Education,11:00-12:00
21AAmber Burns, Community Banks Suffering from the Dodd-Frank Act? 10:00-11:00
22AKendall Jensen and Rebecca Towne, Accounting for the Convergence, 1:00-2:00
23ABrandi Full and Sharon Johnson, How Our Economy Drives the Stock Market, 2:30-3:30
32AJason C. Buchert, Income Tax (History and Reform),1:30-2:30
34ATerry Goodmund, Sustainable Agriculture, 10:00-11:00
35ASamantha Swart and Megan McFarland, Fair Market Valuation is Not Reliable in a Corrupt Business Environment: International Financial Reporting Standards May Be Compromised by Bribery & Fraud, 1:00-2:00
36AAnanda Sapkota, Downgrade of USA's Credit Rating by S&P: Commendation and Criticism, 2:00-3:00
40ALacey Wintz and Rosany Platt, Balanced Budget Amendment, 2:00-3:00
43AJordan Rettmann, IFRS and the CPA exam,1:30-2:30

BIOLOGY

- 1ALisa Baidya, The Therapeutic Use of the Plant Alkaloid Berberine for Antibacterial Purposes, 10:45-11:15, 2:30-3:30
4ABrittney Hallahan, Amy Dressen, and Christopher Eichten, The Effects of Sunflower Extract on the Height and Dry Biomass of Zinnia Plants, Amy/Christopher 10:15-11:00, Brittney 3:15-4:00
5AAlexis Peters, Gabrielle Dufour, Jessamy Busman, Jessica Sheehan, and Ucheoma Kate Nwaozuru, The Responses of Zinnia and Barley Growth to Root Heating, Alexis/Gabrielle 9:30-10:15, Jessamy 1:00-1:45; Jessica/Kate 2:30-3:15

- 10ASoua Vue, α -Synuclein Distribution in Parkinson's Disease and Multiple System Atrophy, 9:30-10:30, 3:00-3:30
12ALarissa Rott, The Downfall of Matrix Metalloproteinase Inhibitors as a Potential Cancer Treatment 11:15-11:45, 1:00-2:00
13APriya Budhathoki, Nephrotoxic Effects of Gentamicin and Aztreonam Antibiotics, 9:30-10:30, 1:00-1:30
14ATripti Joshi, Role of Dendritic Cells in the Immune Response to HIV Virus, 11:15-11:45, 2:00-3:30
15ASunav Shrestha, Effect of Menstrual Cycle Pattern, Luteinizing Hormone, Androgen and Insulin in Adolescent Females with Polycystic Ovary Syndrome, 10:45-11:15, 1:00-1:30, 4:30-5:00
16ANeha Dalvi, Role of Enterovirus in Triggering Type-1 Diabetes, 11:30-12:00, 3:30-4:30
17ATyler Brinka, Seifemichael Kenea, Michael Wenk, and Matthew Zager, The Effects of Ammonium Nitrate on Water Stressed Corn Plants, Matt/Michael 9:30-10:15, Tyler/Seifemichael 2:45-3:30
18ABethany Hultgren, John Callaghan, Tatsuro Shindoh, Sujeeta Maskey, and Noble Ekuban, Zinc May Alleviate the Negative Effects of Salt Stress on Growth of Tomato Plants, John/Sujeeta 10:15-11:00, Bethany 1:00-1:45, Noble/Tatsuro 3:15-4:00
20ABrooke Burmeister, Trista Hacker, Mary Groth, and Stephanie Lienemann, The Allelopathic Effects of Lettuce on Barley Growth, Trista/Stephanie 11:00-11:45, Brooke/Mary 1:45-2:30
26AArthur Hyzer, Chandan Gupta, and Melissa Finke, The Effects of Norway Spruce Needles on the Growth of Common Beans, Art 1:30-2:15, Chandan/Melissa 3:30-4:15
30AJoe Christensen, John Craig, and Maxon Keating, Early Life Salt Stress of Tomato Plants Increases Water Stress Tolerance Later in Life, Maxon 11:00-11:45, Joe/John 2:00-2:45
33AJacob Brockpahler, Craig Gartner, Patrick Oliver, and Klayton VanOverbeke, Allelopathic Effects of Common Lambsquarters (*Chenopodium album*) on Early Growth of Field Corn (*Zea mays*), Jacob/Craig 10:00-10:45, Klayton/Patrick 11:15-12:00

CULINOLOGY

- 24AAshley Moore, Project Tosh, 3:00-4:00
37AKendra Olchefske, Developing Kosher Microwavable Dinners, 3:00-4:00
44ASubash Yadav, Retort Processing, 3:00-4:00

INTERDISCIPLINARY STUDIES

- 41ALacey Wintz, Does Wal-Mart Hurt Local Businesses? 2:00-3:00
42AAtul Karki, Effects of America and Iraq Wars on the American Economy 11:00-12:00

PSYCHOLOGY

- 25ARachel Fuerstenberg, Cassandra Barber, and Jamie Swanson, Inferring Causal Connections, 10:00-11:00
27AChelsey Ryer, Nicole Prellwitz, Nathan Krekelberg, and Sean Connolly, Illusion of Knowledge and State Capitol Recognition, Sean 10:00-11:00, Nicole 12:00-1:00, Chelsey/Nathan 3:30-4:30

