Tuesday, April 12, 2016



MINNESOTA STATE UNIVERSITY MOORHEAD PRESENTS

18th Annual Student Academic Conference

Student-Centered Education through Mentoring Student Research and Creative Activities



Since 1999











Greetings:

At Minnesota State University Moorhead, our purpose is to transform the world by transforming lives. Few experiences are as life changing as the opportunity to engage in original research or creative activity and present the results to our academic community.

The projects being presented today represent countless hours of planning, problem solving, experimentation, investigation, innovation, and preparation. Behind every project there is not only a motivated student but also a dedicated faculty mentor. It is the mentoring relationship—whether in the laboratory, the field, the theatre, the studio, the computer lab, or the classroom—that makes these applied learning opportunities truly transformative.

A cursory review of the conference program reveals that our students are tackling problems such as cancer, diabetes, global warming, sustainability, racial and gender inequality, and child welfare. In short, the Student Academic Conference provides ample evidence that

Minnesota State University Moorhead is a place where faculty and students work together to address some of the most important problems we face. In doing so, you have also contributed to the spirit of discovery, creativity, and innovation at the University—a spirit that enriches us all and just might change our world.

Congratulations to all of the student presenters and best wishes for continued success.

Sincerely,

Luchhud

Anne Blackhurst President



Conference Schedule
Letter: Joseph Bessie, Ph.D. Provost and Senior Vice President for Academic Affairs
Keynote Speaker: Christina E. Broadwell "You don't need to go to an Ivy League school for a first class education."
Student Panelists:Jennifer DeBlieck.7John Fitzer; Benjamin LeMay.8Netsai Ngongoni; Leandra Zeller.9
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Publication credits: Oscar Flores (chair of the Student Academic Conference Committee), Nate Gilbraith (project coordinator, writer and editor), Danielle Rebel (editor), Katie Faken (designer), David Arntson (photographer), MSUM Student Trent Zbichorski (writer) and MSUM Student Brittany Kelley (writer).

CONFERENCE SCHEDULE

18th Annual Student Academic Conference

Tuesday, April 12, 2016

8:00 a.m.	Featured Graduate Students' Lectures CMU 101
9:00 a.m.	Poster Set-Up—Registration/Information Table CMU Main Lounge
9:40 a.m.	Presentation Session 1 and Poster Session 1 Various CMU Rooms and Poster Display Area
11:00 a.m.	Seating for the Luncheon CMU Ballroom
11:10 a.m.	Luncheon Starts (Welcome and Introductions) CMU Ballroom
11:50 p.m.	Keynote Speaker—Christina E. Broadwell CMU Ballroom
12:10 p.m.	Student Panelists CMU Ballroom
12:40 p.m.	Presentation Session 2 and Poster Session 2 Various CMU Rooms and Poster Display Area
2:00 p.m.	Break
2:10 p.m.	Presentation Session 3 and Poster Session 3 Various CMU Rooms and Poster Display Area
7:30 p.m.	Working Gaede Stage Based on Studs Terkel's best-selling book of interviews with American workers, Working paints a vivid portrait of the men and women the world so often takes for granted.

Conference Participants and Attendees:

It is my honor to offer heartiest congratulations to this year's participants in the Student Academic Conference! Your initiative, energy, and scholarship have earned you a place in this important annual event. It showcases not only the academic work you've produced, but also illustrates and emphasizes your own leadership as investigators in and promoters of your academic discipline. I am personally excited and looking forward to the presentations.

This event allows our students to participate in what, for many of them, will become a regular part of their own future careers: for those who continue on to graduate degrees, the work of the academician requires not only the ability to investigate, to analyze, to compare and contrast but also to articulately distill their results and discoveries in order to contribute to a broader scholarly conversation, on the one hand, and that provide practical consequences for all our lives, on the other. But even for those who move on to non-academic careers, the ability to investigate, to acquire new information, to analyze and synthesize it, to present it, converse regarding it, and to apply it—all these skills are necessary and are evidenced by this year's student participants.



For those of you in attendance, well, you're in for a treat! Your attention to, enthusiasm for, and support of this event and our students is testimony to the great work of our students, and of the faculty and staff here at MSUM who serve as their mentors.

Congratulations, and thank you to all.

