Minnesota State Colleges and Universities are pleased to introduce the second systemwide conference highlighting the undergraduate research taking place at our universities and colleges.

We are proud to be able to provide an opportunity for undergraduate students from seven MnSCU universities – Metropolitan State University; Minnesota State University, Mankato; Minnesota State University Moorhead; St. Cloud State University; Southwest Minnesota State University; Bemidji State University; and Winona State University – and four colleges – Rochester Community and Technical College, North Hennepin Community College, Inver Hills Community College, and Minneapolis Community and Technical College – to present their research and scholarly and creative projects. This year’s conference has experienced an impressive 100% increase in student presentations, reflecting the passion and commitment of faculty, students, staff, and administration.

We are also proud of the intercampus collaboration and engagement that has emerged during the planning of this conference. This has been a great opportunity for faculty, staff and students to work together and learn from each other. Collectively, everyone involved has helped elevate MnSCU’s reputation as a leader in undergraduate research. That reputation depends heavily on time, energy and resources that students, faculty and staff invested into the poster and oral presentations that are part of this conference.

I commend our students’ creativity and commitment to solve real world problems. I am confident that this experience will prove useful throughout our students’ lives.

Thank you for participating in the 2013 MnSCU Conference of Undergraduate Scholarly and Creative Activity.

Steven Rosenstone
Welcome to the second annual MnSCU Undergraduate Research Conference of Scholarly and Creative Activity. It is a great honor for Minnesota State University, Mankato to host this conference. We have a long history of recognizing the research of our own undergraduate students, and we are pleased to be able to showcase the research and creative activity of students from throughout the Minnesota State Colleges and Universities system.

The accomplishments embodied in the projects at this year’s conference came about through the collaboration of talented, motivated students and dedicated faculty mentors. It takes a tremendous amount of time, energy and passion to complete such projects, and I applaud all those who took part in the process, including students, faculty and staff from every involved institution.

Participating in undergraduate research, and working one-on-one with a faculty mentor in the process, can be a life-changing opportunity for many students. Not only does it enrich a student’s collegiate experience, it also has a wide-reaching impact that can lead to the pursuit of advanced degrees, open doors to career opportunities and encourage a lifelong love of learning.

Minnesota State University, Mankato is proud to celebrate the achievements of everyone involved in the 2013 MnSCU Undergraduate Research Conference of Scholarly and Creative Activity.

Enjoy your time in Mankato!

Richard Davenport
President
Minnesota State University, Mankato
Dr. Schultz is an Associate Professor in Human Resource Management (HRM) for the College of Management at Metropolitan State University in Minneapolis, Minnesota. She serves as the Curriculum Coordinator for the undergraduate HRM program and teaches graduate and undergraduate courses in management, HRM, and business administration. She earned a B.S. in Philosophy from the University of Wisconsin-LaCrosse, an M.Ed. in Higher Education from the University of Georgia, an M.B.A. in Management from Our Lady of the Lake University (San Antonio, TX) and a Ph.D. in Human Resource Development from the University of Minnesota-Twin Cities. She has over 20 years of experience in collegiate teaching, higher education administration, and business. She has held leadership positions in human resources, sales, marketing, and executive management; including strategic corporate leadership and profit/loss responsibilities.

She has an active research and writing agenda focused on formal workplace social networks, classroom research on student attitudes and perceptions of pedagogy, and the application of barrier-free teaching practices across the curriculum. She has presented original research at the International College Teaching and Learning Conference, International Applied Business Conference, The Academy of Human Resource Development International Research Conferences in the Americas, the Midwest Academy of Management Annual Meetings, and the International Academy of Business Disciplines Annual Meeting. Her research has been published in the Business Research Yearbook, American Journal of Business Education, Journal of Business and Education Research, Journal of Diversity Management, Journal of College Reading and Learning, Contemporary Issues in Education Research, and Research & Teaching in Developmental Education. She was the recipient of the 2011 Metropolitan State University Antiracism and Diversity Leadership Award. She is the Program Chair-elect for the Midwest Academy of Management.
MN Conference of Undergraduate Scholarly and Creative Activity Campus Coordinators

Minnesota State University- Mankato
Marilyn Hart- Director Undergraduate Research Center

Minnesota State University- Moorhead
Richard Lahti- Chemistry

Winona State University
Mike Delong- Director Large Rivers Studies Center

Southwest Minnesota State University
Emily Deaver- Environmental Science

St. Cloud State University
Linda Donnay- Office of Sponsored Programs

Bemidji State University
Troy Gilbertson- Professor, Criminal Justice

Metropolitan State University
Jennifer Schultz- Asst Prof and Curriculum Coordinator for Human Resource Management
### Sunday, April 7 Schedule of Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 – 8:00 pm</td>
<td>Check-in, Registration</td>
<td>CSU Game room</td>
</tr>
<tr>
<td>6:00 – 8:00 pm</td>
<td>Evening Social and Pizza</td>
<td>CSU Game room</td>
</tr>
<tr>
<td>7:00 – 9:00 pm</td>
<td>Bowling and Billiards</td>
<td>CSU Game room</td>
</tr>
</tbody>
</table>