- 29ACaitlin Lemmen, Katelyn Thiner, and Andie Whitcomb, Really Paying Attention, or Just Think You Are? Lemmen & Thiner 1:00-2:00, Whitcomb 2:00-3:00
- 31AChristopher Ehlers, Lindsey Parlow, and Jennifer Johnson, Mozart Effect: Reality or Illusion? Ehlers & Parlow 10:00-11:00, Johnson 11:00-12:00
- 38AArielle L. Tellinghuisen and Karissa Fiegen, Influences on Confidence and Accuracy: Estimates Among Elementary School Student Individuals and Groups, 1:00-2:00
- 39ANatalie Avey, Desi Besemer, and Megan Wilgenbusch, False Memories in the Checkout Line, 10:00-11:00

Poster Presentation Session B

*Library Plaza (Bellows Academic 272) Posters displayed 8:30 am- 5:00 pm
Authors available at time listed after title*

HISTORY

- 1BHilary Groothuis, The Women of Maynard & Wang Lutheran Churches, 11:00-12:00
- 2BRyan Welle, The Dam Fight For Control of the Mississippi River, 11:00-12:00
- 4BMegan Lewis, School Consolidation of Murray County, 1:00-2:00
- 9BWesley Jepsen, Containment, Revolution, and the Cold War, 1:00-2:00
- 17BJason Deling, American Holocaust Commemoration, 10:00-11:00

INTERDISCIPLINARY STUDIES

- 3BCheri Fjermestad, Should Student Loans Be Forgivable in Bankruptcy? 10:00-11:00
- 5BCheyenne Marco, Ending Corn-Based Ethanol Subsidization, 10:00-11:00
- 6BJeremiah Brown, How Does the Automotive Industries in Smaller Markets? 10:00-11:00
- 7BMegan Samyn, How to End Sex Trafficking in the United States, 1:00-2:00
- 13BZach Waterston, Should Companies Be Ruled Too Big To Fail, 11:30-12:30/1:00-2:00
- 16BHaoua Kombeogo, Should NAFTA be Repealed? 10:00-11:00
- 18BCassandra Sanow, Deceitful Marketing and Greenwashing Our Brains 11:00-12:00
- 19BRyley Richards, End the Fed? 11:00-12:00
- 20BRupesh Kasat, What Can Government and Non-government Agencies Do To End Human Trafficking? 3:00-4:00
- 21BStacy Biwott, For Sale: One Used Kidney—The Market for Human Organs 3:00-4:00
- 22BSiddhant Mahajan, Why Should Prostitution Be Legalized? 11:00-12:00
- 23BKelsey Hood, Are Blood Diamonds Still an Issue in 2011? 3:00-4:00

SOCIOLOGY

- 8BLauren Haase, Facebook: Managing Our Impressions, 1:00-2:00

THEATRE

- 10BKatherine Fitzpatrick, The Transformations Make-Up Can Do, 2:00-3:00
- 11BJoshua R. Johnson, Creating a Character, 2:00-3:00
- 12BAndrew O. Kompelien, Cover Those Tats, 2:00-3:00
- 14BMegan Wilgenbusch, Beyond Imagination (Fantasy Make-Up), 2:00-3:00
- 15BLisa Loots, Theatre Stage Make-Up: Fairies, 2:00-3:00
- 24BHaley Jacobsen, All Black and Blue, 1:30-2:30
- 25BSia Lor, Before and After: Eye Highlight and Contour, 10:00-11:00
- 26BSara Marie Mills, Chemicals in Cosmetics: Toxicity Through the Ages, 10:00-11:00
- 27BJalisa Ross, The Art of Egyptian Make-Up, 2:00-3:00
- 28BCourtney Watkins, Dracula from Myth to Make-Up, 10:00-11:00

Original Works Session A

*Student Center Upper Level, Artists next to work 9:00-10:00 am
Displayed Monday, Nov. 28 through Monday, Dec. 5, 2011*

ART

- 1Tara Borman, Masterwork Project, Drawing
- 2Jaclyn Boyd, Masterwork Project, Drawing
- 3Amber Casperson, Masterwork Project, Drawing
- 4Jimmy Crespino, Masterwork Project, Drawing
- 5Ashley Dehncke, Masterwork Project, Drawing
- 6Suzannah Gau, Masterwork Project, Drawing
- 7Katie Grebinoski, Masterwork Project, Drawing
- 8Kristin Guggisberg, Masterwork Project, Drawing
- 9Sarah Hall, Masterwork Project, Drawing
- 10Sherren Hill-Pulcher, Masterwork Project, Drawing
- 11Josephine Jobgen, Masterwork Project, Drawing
- 12Cheyenne Jones, Masterwork Project, Drawing
- 13Kao Yang, Masterwork Project, Drawing
- 14Katie Kiffmeyer, Masterwork Project, Drawing
- 15Mai Yang, Masterwork Project, Drawing
- 16Ross Pyka, Masterwork Project, Drawing
- 17Marissa Ritter, Masterwork Project, Drawing
- 18Nicole Robinson, Masterwork Project, Drawing
- 19Crystal Severance, Masterwork Project, Drawing
- 20Matthew Stark, Masterwork Project, Drawing