Joseph Bessie, Ph.D. Provost and Senior Vice President for Academic Affairs

EYNOTE SPEAKER

Christina E. Broadwell



You don't need to go to an Ivy League school for a first class education.

am so happy to be back home and at MSUM. I am honored to speak to all of you this afternoon... to share with moment with my family, to catch up and laugh with old friends, to give thanks to mentors and to meet and maybe steal some energy from young eager minds. Congratulations on all your hard work and achievements. You should all be very proud of yourselves and each other. Thinking back on my years at MSUM, participation at this conference, presenting research and my role as a student panelist, I became more nervous about taking on this new charge. What can I say that is important? What can I tell you that you don't already know? What would reach my ears and make me think 15 years ago? What

would I listen to? What would help me on my path? I don't know the answers to those questions. What I know is this... I would not be where I am today without MSUM and the very unique opportunities we provided to each other. MSUM gave me so much, I hope that what I gave/give back does not fall short.

So where am I? I am currently an assistant professor at the University of Wisconsin – Madison as a part of the department of Obstetrics and Gynecology. When I finished my education and training through residency and fellowship I had "graduated" from the 27th grade. No small feat.

Throughout these years, I worked with individuals from across the country that trained at some of the most prestigious schools in this country and abroad, Harvard, Stanford, Princeton, Yale, etc. At times I can still be intimidated by the names, but I have never felt as though my training and my education at MSUM was inferior to those listed. Of course it was different but not inferior. In fact, I strongly believe it was **that difference** that allowed me to have a wonderful advantage over them in the end.

That difference gave me so many things.

I met people like Dr. Jill Frederick, who taught me how to read poetry and write a fairly decent essay. Dr. Andrew Conteh, who taught me to how to understand how law is like the air we breathe. Jill Frederick, who opened the world to me, well Europe anyway with a wonderful Eurospring adventure. Last, but definitely not least, Dr. Mark Wallert, who gave me my academic future. Who gave me the opportunity to be where I am now through his time, his mentorship and his friendship. To my friends, Tanya Haugen, Christy Ficek, Jessica Jorgenson, Janine Solberg, Scott Hochhalter, Anna Lee, Gary Bailey, Tracey Anderson, and countless others who helped me be human. In all my goodness and badness, in my positive and negative moments. Without all of you the journey would have been less personal and less fulfilling.

That is a complete education. An education that gives, and can give even more depending upon what you give back to it. An education that provides a map for you to find your own, individual path. Not "a Suri" dictating a path with a blue line where to turn and where to focus your energies. The smaller sizes of classes, the wonderful teachers, and hungry classmates to help guide and challenge your education. Thank you, thank you. I hope I gave back as much as I took. I hope your example helps me continue to give back more than I take away. Thank you.

"What I know is this... I would not be where I am today without **MSUM** and the very unique opportunities we provided to each other. **MSUM** gave me so much, I hope that what I gave/give back does not fall short."





Student Academic Conference 2016

Student panelists represent outstanding academic achievement and demonstrate a passion for learning in and out of the classroom. Each panelist will prepare a reaction to the keynote speech. Their responses will be delivered following the keynote speaker's address.



Jennifer DeBlieck

MSUM Graduate student Major: Master of Science in Speech-Language Pathology

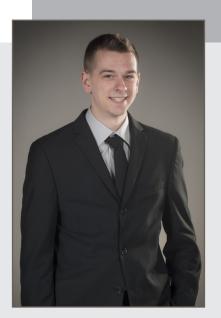
Currently, I am a student in the Master's of Science in Speech-Language Pathology (SLP) graduate program at MSUM. Growing up in the small town of Granite Falls, Minn., my passion for helping children began at a young age, which has guided me into this field. Here at MSUM, I have been provided with a wealth of opportunities during SLP classes, internship placements, and volunteer experiences. These opportunities have allowed me to gain leadership roles and become a confident professional. Previously, I have presented research at the American Speech- Language-Hearing Association National Convention; and, I am honored to present at the Student Academic Conference as well as participate in the student panel. My research topics have involved Classroom-based Interventions by the Speech-Language Pathologist and Entry-Level Speech Language Pathologists' Perceptions of Effectiveness of Graduate School Education: A *National Survey.* My passion lies in the school setting, helping students academically and socially. They are the future of this world and I am eager to see them learn and grow. The education I have received from MSUM has been exceptional and I can't wait to continue this by becoming a Speech-Language Pathologist.