### Monday, April 8 Schedule of Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:30 am – 3:00 pm</td>
<td>Check-in, Registration</td>
<td>CSU Ballroom Lobby</td>
</tr>
<tr>
<td>8:00 – 9:30 am</td>
<td>Continental Breakfast, provided</td>
<td>CSU Central Ballroom</td>
</tr>
<tr>
<td>8:15 – 8:30 am</td>
<td>Opening Remarks</td>
<td>CSU Central Ballroom</td>
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<tr>
<td></td>
<td>Richard Straka, VP Finance and Administration, MSU Mankato</td>
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<tr>
<td>8:30 – 11:30 am</td>
<td>Graduate Fair</td>
<td>CSU Southeast Ballroom</td>
</tr>
<tr>
<td>8:30 – 10:30 am</td>
<td>Poster Session 1</td>
<td>CSU 253/4/5</td>
</tr>
<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1A</td>
<td>CSU 201</td>
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<tr>
<td></td>
<td>Economics</td>
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<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1B</td>
<td>CSU 202</td>
</tr>
<tr>
<td></td>
<td>History</td>
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<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1C</td>
<td>CSU 203</td>
</tr>
<tr>
<td></td>
<td>Biology, Chemistry</td>
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<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1D</td>
<td>CSU 204</td>
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<tr>
<td></td>
<td>Automotive Engineering, Electrical Engineering, Mathematics and Computer Science</td>
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<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1E</td>
<td>CSU 238</td>
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<td></td>
<td>English</td>
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<tr>
<td>9:00 – 10:00 am</td>
<td>Oral Session 1F</td>
<td>CSU 284A</td>
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<tr>
<td></td>
<td>Philosophy, Political Science</td>
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<tr>
<td>Time</td>
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<td>9:00 – 10:00 am</td>
<td><strong>Oral Session 1G</strong></td>
<td>CSU 285</td>
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<tr>
<td></td>
<td>Geology, Automotive Engineering</td>
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<tr>
<td>10:15 – 11:15 am</td>
<td><strong>Oral Session 2A</strong></td>
<td>CSU 201</td>
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<tr>
<td></td>
<td>English</td>
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<tr>
<td>10:15 – 11:30 am</td>
<td><strong>Oral Session 2B</strong></td>
<td>CSU 202</td>
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<tr>
<td></td>
<td>Language and Ethnic Studies, International</td>
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<td>Studies, American Culture, World Languages</td>
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<td>and Culture</td>
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<td>10:15 – 11:15 am</td>
<td><strong>Oral Session 2C</strong></td>
<td>CSU 203</td>
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<tr>
<td></td>
<td>Biology, Chemistry, Mathematics</td>
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<tr>
<td>10:15 – 11:30 am</td>
<td><strong>Oral Session 2D</strong></td>
<td>CSU 204</td>
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<tr>
<td></td>
<td>Art &amp; Design, Art, Theatre Arts</td>
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<td>10:15 – 11:15 am</td>
<td><strong>Oral Session 2E</strong></td>
<td>CSU 238</td>
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<tr>
<td></td>
<td>Gender and Women’s Studies, Anthropology</td>
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<tr>
<td>10:15 – 11:15 am</td>
<td><strong>Oral Session 2F</strong></td>
<td>CSU 258</td>
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<tr>
<td></td>
<td>Political Science, Criminal Justice</td>
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<tr>
<td>10:15 – 11:15 am</td>
<td><strong>Oral Session 2G</strong></td>
<td>CSU 285</td>
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<tr>
<td></td>
<td>Philosophy, Political Science</td>
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<tr>
<td>11:15 – 11:30 am</td>
<td><strong>Break</strong></td>
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<tr>
<td>11:30 – 12:40 pm</td>
<td><strong>Celebration Lunch, provided</strong></td>
<td>CSU Central Ballroom</td>
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<tr>
<td></td>
<td><strong>Luncheon Keynote Speaker</strong></td>
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<td></td>
<td>Dr. Jennifer Schultz, Metropolitan State</td>
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<td>University</td>
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<td></td>
<td>“Undergraduate Research: Transferability of</td>
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<td>Scholarly and Creative Skills for Employment”</td>
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<tr>
<td>12:50 – 3:00 pm</td>
<td><strong>Graduate Fair</strong></td>
<td>CSU Southeast Ballroom</td>
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<tr>
<td>12:50 – 3:00 pm</td>
<td><strong>Undergraduate Discussion</strong></td>
<td>CSU Ballroom Lounge</td>
</tr>
<tr>
<td>12:50 – 2:50 pm</td>
<td><strong>Poster Session 2</strong></td>
<td>CSU 253/4/5</td>
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<tr>
<td></td>
<td>Biological Science, Chemistry, Environmental</td>
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<td>Science, Geoscience, Geography, Integrated</td>
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<td>Engineering, Manufacturing Engineering,</td>
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<td></td>
<td>Physics, Physics and Astronomy, Biotechnology</td>
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<tr>
<td>12:50 – 1:50 pm</td>
<td><strong>Oral Session 3A</strong></td>
<td>CSU 201</td>
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<tr>
<td></td>
<td>Economics, Government</td>
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<tr>
<td>Time</td>
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<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3B</td>
<td>Gender and Women’s Studies, Residential Life, Community Health</td>
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<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3C</td>
<td>History</td>
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<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3D</td>
<td>Education, Management</td>
</tr>
<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3E</td>
<td>English, Communication, Writing and Arts</td>
</tr>
<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3F</td>
<td>Physics and Astronomy, Physics, Environmental Science</td>
</tr>
<tr>
<td>12:50 – 1:50 pm</td>
<td>Oral 3G</td>
<td>Education, Communication, Writing, and the Arts</td>
</tr>
<tr>
<td>2:00 – 3:00 pm</td>
<td>Oral 4A</td>
<td>Elementary Education, English</td>
</tr>
<tr>
<td>2:00 – 3:00 pm</td>
<td>Oral 4B</td>
<td>Social Work, Sociology, Ethnic Studies, Student Development</td>
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<tr>
<td>2:00 – 3:00 pm</td>
<td>Oral 4C</td>
<td>Communication Studies</td>
</tr>
<tr>
<td>2:00 – 3:15 pm</td>
<td>Oral 4D</td>
<td>Film, Art Design</td>
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<tr>
<td>2:00 – 3:15 pm</td>
<td>Oral 4E</td>
<td>Creative Writing, Communication, Writing and Arts</td>
</tr>
<tr>
<td>2:00 – 3:15 pm</td>
<td>Oral 4F</td>
<td>Biology, Chemistry and Geology, Mathematics and Statistics</td>
</tr>
<tr>
<td>2:00 – 3:00 pm</td>
<td>Oral 4G</td>
<td>Psychology, Counseling and Student Affairs</td>
</tr>
</tbody>
</table>
1. Alternative Approaches to Problems in Contemporary Parent - Child Relationships: Russian Context
   Anastasiya Gerasimova
   *Elizabeth Sandell, Faculty Mentor (Department of Elementary and Early Childhood Education)*
   MSU Mankato

2. Teaching Easy Onsets Effectively for Optimum Transfer Outside of the Clinical Setting
   Jessica Nemitz, Perrin Thomas and Megan Brantley
   *Sarah Smits-Bandstra, Faculty Mentor (Department of Communication Sciences and Disorders)*
   St Cloud State University

3. Poster on the Poster
   Sheri Stiles and Lindsey Angove
   *Jennifer Schultz, Faculty Mentor (Department of Management)*
   *Kristi Frykman, Faculty Mentor (Department of Communication, Writing, and the Arts)*
   Metropolitan State University

4. Teaching Pausing for Optimum Transfer Outside of the Clinical Setting
   Brittany Stolt, Elizabeth Dahl and Karlee Korman
   *Sarah Smits-Bandstra, Faculty Mentor (Department of Communication Sciences and Disorders)*
   St Cloud State University

5. Innovations in Pre-School Education in Russia’s Far East Region
   Ekaterina Lepekha
   *Elizabeth Sandell, Faculty Mentor (Department of Elementary and Early Childhood Education)*
   MSU Mankato

6. Plague of the Black Dog
   Ann Kopitzke
   *Tom Williford, Faculty Mentor (History Program)*
   Southwest MSU

7. The Community’s Awareness of the Children’s Museum of Southern Minnesota
   Marcie Woitas and Amanda Hunstad
   *Heather Von Bank, Faculty Mentor (Department of Family Consumer Science)*
   MSU Mankato

   Julia Viviana Santiago
9. Analysis of IT Project Failures from a Multi-Cultural Perspective  
   Zainab Hamza  
   Susan Schilling, Faculty Mentor (Department of Information Systems)  
   MSU Mankato

10. A New Information System to Track Graduation Time Lines  
    Bruce Merrell, Alex Holm, James Martin and Tyrone Sellner  
    Mark Schmidt, Faculty Mentor (Department of Information Systems)  
    St Cloud State University

11. Is the American Dream Dead Among College Students?  
    Kathryn Olson  
    Kristin Scott, Faculty Mentor (Department of Marketing)  
    MSU Mankato

12. Achieving Sustainability for a Health Outreach Traveling Service  
    Georgia Stumpf and Megan Isackson  
    Amy Reitmaier and Carrie Spier, Faculty Mentors (Department of Nursing)  
    Winona State University.

13. Cultural Competency Increases the Effectiveness of Health Education in Guatemala,  
    Particularly When Addressing Malnutrition  
    Amie Bartlett  
    Jane Bergland, Faculty Mentor (Department of Nursing)  
    MSU Moorhead

14. Stearns County Public Health Breastfeeding Resources  
    Jenita Teachout and Heather Martell  
    Melinda Hiemenz and Jo DeBruycker, Faculty Mentors (Department of Nursing)  
    St Cloud State University

15. Parental Satisfaction with Involvement at Child Care Center  
    Amanda Hunstad and Marcie Woitas  
    Heather Von Bank, Faculty Mentor (Department of Family Consumer Science)  
    MSU Mankato

16. Community Assessment of Diabetic Foot Ulcers in Concepción, Chile  
    Diana Gehrman, Katherine Piehl and Johanna Mahoney  
    Melinda Hiemenz and Vonna Henry, Faculty Mentors (Department of Nursing)  
    St Cloud State University

17. Breaking the Silence: Perceptions of HIV/AIDS Among African Americans in the
18. **Class Standing – Does it Effect Civic Engagement?**
   Laura Lake
   Kara Lindaman, Faculty Mentor (Department of Political Science and Public Administration)
   Winona State University

19. **Laptops in Classrooms: Evaluating Potential Benefits of Technology Against Distractions Part 3**
   Maria Almoite and Felicia VandeNest
   Karla Lassonde, Faculty Mentor (Department of Psychology)
   MSU Mankato

20. **Discrimination of Emotion in Music: An Eye-Tracking Study**
    Megan Boeddeker and Bria Itzen
    Elizabeth Navrot, Faculty Mentor (Department of Psychology)
    MSU Moorhead

    Stacy Anderson
    Karla Lassonde, Faculty Mentor (Department of Psychology)
    MSU Mankato

22. **The Influence of Academic Motivation, Academic Ability, and Self-Esteem on Academic Performance**
    Tracy Kellen, Kayli Timm and Kaeley Rolland
    J. Corey Butler, Faculty Mentor (Department of Psychology)
    Southwest MSU

23. **Examining The Use of Extended Time Accommodations at a University Setting**
    MaryBeth Armstrong and Daniel Spencer
    Carlos Panahon, Faculty Mentor (Department of Psychology)
    Melissa Stewart and Marcia Sytsma, Graduate Student Mentors (Department of Psychology)
    MSU Mankato

24. **Surveying Teachers About The Use of Stability Balls As An Intervention**
    Nicole Kafka and RaeLynn Limberg
    Carlos Panahon, Faculty Mentor (Department of Psychology)
    Natasha Olson, Graduate Student Mentor (Department of Psychology)
    MSU Mankato
25. **Stereotypical Series: Portrayal of GLBT Characters in the Media**  
Lauren Teal  
*Kerry Livingston, Faculty Mentor (Department of Sociology)*  
*Southwest MSU*

26. **Examining the Role of Intuition in Deception Detection**  
Chelsea Schmillen and Colette Baudoin  
*Emily Stark, Faculty Mentor (Department of Psychology)*  
*MSU Mankato*

27. **Shelter Life**  
Jamie Linnemon  
*Ruth Charles, Faculty Mentor (Department of Social Work)*  
*Winona State University*

28. **Investigating Teachers’ Perceptions of Students With EBDs**  
Cassandra Schreiber and Ashley Kuemper  
*Carlos Panahon, Faculty Mentor (Department of Psychology)*  
*Dana Shea, Graduate Student Mentor (Department of Psychology)*  
*MSU Mankato*

29. **LGBT Suicide Rates Among Teens in the United States**  
Katherine Bullock  
*Shannon Terry, Faculty Mentor (Department of Sociology)*  
*MSU Moorhead*

30. **Impacts of Toxic Wastes On Somali People Who Live Along The Coast**  
Ahmed Shiiraar  
*Raymond Asomani, Faculty Mentor (Department of Urban and Regional Studies)*  
*MSU Mankato*

31. **Invisible Women and the Flood of 2009**  
Kathryn Kottenbrock  
*Claudia Murphy, Faculty Mentor (Department of Women’s Studies)*  
*MSU Moorhead*

32. **Feminist Perspectives on the Flooding Red River of the North: Students and Flood of 2009**  
Tiffany Zilka  
*Claudia Murphy, Faculty Mentor (Department of Women’s Studies)*  
*MSU Moorhead*

33. **Ecuador’s Indigenous Groups and Emigration**  
Myra Colakovic  
*Elizabeth Harsma, Faculty Mentor (Department of World Languages and Cultures)*  
*MSU Mankato*
34. “Girl”  
Jayme Wiertzema  
*Ryan Muldowney, Faculty Mentor (Department of Art)*  
*Southwest MSU*

35. **Ecosystem Tower Puzzle Game Demonstrates Sustainable Food Systems Model**  
Aaron Murray and Thomas Gorycki  
*Janet Macon, Faculty Mentor (Department of Health, Exercise and Rehabilitative Sciences)*  
*Winona State University*
Economics

1. Economic development in mid-sized cities: A case study of urban transportation in Fargo-Moorhead
   Ka-wai Lau
   Tonya Hansen, Faculty Mentor (Department of Economics)
   MSU Moorhead

2. The Relationship Between State Government Political Ideology and Deficit
   Curtis Gruidl
   Ihsuan Li, Faculty Mentor (Department of Economics)
   MSU Mankato

3. Is language a barrier to foreign direct investment?
   Rachel Hettich
   Tonya Hansen, Faculty Mentor (Department of Economics)
   MSU Moorhead

4. An Analysis of Labor and Infrastructure Issues Brought by the North Dakota Oil Boom
   Ozlem Barin
   Ihsuan Li, Faculty Mentor (Department of Economics)
   MSU Mankato
History