John Fitzer MSUM Senior Major: Philosophy and English Literature

I am currently a senior at MSUM pursuing degrees in Philosophy and English Literature. In 2011, I married my wife, Jean, and returned to school shortly thereafter with her encouragement. My decision to pursue degrees in both Philosophy and English Literature is due to my interest in helping produce a better society by promoting more well-reasoned dialogue and better understanding of different perspectives. As the world continues to change at a rapid pace, we will need people to critically think about many of the serious issues that humanity faces. Both of my degree programs provide me with these critical thinking tools. This past semester I presented a paper on metaphysics at a philosophical conference in Columbia, Mo. This semester, I will be presenting a paper at the Student Academic Conference on a philosophical problem known as the Ship of Theseus. On campus, I tutor students in symbolic logic and practical reasoning. I hope to apply all of these experiences to a successful graduate school career while I pursue an advanced degree in philosophy.



Benjamin LeMay

MSUM Senior Major: Physics and Sustainability

Originally from Hugo, Minn., I became interested in studying physics at a young age. I decided to major in physics when the opportunity to gain a meager peek at the underpins of the universe and the physical world around me presented itself. Additionally, I chose to pursue a degree in energy sustainability during my sophomore vear at MSUM to become versed in the problems that will inevitably have to be addressed by future generations. One of the fortunate consequences of studying sustainability is that I wasn't tethered to one individual department and had opportunities to study alongside remarkable students and faculty on a variety of projects. Interdepartmental research such as designing an automated theatre prop and developing a pump control system for a tidepool simulation were crucial tools that aided in bridging the gaps between all disciplines I was studying. I can say without any pangs of conscience that MSUM, with particular consideration regarding the Physics Department faculty, have built a solid academic foundation and instilled a drive in me to continue investigating, questioning and improving the world around me.



Netsai Ngongoni

MSUM Senior Major: Accounting

I am a senior at MSUM pursuing a degree in accounting. I grew up in Zimbabwe and from the time I was in high school I knew my desired career. I spent my time in college developing and focusing on my strengths. In my sophomore year, I took on the challenge of applying for an upper-class apprenticeship. For the past two and a half years, I participated in research with two faculty professors. Last year I completed preliminary research on Measuring Effectiveness of Aid Agencies. My research mentor and I are currently waiting for the opportunity to get our research published. This year, I continue to work with another professor on various accounting related topics. I have acquired a lot of knowledge from this experience. Throughout my college experience, I engaged on campus as a resident assistant, peer advisor, and swimming instructor. I participated as a leader in Students Internationally Together, Campus Crusade for Christ, and the Student Advisory Board for the College of Business. After college, I intend on pursuing a masters in accounting. I aim to use my leadership experience and attained knowledge further on in life as an accountant.



Leandra Zeller

MSUM Senior Major: Communication Studies

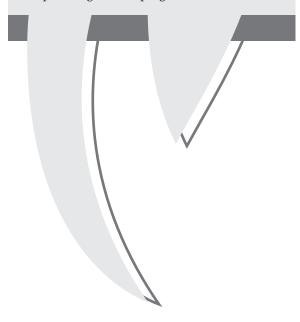
I am currently a senior here at MSUM. My major is Communication Studies and my two minors are Public Relations and Leadership Studies. I grew up in Wahpeton, N.D., which is only 45 minutes south from Fargo. This will be my first time presenting in the Student Academic Conference, I am excited to show the research I've been conducting with my three other group members. Together, we are giving an oral presentation about whether or not the First Year Experience class leads to persistence at MSUM. This is an interesting subject to me, because I never considered leaving MSUM. I've enjoyed my classes, the professors, as well as the students I've done many group projects with. I am also thankful for all the lifelong friends I have met throughout my college experience. MSUM has definitely prepared me for graduation this spring. I love the F-M area and look forward to seeing what my future brings after college.



Graduate Panelists

Student Academic Conference 2016

MSUM has a history of presenting the Dean's Graduate Lecture Series in which graduate students are nominated and undergo a competitive process to be chosen to present their research to the campus community. For the second year, this lecture series has been incorporated into the Student Academic Conference. The featured graduate lecturers will present on the research completed within their respective graduate programs.





Katie Diiro MSUM Graduate Student

Major: Master of Science in Counseling and Student Affairs

My life has been bursting with Dragon Pride as I completed my undergraduate degree in Film Studies: Production from MSUM in 2007. An undergraduate goal of mine was to create an international documentary. With the support of my family and professors at MSUM I traveled to Tanzania, Africa in the summer of 2011 to begin this process. I developed a deep love for African culture, specifically Tanzanian culture. My final project for MSUM utilizes my film degree and graduate degree in Counseling and Student Affairs. The hope is to create research-based programming to assist the Tanzanian people in increased awareness and utilization of mental health. I am extremely grateful for the opportunity to study and grow as a Dragon. It is an honor to study amongst individuals who practice grit, heart, and humility each day.



Alannah Dosh

MSUM Graduate Student Major: Master of Science in School Psychology

I am currently a second year student in the School Psychology graduate program at MSUM. I grew up in Brainerd, Minn., and then I moved to North Dakota for college. I attended the University of Jamestown, earning a Bachelor of Arts degree in psychology, criminal justice, and Spanish. I chose the graduate program at MSUM because of the professors and structure, and I have enjoyed it here ever since. The professors have provided me with multiple opportunities that have furthered my professional and personal life. The program has prepared me for various aspects of school psychology with experiences in three different practicum settings. In addition, I have recently been able to collaborate with area school districts as I developed a video training module, which has led me to present at the state and national school psychology conferences. I will begin my internship in August at a special education cooperative in Valley City, N.D., working with the surrounding rural school districts. I am excited for the challenge of this position and to be closer to beginning my career as a school psychologist.



Carol Roth MSUM Graduate Student Major: Master of Science in Nursing Education

I recently graduated from MSUM and received the Degree of Master of Science in nursing education. The passion I have for nursing and life-long learning has been rooted in the primary practice areas of public health and nursing education. I was able to fulfill a career dream last August when I accepted a nursing faculty position at MSUM in the School of Nursing and Healthcare Leadership. I have served on numerous local community and North Dakota statewide collaborative and special interest groups. I am a member of the Sigma Theta Tau International Honor Society of Nursing. In addition, I enjoy volunteering in the community on projects associated with the adult homeless shelters. Current trends in nursing today have contributed to job dissatisfaction and nurses leaving the profession. As the shortage in nursing and other healthcare professions escalates, retention of a competent workforce is becoming increasingly more important. As a nursing educator, I want to better prepare students for their role as a newly graduated baccalaureate prepared registered nurse. I am honored to present my nursing research at this conference, and a heartfelt thank you to the members of my thesis committee.



Inga Sveen & Emma Van Valkenburg

The Experience of Individuals with Down Syndrome



>By Brittany Kelley

here are more than 6,000 babies born in the United States with Down syndrome annually. This chromosomal condition is present in people of all race and economic level, occurring when an individual is born with extra chromosome 21. With more than 400,000 people living with Down syndrome in the U.S. alone, seniors Inga Sveen and Emma Van Valkenburg (speech language pathology) hope to better educate their audience on how individuals with this disease handle life.

More specifically, the two students are focusing on high school graduates with Down syndrome and their transition to a vocational setting.

To investigate this, a qualitative grounded theory method was used to understand what transition period involves and how speech-language pathologists can aid in the development of this transition period.

The presentation aims to share the experiences of not only the graduates but also their family members and school-based professionals who have worked with them.

"We wanted this study to be beneficial to a variety of people, not just in our profession."

- Inga Sveen

Van Valkenburg and Sveen interviewed guardians and special education professionals to provide data that was then analyzed. The resulting theory may assist all individuals involved in the improvement of this transition period.

"We wanted this study to be beneficial to a variety of people, not just in our profession," explains Sveen. "But we did try to look a little bit closer to the speech pathologist roll in this transition just to see what we can do to better improve it."

Their presentation will cover different perspectives from all of the people who work with individuals with Down syndrome as they enter post-high school life. Nearly 38 percent of Americans know someone with Down syndrome, which is why Van Valkenburg and Sveen want to raise awareness.

A topic that is pertinent to our community, many are unaware of the obstacles that high school graduates with Down syndrome face once completed with high school. Van Valkenburg and Sveen hope their presentation can serve as a sort of roadmap for parents and professionals along this new chapter of life.

"This transition is a huge time in this population's life," explains Van Valkenburg. "Anyone moving from high school to beyond is a huge step, and we want to be able to make it as easy as possible."

Hannah Hoeschen Major: Music Year in School: Senior Hometown: Freeport, Minn.