1. Captain America, Politics, and Social Movements
   Christian Brown
   *Tom Williford, Faculty Mentor (Department of History)*
   *Southwest MSU*

2. Civil Commitments and Legal Regulations of Sex Offenders in the Late Twentieth Century
   Amanda Larsen
   *Heather Hawkins, Faculty Mentor (Department of History)*
   *Winona State University*

3. The Great Deceiver in Milton and Tolkien
   Maureen Hukill
   *Henry Chan, Faculty Mentor (Department of History)*
   *MSU Moorhead*

4. The Green Revolution in India
   Heidi Zimmerman
   *Sumiko Otsubo Sitcawich, Faculty Mentor (Department of History)*
   *Metropolitan State University*
1. **Survivorship of Men and Women from Lyon County, Minnesota during the Spanish Influenza Pandemic**  
   Jessica Sheehan and Diana Moe  
   *E.A. Desy, Faculty Mentor (Department of Biology)*  
   *Southwest MSU*

2. **Translational Repression and P-body Formation: A Novel Cellular Response to Chromium (VI) Induced Genotoxic Stress in S. cerevisiae**  
   Whitney Hopfauf, Chris Bullard, Sara Segner, Blaine Rathmann and Tony Koch  
   *Ted Wilson and Scott P. Segal, Faculty Mentors (Department of Biology)*  
   *Winona State University*

3. **Empirical analysis of the effect of NCAA sanctions on the employment and wages of a city**  
   Cody Brandt  
   *Tonya Hansen, Faculty Mentor (Department of Chemistry)*  
   *MSU Moorhead*

4. **Determining Common Factors That Influence Academic Success in Allied Health Chemistry**  
   Alice Chan  
   *Heather Sklenicka, Faculty Mentor (Department of Chemistry)*  
   *Rochester Community and Technical College*
1. Electrical Charging Output
Nicholas Kolhoff
Bruce Jones, Faculty Mentor (Department of Automotive Engineering Technology)
MSU Mankato

2. Analysis of Odocoileus Virginianus Data Collected in Upper Midwest
Lawrence Moeller, Jr.
Derek Webb, Faculty Mentor (Department of Mathematics and Computer Science)
Bemidji State University

3. 2013 Formula SAE Chassis and Suspension Research and Development
Scott Neil
Gary Mead, Faculty Mentor (Department of Automotive Engineering Technology)
MSU Mankato

4. Low-Cost Integration of Camera and Motion Capture For Use in Pediatric Neuromotor Therapy Options
Eric Taintor, Eric Diep, and Melissa Hoppe
Mohammad Habibi, Faculty Mentor (Department of Electrical Engineering)
MSU Mankato
1. Classical & Christian Values in Shakespeare’s “Hamlet”  
   Dylan Brenner  
   David Higgins, Faculty Mentor (Department of English)  
   Inver Hills Community and Technical College

2. Assumptions Based on Accent  
   Elizabeth Fink  
   Elizabeth Kirchoff, Faculty Mentor (Department of English)  
   MSU Moorhead

3. Parallels between the Characters of Hamlet  
   Jamie Cleven  
   David Higgins, Faculty Mentor (Department of English)  
   Inver Hills Community College

4. Eng444 Advanced Poetry Workshop - Class Reading  
   Thomas Delano, Lawrence Wiggins, Heidi Sampson, Max Peterson, and Lillian Lamoreux  
   Roger Sheffer, Faculty Mentor (Department of English)  
   MSU Mankato
Philosophy, Political Science

1. Limit the Family
   Jessica Wierzchowski
   Marilea Bramer, Faculty Mentor (Department of Philosophy)
   MSU Moorhead

2. Spring Survey of SCSU Student 2013
   Karen Stay
   Stephen Frank, Michelle Hammes and Steven Wagner, Faculty Mentors (Department of Political Science)
   John Kulas, Faculty Mentor (Department of Psychology)
   St. Cloud State University

3. The Necessity of Friendship: A Feminist Critique and Perspective
   Kathryn Lucero
   Marilea Bramer, Faculty Mentor (Department of Philosophy)
   MSU Moorhead

   John Goerke
   Marilea Bramer, Faculty Mentor (Department of Philosophy)
   MSU Moorhead
1. Formula SAE Shifting
   Ethan Blomquist
   Bruce Jones, Faculty Mentor (Department of Automotive Engineering Technology)
   MSU Mankato

2. Silica Remobilization in the Mesabi Iron Range: Mine Ore-Waste Cutoff Prediction
   Ryan Rague
   Steven Losh, Faculty Mentor (Department of Geology)
   MSU Mankato

3. High Altitude Balloon Flight Patterns and Elastic Limitations
   Jake Mack
   Tim Kroeger, Faculty Mentor (Department of Geology)
   Bemidji State University

4. Particulate Emissions of Diesel Methane
   Paul Hill
   Bruce Jones, Faculty Mentor (Department of Automotive Engineering Technology)
   MSU Mankato
1. Characterizing Glinda as a Good Witch
   Katelin Hansen
   *Laura Fasick, Faculty Mentor (Department of English)*
   *MSU Moorhead*

2. A Song Telling of Ophelia
   Julia Fong
   *David Higgins, Faculty Mentor (Department of English)*
   *Inver Hills Community College*

3. The Great Deceiver in Milton and Tolkien
   Maureen Kraft
   *Stephen Hamrick, Faculty Mentor (Department of English)*
   *MSU Moorhead*

4. Disappointment and Failure
   Debra Koenig
   *David Higgins, Faculty Mentor (Department of English)*
   *Inver Hills Community College*
Language and Ethnic Studies, International Studies, American Culture, World Languages and Culture

1. “A lot of stuff on today is Coonery Buffoonery”: Stereotypes of Black Masculinity in Modern Film
   Zachary Toliver
   Phyllis May-Machunda, Faculty Mentor (Department of American Multicultural Studies)
   MSU Moorhead

2. Ojibwe Grammatical Terms in Ojibwe Language Teaching
   Jordyn Flaada
   Giniwgiizhig, Faculty Mentor (Department of Languages and Ethnic Studies)
   Bemidji State University

3. Current Impact and Consequences of Islamic Immigration in the Country of Tolerance, the Netherlands
   Jed Eix
   Andrew Conteh, Faculty Mentor (Department of International Studies)
   MSU Moorhead

4. For the Right to Water and Preservation of Life: Against the Privatization of Resources in Peru
   Kayla Abtin
   Andrew Conteh, Faculty Mentor (Department of International Studies)
   MSU Moorhead

5. The Literature of the Latin American Dictatorships and the United States
   Desiree Gobey
   Adriana Gordillo, Faculty Mentor (Department of World Languages and Cultures)
   MSU Mankato
Biology, Chemistry and Mathematics

1. Insect Diversity in Southwest Minnesota
   Ashley Edwards, Rachel Patnoe and Jessica Peterson
   E.A. Desy, Faculty Mentor (Department of Biology)
   Southwest MSU

2. Generalized Peano Functions
   Seth Meyer
   Damiano Fulghesu, Faculty Mentor (Department of Mathematics)
   MSU Moorhead

3. Impacts of a Flood Pulse on Limnetic Macroinvertebrate Communities in Minnesota River Backwaters
   Jessica Nelson
   Shannon Fisher, Faculty Mentor (Department of Biological Sciences)
   Adam Nickel, Graduate Student Mentor (Department of Biological Sciences)
   MSU Mankato

4. Development of a Research-Like Experience For Allied Health Biochemistry Students
   Alison Seemann
   Heather Sklenicka, Faculty Mentor (Department of Chemistry)
   Rochester Community and Technical College
Art & Design, Art, Theatre Arts

1. The Possibility Of Implementing Sustainable Energy Projects At Bemidji State University
   Sanjay Maharjan
   *Mahmoud Al-Odeh, Faculty Mentor (Department of Technology, Art & Design)*
   *Bemidji State University*

2. The Failure of St. Pierre Cathedral at Beauvais
   Kathryn Jacobson
   *Holly Silvers, Faculty Mentor (Department of Art & Design)*
   *MSU, Moorhead*

3. A Series of Paranoia
   Ashton Bird
   *Mika Laidlaw, Faculty Mentor (Department of Art)*
   *MSU Mankato*

4. Wastewater Treatment at Petrochemical Refineries
   Charles Sandiford
   *Mahmoud Al-Odeh, Faculty Mentor (Department of Technology, Art & Design)*
   *Bemidji State University*

5. “Othello”: Cross-Disciplinary Teaching in English and Theatre
   Maggie Olson
   *David Wheeler, Faculty Mentor (Department of Theatre Arts)*
   *MSU Moorhead*
Gender and Women’s Studies, Anthropology

1. **Anthropological Study of Breastfeeding and Maternal Health**  
   Andrea Kochensparg er  
   *Bruce Roberts, Faculty Mentor (Department of Anthropology)*  
   *MSU Moorhead*

2. **The Under-Representation of Minorities in Political Careers**  
   Chelsea Barr and Ina Pae  
   *Shannon Miller, Faculty Mentor (Department of Gender and Women’s Studies)*  
   *MSU Mankato*

3. **Obesity in the Independent State of Samoa**  
   Matthew Doherty  
   *Bruce Roberts, Faculty Mentor (Department of Anthropology)*  
   *MSU Moorhead*

4. **The Disney ‘Princess’ Model and its Impact on Toys**  
   Natasha Frank  
   *Shannon Miller, Faculty Mentor (Department of Gender and Women’s Studies)*  
   *MSU Mankato*
Political Science, Criminal Justice

1. **California Three Strikes Law: Outside Students' Perspectives**  
   Jimmy Moore  
   *Troy Gilbertson, Faculty Mentor (Department of Criminal Justice)*  
   *Bemidji State University*

2. **Migrant Children in the U.S. School System**  
   Hannah Hanson  
   *Andrew Conteh, Faculty Mentor (Department of Political Science)*  
   *MSU Moorhead*

3. **Attitudes Towards Regulation of Nuclear Energy Prior To And Following Nuclear Disasters**  
   Jordan Peterson  
   *Kara Lindaman, Faculty Mentor (Department of Political Science and Public Administration)*  
   *Winona State University*

4. **Student's Opinions and Perceptions of Their Local Law Enforcement**  
   Grant Holy  
   *Troy Gilbertson, Faculty Mentor (Department of Criminal Justice)*  
   *Bemidji State University*
Philosophy, Political Science

1. The Demographic and Geographic Basis of Municipal Annexation in Minnesota
   Paul Kirchoff
   *Patrick Donnay, Faculty Mentor (Department of Political Science)*
   *Bemidji State University*

2. Amongst Defense Attorneys
   Ashley Ramstad
   *Marilea Bramer, Faculty Mentor (Department of Philosophy)*
   *MSU Moorhead*

3. Does Marriage Promote Inequality?
   Jessica Hillesheim
   *Marilea Bramer, Faculty Mentor (Department of Philosophy)*
   *MSU Moorhead*

4. Is FEMAMisunderstanding Mitigation?
   Natasha Kleinsasser
   *Patrick Donnay, Faculty Mentor (Department of Political Science)*
   *Bemidji State University*
1. **Listeria monocytogenes** Produces Biofilms on Common Manufacturing Line Components  
   Megan Rasmussen, Holly Garding and Joy Chamberlain  
   *Nicole Aulik, Faculty Mentor (Department of Biology)*  
   Winona State University

2. Macrophage extracellular trap formation in response to *M. haemolytica* or its leukotoxin is altered by co-incubation with bovine herpes virus-1 infected bronchiolar epithelial cells  
   Taylor Mallinger and Kristine Gerber  
   *Nicole Aulik, Faculty Mentor (Department of Biology)*  
   Winona State University  
   Neelima Sennakayala and Charles Czuprynski, Faculty Mentors  
   *(Department of Pathobiological Sciences)*  
   University of Wisconsin - Madison

3. Female Neutrophils Produce Less Neutrophil Extracellular Traps in Response to the *Escherichia Coli* Hemolysin Than Male Neutrophils  
   Leah Dols  
   *Nicole Aulik, Faculty Mentor (Department of Biology)*  
   Winona State University

4. Familial Odor-Tracking by Larval Fish  
   Emily Mammenga, Carissa Storseth and Noah Berglund  
   *Brian Wisenden, Faculty Mentor (Department of Biology)*  
   MSU Moorhead

5. 20,000 mm Under the Lake: Hemoglobin Expression in *Ambystoma tigrinum*  
   Jorge Polanco, Elijah Velasquez, Gabriel Velez, Katelyn Magidan and Erin Gilliland  
   *Amy M. Runck and Frances Ragsdale, Faculty Mentors (Department of Biology)*  
   Winona State University

6. Effects of Chemical Cues on Skeletal Ossification in Costa Rican Cichlid Embryos  
   Nicole Olson and Brittney Rother  
   *Shireen Alemadi, Faculty Mentor (Department of Biology)*  
   MSU Moorhead