Listening to Jazz: Understanding the Standards



> By Nate Gilbraith

azz is often hailed as one of America's original art forms. Having originated in New Orleans during the late 10th and early 20th centuries. his music genre, which makes heavy use of improvisation, syncopation and the swing note, quickly became America's favorite.

Throughout the 1900s, many different forms of jazz developed and rapidly started to influence emerging music genres. However, in the recent years jazz has seen a decline in listeners, especially among young adult listeners. Senior Hannah Hoeschen (music) hopes to change that through the education of standard jazz music elements.

"Jazz is very different from any other type of music because it's improvised and being done on the spot," explained Hoeschen. "It's not completely pre-meditated, which is where I think some people get lost."

"Jazz has changed a lot; I don't think it's dead and I don't think it's dying, there just seems to be a lack of education about it. I want to give people a reason to become interested in it."

In her presentation, "Listening to Jazz: Understanding the Standards," Hoeschen aims to give the audience a better understanding of this iconic music genre. Hoeschen will start by playing a standard jazz song and point out distinct jazz elements that makes this genre so unique.

"Jazz has changed a lot; I don't think it's dead and I don't think it's dying, there just seems to be a lack of education about it. I want to give people a reason to become interested in it."

Having come to MSUM with little knowledge of what jazz was, Hoeschen knows what it's like to discover a full appreciation and understanding for jazz. She has continued to study jazz and music for the past four years and wants to share her passion with the rest of the MSUM community.

"I think the audience will be surprised by how easy jazz is to understand, once the basic aspects are understood. Then jazz will open up a whole new listening experience... Learning to listen to jazz opens up new ways to listen too all types of music."

- Hannah Hoeschen



Major: Film Production Year in School: Senior Hometown: Wessington Springs, S.D.

What's So Funny: the complexity of film comedies



> By Trent Zbichorski

hen it comes to watching movies, comedy is often a popular, if not favorite genre for many people. Movies like "Pitch Perfect," "The Hangover," "Ted," and "Deadpool" are just a few favorites that fit the beloved genre. However, there is much more that goes on behind the scenes than what one may think.

Usually when most of us watch comedies, we laugh but don't know the reason behind it. Senior Mindy Kraft (film production) hopes to change that through analyzing and critiquing different types of comedies that are popular today.

"I would actually like to have comedy looked at in a very serious manner. It is a true art form, especially for film, and I would like to show that."

– Mindy Kraft

"I would actually like to have comedy looked at in a very serious manner," explained Kraft. "It is a true art form, especially for film, and I would like to show that."

In her presentation, "What's so funny: the complexity of film comedies," Kraft aims at viewing comedies in a theoretical way, while exploring some of the different categories, such as slapstick, gross-out, and dark comedies.

"It's one of those genres that gets immensely overlooked because of its vagueness, which makes it hard to define," said Kraft. "Comedy can seem like a cheap art form and it needs to be looked at in a more critical way."

As comedy director for her senior capstone project, Kraft has developed an interest in studying comedies and how the films are put together.

"I think the audience will be surprised by how complicated comedies really are," Kraft said. "There's a lot more to it than just making people laugh and a lot more that needs to be discovered about it too."

This will be Kraft's second year presenting at the Student Academic Conference. Last year, she talked about teen movies across the world. This year, she hopes she can teach students about a topic that is familiar to many, but often overlooked.

"It's just one of those genres people take for granted, myself included, so I'm hoping to dive into it a little deeper to show people that comedies are serious business."

Amanda Littrell Year in School: Senior Hometown: Bisr

Year in School: Senior Hometown: Bismarck, N.D.

Art in Education



> By Nate Gilbraith

he push to incorporate science, technology, engineering and math (STEM) in education has been on the rise in recent years. While STEM is unarguably valuable within the education system, many educators are now pushing to add art to the mix, converting STEM to STEAM.

"Moving art into the STEM program is very important for our future," explained Amanda Littrell (elementary inclusive education). "We're moving into a huge technological age, it'd be insane to think that art is not part of that as well. Artists are creators and they are a huge part of how we've gotten so far in technology."

Littrell feels passionate about incorporating art into the education system because she directly benefitted from a choir class in middle school. She gives credit to her teacher for teaching her the importance of being self-aware and expressing herself through music and art.

"A lot of the time, we lose sense of how important art is, it's a great way to express emotions and a great way to learn about yourself. It can provide a very well rounded education."