7. Characterization of Leukocytes Involved in Pathogenesis of Type 1 Diabetes in NOD Mice Exposed to a Persistent Organic Pollutant  
   Andrew Scott and Broc Schindler  
   *Sarah Smits-Bandstra, Faculty Mentor (Department of Biological Sciences)*  
   St Cloud State University
8. Do Painted Turtles Utilize “Nursery” Sloughs?  
Ashlyn Kuklock, Amie Nowacki, Angela Kooren, Chelsea Schmaltz, Emily Jorgenson,  
Jaclyn Kuklock, Jaime Kallstrom, Kara Nygaard, Kristin Wittman and Ryan Schmit  
Donna Stockrahm, Faculty Mentor (Department of Biology)  
MSU Moorhead

9. Antimicrobial Properties of Kombucha Ferments Against Bacteria and Yeast  
James Lawton II  
Renu Kumar, Faculty Mentor (Department of Microbiology)  
Minneapolis Community and Technical College

10. The Efficacy of PIT Tag Use in Painted Turtles  
Ashlyn Kuklock, Amie Nowacki, Angela Kooren, Chelsea Schmaltz, Emily Jorgenson,  
Jaclyn Kuklock, Jaime Kallstrom, Kara Nygaard, Kristin Wittman and Ryan Schmit  
Donna Stockrahm, Faculty Mentor (Department of Biology)  
MSU Moorhead

11. How Intra-Clonal Density-Mediated Competition Among Rhizomes Affects the Distribution of  
Ramets in Three Typha Species  
Joseph Bottoms and Breeanna Bateman  
Bradley Cook, Faculty Mentor (Department of Biological Sciences)  
MSU Mankato

12. Mail Surveys to Estimate Minimum Wild Turkey (Meleagris gallopavo) Population  
Ashlyn Kuklock, Jaclyn Kuklock, Amie Nowacki, Chelsea Schmaltz, Jaime Kallstrom,  
Kara Nygaard and Kristin Wittman  
Donna Stockrahm, Faculty Mentor (Department of Biology)  
MSU Moorhead

13. Effect of DDE on Type 1 Diabetes Incidence in NOD Mouse Model  
Sinduja Thinamany  
Marina Cetkovic-Cvrlje, Faculty Mentor (Department of Biological Sciences)  
St Cloud State University

14. Metabolic Diversity in Bacteria Associated With Earthworm Cocoons  
Jeremy Balster and Mark Walchuk  
Dorothy Wrigley, Faculty Mentor (Department of Biological Sciences)  
MSU Mankato

15. Effect of Persistent Organic Pollutants on Proliferative Capacity of Immune Cells  
Allan Lea  
Marina Cetkovic-Cvrlje, Faculty Mentor (Department of Biological Sciences)  
St Cloud State University
16. Effects of Developmental Hypothyroidism on Cochlear Hair Cells in Mice
Molly Haack and Steven Piroso
David Sharlin, Faculty Mentor (Department of Biological Sciences)
MSU Mankato

17. A Laboratory-based Scholarly Activity to Implement Advance Biochemistry Techniques in a 2-year A.S. Degree Program
Madeline Forbes
Rekha Ganaganur, Faculty Mentor (Department of Chemistry & Biotechnology)
Minneapolis Community and Technical College

18. Intracellular Localization of Novel Polyglutamine Protein FAM171B
Seth Hintze and Brittany Stamer
Geoffrey Goellner, Faculty Mentor (Department of Biological Sciences)
MSU Mankato

19. Analysis Of Mercury Present in Fish Samples From Lake Bemidji
Elizabeth Dicker
Keith Marek, Faculty Mentor (Department of Chemistry)
Bemidji State University

20. The Abundance and Diversity of Intestinal Parasites Collected From Blue-Winged and Ring Necked Ducks Inhabiting Lake Winnibigoshish, Minnesota
Omolayo Ogunnowo
Robert Sorensen, Faculty Mentor (Department of Biological Sciences)
MSU Mankato

Jacob Thalen
Rekha Ganaganur, Faculty Mentor (Department of Chemistry & Biotechnology)
Minneapolis Community and Technical College

22. Analysis of Chemical Elements in Fish Scales
Callie Sinclair and Natacha Tasha
Michael Bentley, Faculty Mentor (Department of Biological Sciences)
MSU Mankato

23. Identification of Midgut Bacterial Flora of the Pitcher Plant Mosquito (Wyeomyia smithii) Larvae by 16S rRNA, recA, and gyrB Gene Sequence Analysis
Hannah Rorvick, Samuel Melchior, Zoey Armstrong and Jackie Jaspers
Tamara Mans, Faculty Mentor (Department of Biology)
North Hennepin Community College
24. **In vivo quantification of CHP-NHE1 interaction**  
   Clarice Wallert  
   *Joseph Provost, Faculty Mentor (Department of Chemistry)*  
   *MSU Moorhead*

25. **Complete Substitution of Calcium by Lanthanum (III) in Synthetic Calcium Vanadate Apatite**  
   Hilary Deragisch and Nicole Stenzel  
   *Lyudmyla Stackpool, Faculty Mentor (Department of Chemistry and Geology)*  
   *MSU Mankato*

   Jacob Thalen  
   *Rekha Ganaganur, Faculty Mentor (Department of Chemistry & Biotechnology)*  
   *Minneapolis Community and Technical College*

27. **The Expression of Atir in Hypertensive Male and Female Rat Kidneys**  
   Sonika Sainju  
   *Theresa Salerno, Faculty Mentor (Department of Chemistry and Geology)*  
   *MSU Mankato*

28. **Diversity of Invertebrates in a Prairie, Tree-covered and Mowed Lawn Area of the ADM-SMSU Environmental Learning Center**  
   Diana Moe  
   *Emily Deaver and Thomas Dilley, Faculty Mentors (Department of Environmental Science)*  
   *Southwest MSU*

29. **Application of Geographic Information Systems in Collegiate Football Recruiting**  
   Matthew O’Neil  
   *Rama Mohapatra, Faculty Mentor (Department of Geography)*  
   *MSU Mankato*

30. **Effects of Barley Extract on the Growth of Algae Spirogyra, Synedra, and Ankistrodesmus**  
   Brooke Burmeister  
   *Emily Deaver and Thomas Dilley, Faculty Mentors (Department of Environmental Science)*  
   *Southwest MSU*

31. **Implementing a Genetic Neural Network**  
   Joseph Kolhoff  
   *Dean Kelley, Faculty Mentor (Department of Integrated Engineering)*  
   *MSU Mankato*
32. **Sequence Stratigraphy of the Tyler Formation (Lower Pennsylvanian/Morrowan) in the Williston Basin, North Dakota.**
Stephen Kunz and Adam Marks
*Karl Leonard, Faculty Mentor (Department of Geoscience)*
*MSU Moorhead*

33. **Parametric Modeling of the Schlemm’s Canal Using Fused Deposition**
Mallory Westphal
*Winston Sealy, Faculty Mentor (Department of Manufacturing Engineering Technology)*
*Michael Bentley, Faculty Mentor (Department of Biological Sciences)*
*MSU Mankato*

34. **Learning to Control Our Population: The Impact of Women’s Education on the Future of Sustainability**
Jordan Pinneke
*Stephen Lindaas, Faculty Mentor (Department of Physics)*
*MSU Moorhead*

35. **Applied HLA Typing: can a lab test make better transplants possible?**
Kathryn Shufelt
*Rekha Ganaganur, Faculty Mentor (Department of Biotechnology)*
*Minneapolis Community and Technical College*

Keith Voeller
*Russell Lidberg, Faculty Mentor (Department of Physics and Astronomy)*
*St Cloud State University*

37. **Bitter Taste Receptors and Their Genes: Do They Influence the Diet and Lifestyle Choices We Make?**
Abby Beltrame
*Rekha Ganaganur, Faculty Mentor (Department of Biotechnology)*
*Minneapolis Community and Technical College*

38. **Lateral Field Time-of-Flight for Determination of Surface Charge Carrier Mobility**
Joseph Harter, Aaron Schulzetemberg and Justin Paulsen
*Russell Lidberg, Faculty Mentor (Department of Physics and Astronomy)*
*St Cloud State University*

39. **DNA Bar-coding: A Collaborative Research Project between Biotechnology Program and Urban Farm Collective Initiative, led by a PSEO biotechnology student**
Felix Meyer
*Rekha Ganaganur, Faculty Mentor (Department of Biotechnology)*
*Minneapolis Community and Technical College*
Economics, Government

1. The Role of the IMF in the East Asian Debt Crisis of 1997
   Yaro Sadek Tahirou
   Abdalla Battah, Faculty Mentor (Department of Government)
   MSU Mankato

2. Is Sustainable Growth Possible in the Energy-rich Russian Federation?
   Ryan Daly
   Tonya Hansen, Faculty Mentor (Department of Economics)
   MSU Moorhead

3. The Industrial Relationships in Time-Varying Beta Coefficients in US Industries
   Jongha Jung
   Kwang-Woo (Ken) Park, Faculty Mentor (Department of Economics)
   MSU Mankato
1. **The Politics of Black Women’s Hair**  
   Dieynaba Niabaly and Vanessa King  
   *Shannon Miller, Faculty Mentor (Department of Gender and Women’s Studies)*  
   *MSU Mankato*

2. **Increasing Diabetes in China and Its Impact**  
   Eva McClain  
   *Nandita Bezbaruah, Faculty Mentor (Department of Community Health)*  
   *MSU Moorhead*

3. **Reproductive and Sexual Health Disparities Among College-Aged Black Women: An Examination on Perceptions and Consequences**  
   Omolayo Ogunnowo  
   *Shannon Miller, Faculty Mentor (Department of Gender and Women’s Studies)*  
   *MSU Mankato*

4. **Safe Zone Training: Should BSU Have One & What Should it Look Like**  
   Joseph Moubry  
   *Randall Ludeman, Faculty Mentor (Department of Residential Life)*  
   *Bemidji State University*
History

1. **The Media’s Darkest Hour: How Propaganda Killed Millions in World War II**
   - Kevin Riemenschneider
   - *Tom Williford, Faculty Mentor (Department of History)*
   - *Southwest MSU*

2. **Bringing the Trash Back In**
   - Jimmy Clinton
   - *Heather Hawkins, Faculty Mentor (Department of History)*
   - *Winona State University*

3. **The Disappearing Women of Juarez and Chihuahua, Mexico: Femicide, and the Struggle For Women’s Rights**
   - LaShae Lambert
   - *Marlene Medrano, Faculty Mentor (Department of History)*
   - *MSU Mankato*

4. **Emmeline Pankhurst and the Women’s Social and Political Union: Scholarly Interpretations through the Ages**
   - Emily Schoephoerster
   - *Tom Williford, Faculty Mentor (Department of History)*
   - *Southwest MSU*
1. The Effects of Grief on Students and What School Administrators Are Doing To Help Students Cope and Succeed
   Betty Richardson
   *Kristine Snyder, Faculty Mentor (Department of Education)*
   *Minneapolis Community and Technical College*

2. The Impacts and Results of Online Presence for Small Business
   Emily Schmitt
   *Queen Booker, Faculty Mentor (Department of Management)*
   *MSU Mankato*

   Mai Yang
   *Mauvalyn Bowen, Faculty Mentor (Department of Management)*
   *Metropolitan State University*
English, Communication, Writing and Arts

1. Poetry
   Rebecca Lux
   Edward Bok Lee, Faculty Mentor (Department of Communication, Writing, and the Arts)
   Metropolitan State University

2. Poetry
   Xander Bilyk
   Edward Bok Lee, Faculty Mentor (Department of Communication, Writing and the Arts)
   Metropolitan State University

3. Hamlet, More Than a Dynamic Character
   Michael Peterson
   David Higgins, Faculty Mentor (Department of English)
   Inver Hills Community College

4. Henry IV and the Politics of Shakespeare’s Day
   Zelphia Peterson
   David Higgins, Faculty Mentor (Department of English)
   Inver Hills Community College
1. **A Photometry of the Young Cluster Berkley 87**  
   Abolaji Akinyemi  
   *Paul Eskridge, Faculty Mentor (Department of Physics and Astronomy)*  
   *MSU Mankato*

2. **Pinpointing the Period of EY Uma**  
   Hollee Johnson  
   *Matthew Craig, Faculty Mentor (Department of Physics)*  
   *MSU Moorhead*

3. **Target Development to Optimize 13N Extraction from Graphite**  
   Lucas Swanson, Udit Kapur, Nathan Gretz, and James Faraday  
   *Andrew Roberts, Faculty Mentor (Department of Physics and Astronomy)*  
   *MSU Mankato*

4. **Staphylococci Occurrence and Resistance to Antibiotics on the Southwest Minnesota State University Campus**  
   Rachel Graupmann  
   *Emily Deaver and Thomas Dilley, Faculty Mentors (Department of Environmental Science)*  
   *Southwest MSU*
1. **Successful African American Males**
   Charlena Davis  
   *Kristine Snyder, Faculty Mentor (Department of Education)*  
   *Minneapolis Community and Technical College*

2. **Big Foot: The Overwhelming Footprint of Pearson Publishing**
   Carole Braschayko  
   *Steven Grineski, Faculty Mentor (Department of Education)*  
   *MSU Moorhead*

3. **“Urban” and “Suburban” Schools**
   Brian Nelson  
   *Kristine Snyder, Faculty Mentor (Department of Education)*  
   *Minneapolis Community and Technical College*

4. **Afternoon Sessions**
   Pearl Madryga  
   *Edward Bok Lee, Faculty Mentor (Department of Communication, Writing, and the Arts)*  
   *Metropolitan State University*
Elementary Education, English