Throughout her presentation, "Art in Education," Littrell will explore the purpose, the policy and the practice of art for educators. She hopes to raise awareness on how many schools lack the funding to provide students with art courses and how the lack of art in education can hurt a student's success. "I would like for people to take away a better idea of what art in education is. I want them to consider art being just as important as math, science and reading," Littrell said. "Art is just as important as these subjects and if we use them together we'll be able to create an incredible education system that won't be able to fail."

While Littrell sees art being incorporated into more schools in the near future, she feels obligated to do as much in her power to raise awareness toward this effort.

"This whole movement of education is about social justice and having people feel cared about. No matter who you are, no matter where you come from. It's a new wave of education that's coming."

"I would like for people to take away a better idea of what art in education is. I want them to consider art being just as important as math, science and reading."

- Amanda Littrell



Gregory Anderson Major: Life Science Education Year in School: Junior Hometown: West Fargo, ND

K-12 Curriculum Development Using Marine Organisms



> By Trent Zbichorski

any of us have to travel to vacation hotspots just to see unique animals. Places like California, Florida, and Hawaii are home to many different marine organisms that the typical Midwesterner doesn't often see. However, junior Gregory Anderson (life science education) hopes to change this by introducing students to some of the marine organisms that live on campus.

The marine lab in the basement of Hagen Hall contains various marine organisms that can be found in an ocean environment. Anderson hopes his presentation will expose the lab and make students want to regularly visit the organisms.

"The idea is to show off the facility, demonstrate some of the animals, and use them to teach about biology or science concepts in general," explained Anderson.

In his presentation, "K-12 Curriculum Development Using Marine Organisms," Anderson wants to engage students by allowing them to see marine animals without having to travel across the country.

"Students can experience an environment that we don't have around here," Anderson said. "It's something that's thousands of miles away and has some completely different types of organisms that aren't around here."

After attending North Dakota State University with the intent to major in engineering, Anderson found out about the lab last year and developed a passion for science and teaching others about organisms.

"Last winter, I ran into my friend Phil here, and he showed me the lab and I completely fell in love," Anderson said. "It made me realize that I definitely want to work with this."

Anderson hopes he can bring in some of the animals to show off to students at his presentation. After transferring from NDSU last year, he wants to share his love for science with students at MSUM.

"I hope that they like seeing these different animals. I think that the creatures sell themselves and it's up to us to tact on these scientific concepts."

"Students can experience an environment that we don't have around here. It's something that's thousands of miles away and has some completely different types of organisms that aren't around here."

Brianna Bradley & Chloe Dougan

Contemporary Pop Culture and How it Intersects with the American Culture



>By Brittany Kelley

S lang is a type of language that consists of words and phrases regarded as very informal, typically restricted to a particular context or group of people. Words such as "savage" and "roll-herd" are quickly gaining popularity without the understanding of the true definitions. When used incorrectly, slang cannot only come off as uneducated but also offensive.

While attending the Power and Diversity Conference at St. Cloud State University, junior Brianna Bradley (music industry) and sophomore Chloe Dougan (anthropology) sat in on a presentation covering Native Americans and their representation in Hollywood and media. It was from there the two MSUM students drew inspiration to further the research on the topic, spinning it into how Native Americans are represented in media today.

Bradley and Dougan are Native Americans who find it problematic that mainstream society does not educate individuals on the culture of their ethnicity.

"I grew up on a reservation, and attending MSUM has been a bit of a culture-shock in a way that not everyone has gotten the same education about Native Americans that I did," explained Bradley.

In their presentation, Bradley and Dougan hope to educate the public on the true definitions of certain slang words and how they affect people around them. Native American culture is overlooked, and slang words such as savage are used without understanding the connection to the culture.

"I am Native American and I grew up in a city. Any knowledge that I wanted to seek about my culture is from history books. I know firsthand that the majority of people around us are not educated on my culture and my history," said Dougan. "Moving to Moorhead, I joined a sorority where the word 'savage' became popular. I had to explain the context behind it, and explain how it is a hurtful word so people around me can make stronger word choices."

Their presentation, "Contemporary Pop Culture and How it Intersects with the American Culture," will be handled in a quirky manner. Bradley and Dougan want the audience to feel as if they are talking to a friend on a prominent subject rather than being talked at.

"We want people to resist mainstream society," said Dougan. "We want people to resist problematic concepts that they don't understand."

"We want people to resist mainstream society. We want people to resist problematic concepts that they don't understand."