1. **The Grave Yard Exposure of Hamlet’s Soul**  
   Luke Zenker  
   *David Higgins, Faculty Mentor (Department of English)*  
   *Inver Hills Community College*

2. **School Violence in Russia Federation**  
   Olga Pestereva  
   *Elizabeth Sandell, Faculty Mentor (Department of Elementary and Early Childhood)*  
   *MSU Mankato*

3. **Comparison of Inter-Cultural Competency Between American and Russian Undergraduate Students**  
   Elizabeth Lohrenz, Olga Pestereva, and Audrey Kalugin  
   *Elizabeth Sandell, Faculty Mentor (Department of Elementary and Early Childhood Education)*  
   *MSU Mankato*

4. **“Rosamede” and Gender Perception**  
   Mariah Schumacher  
   *David Higgins, Faculty Mentor (Department of English)*  
   *Inver Hills Community College*
1. **Towards a Culturally Competent Food Shelf**  
Pajtshiab Ly and Mai Lee  
*Marilyn Virgil and Cindi Yang, Faculty Mentors (Department of Social Work)*  
*Metropolitan State University*

2. **Addressing Accessibility: Analysis of Disability Services Policy and Practice at Bemidji State University with Specific Regard to Assistive Technology**  
Maria Eastman  
*Debra Peterson, Faculty Mentor (Department of Sociology)*  
*Bemidji State University*

3. **The Arab-African Minority in East Africa: Issues of Identity, Integration and Assimilation**  
Ahmed Ahmed Bani  
*Kebba Darboe, Faculty Mentor (Department of Ethnic Studies)*  
*MSU Mankato*

4. **A Time to Lead**  
Kari Cooper  
*Mary Ward, Faculty Mentor (Department of Student Development & Enrollment)*  
*Bemidji State University*
1. **Protecting the Wolf**  
   Jessica Wierzchowski  
   *Merrie Holtan, Faculty Mentor (Department of Communication Studies)*  
   *MSU Moorhead*

2. **Unfair Campaign Communication Analysis**  
   Nicole Hudak  
   *Leah White, Faculty Mentor (Department of Communication Studies)*  
   *MSU Mankato*

3. **Stepping Away from Creativity**  
   Meghan McLaughlin  
   *Merrie Holtan, Faculty Mentor (Department of Communication Studies)*  
   *MSU Moorhead*

4. **Exposing Violence in Children’s Films**  
   Nicole Jasperson and Jessica Jasperson  
   *Martin Grindeland, Faculty Mentor (Department of Communication Studies)*  
   *MSU Moorhead*
1. **Science-Fiction meets Art Cinema in a Senior Film Project**  
   Conor Holt  
   *Thomas Brandau, Faculty Mentor (Department of Film Studies)*  
   *MSU Moorhead*

2. **Gelly: An Exploration of Acrylic Gel Medium Sculptures**  
   Megan Moriarty  
   *James Johnson, Faculty Mentor (Department of Art)*  
   *MSU Mankato*

3. **From the Eye of the LGBT Community at MNSU**  
   Joshua Schutz  
   *Alisa Eimen, Faculty Mentor (Department of Art)*  
   *MSU Mankato*

   Simone LeClaire  
   *Anthony Adah, Faculty Mentor (Department of Film Studies)*  
   *MSU Moorhead*

5. **Melding Mediums, Fusing Metal and Glass**  
   Dustin Swiers  
   *Leslie Laidlaw, Faculty Mentor (Department of Art)*  
   *MSU Mankato*
1. **Poems:** *A Megan Fox Horror Movie, Dreamer, Limitless, Monarch, Outcast, and St. James.*

   Creative Non-Fiction: *Melted Ice Cream*

   Katie Schwarz
   
   Anthony Neil Smith, Judy Wilson and Marianne Murphy Zarzana, Faculty Mentors
   (Department of Creative Writing)
   Southwest MSU

2. **Current Events in Writing**

   Samantha Lemmerman
   
   Anthony Neil Smith, Judy Wilson and Marianne Murphy Zarzana, Faculty Mentors
   (Department of Creative Writing)
   Southwest MSU

3. **Creative Writing Reading**

   Tyson Tofte

   Anthony Neil Smith, Judy Wilson and Marianne Murphy Zarzana, Faculty Mentors
   (Department of Creative Writing)
   Southwest MSU

4. **Trees**

   Mackenzie Murphy

   Edward Bok Lee, Faculty Mentor (Department of Communication, Writing, and the Arts)
   Metropolitan State University

5. **Portrait of the Artist’s Intention: Simulacrum and the Pulse Between the Process**

   Nick Rivers

   Kristi Frykman, Faculty Mentor (Department of Communication, Writing, and the Arts)
   Metropolitan State University
1. **Examining the Verity of the Empty Niche Hypothesis Using Local Wetlands as Models**  
Nicholas Stephens  
*Bradley Cook, Faculty Mentor (Department of Biological Sciences)*  
*MSU Mankato*

2. **3’ Modifications on Myxomycete Slime Mold Mitochondrial mRNA Transcripts**  
Anna Hunt & Ariel Martin  
*Tamara Mans, Faculty Mentor (Department of Biology)*  
*MSU Moorhead*

3. **The Effects of Bisphenol-A (BPA) on the Feminization of Danio Rerio**  
Lina Wang  
*Theresa Salerno, Faculty Mentor (Department of Chemistry and Geology)*  
*Shannon Fisher, Faculty Mentor (Department of Biological Sciences)*  
*MSU Mankato*

4. **Diversity of Airborne Insects in the Prairie and Coniferous Forest of the SMSU Wildlife Area**  
Trista Hacker and James Oliver  
*E.A. Desy, Faculty Mentor (Department of Biology)*  
*Southwest MSU*

5. **Exploration of Music Theory Using Mathematical Modeling Techniques**  
Sarah Painter and Leah Lumley  
*Jeffrey Ford, Faculty Mentor (Department of Mathematics and Statistics)*  
*MSU Mankato*
Psychology, Counseling and Student Affairs

1. The Heard and the Hiding
   Samuel Birkholz
   Marsha Driscoll, Faculty Mentor (Department of Psychology)
   Bemidji State University

2. Multi-Cultural Experiences and Understanding
   Lamont Scaife
   Kevin Filter, Faculty Mentor (Department of Psychology)
   MSU Mankato

3. IT CAN W8: An Intervention to Decrease Cell Phone Use While Driving
   Sarah Frisch
   Angela Fournier, Faculty Mentor (Department of Psychology)
   Bemidji State University

4. Diversity Endorsement Program Proposal at MSU Moorhead
   Yi Chu and Katrina Brekke
   Donna Brown, Faculty Mentor (Department of Counseling & Student Affairs)
   MSU Moorhead
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