- Chloe Dougan

PRESENTATION LISTINGS

ACCOUNTING

Austin Robischon Lehman Brothers Advisor: Sheri Erickson

Mathew Breitbarth Downturn of WorldCom Advisor: Sheri Erickson

Morgan Ellis *HealthSouth Fraud* Advisor: Sheri Erickson

Jennifer Brooks Schrum A Case of Fraud - Bernie Madoff Advisor: Sheri Erickson

Tenzin Sherpa *The Enron Scandal* Advisor: Sheri Erickson

Sherry Carlsrud *Qwest Accounting Scandal* Advisor: Sheri Erickson

Morgan Ellis *ExxonMobil* Advisor: Mohamed Elbannan,

Sherry Carlsrud *The Walt Disney Company and Financial Statement Analysis* Advisor: Mohamed Elbannan

Aimee Mazoyo A Financial Statement Analysis of Kellogg Company Advisor: Mohamed Elbannan

AMERICAN INDIAN RESEARCH AND RESOURCE CENTER

Brianna Bradley and Chloe Dougan Contemporary Pop Culture and How it Intersects with Native American Culture Advisor: JoLynn Steile

ANTHROPOLOGY AND EARTH SCIENCE

Bret Salter Animacy in Meskwaki: A Preliminary Look Advisor: Erik Gooding

Lee Smalt and Jesus Romero Lopez *GIS Applications in Anthropology* Advisors: Erik Gooding, Kirk Stueve and Paul Sando

Beatrice Franke *The Thunderbird in Native Art of Minnesota and North Dakota* Advisor: George Holley

Carlie Peterson, Langley Bradley and Taylor Ness 2015 MSUM Archaeological Investigations at Chief Looking's Village Advisor: Rinita Dalan

Gary George and Derek Sakrison Environmental and Agricultural Implications of Subsurface Drainage in Clay County, MN Advisor: Paul Sando

Amanda Cameron *Kava: A Drink of Death* Advisor: Bruce Roberts

Katelyn Dussik *Equine Therapy* Advisor: Bruce Roberts

Chloe Dougan Adornments: How Two Wars can be Represented in a Single Button Advisor: George Holley

ASTRONOMY

Laura Maixner Automating Photometry with Python Advisor: Matthew Craig

ATHLETICS

Sydney Klein and Zayne Medhaug *Take a Knee* Advisor: Wendy Frappier

BIOSCIENCES

Jaime Kallstrom and Scott Buchholz Urban Canada Geese in Moorhead, Minnesota: What Do We Know After Six Years of Population Control? Advisor: Donna Stockrahm

Jessica Lindstrom, Annika Bordak and Elisabeth Teige

Starting an LCCMR Prairie Restoration Grant: Monitoring of Small Mammals Advisor: Donna Stockrahm

Jessica Lindstrom, Scott Buchholz, Sarah Sanderson, Jessica Loeffler, Elisabeth Teige, Eberardo Barragan, Jordan White and Marissa Reeves

Monitoring Painted Turtle Movements in Clay County, Minnesota, with a New Style of Trap Advisor: Donna Stockrahm

Marissa Reeves and Stacy Peterson Elucidating local bee species diversity using DNA barcoding in Clay County Advisors: Sara Anderson and Rebecca Andres

Vincent Anani, Gabriel Pankonin, Jacob Humphrey and Bennen Bierman

The Role of mi-RNA and Homocysteine Regulation in Hypoplastic Left Heart Syndrome Advisor: Adam Stocker

Vincent Anani and Nancy Castro Borjas

From Golf Course to Prairie: initial assessment of local microbiomes in restoration areas Advisor: Sara Anderson

Eberardo Barragan

Use of Game Cameras to Document Urban Carnivore Species in Fargo-Moorhead City Parks Advisor: Donna Stockrahm Sarah Martinson and Christopher Flores Photosynthesis: A 5-E Model Science Lesson Advisor: Alison Wallace

Emily O'Meara and Amanda Murphy

The Science of the Atom: a 5-E Model Lesson Advisor: Alison Wallace

Jillian Fox

How Plants Reproduce: a 5-E Model Lesson for Middle School Students Advisor: Alison Wallace

Evangeline Holley and Matthew Geister-Jones

Phase Changes: A 5-E Model Science Lesson for 6th Graders Advisor: Alison Wallace

Wyatt Pugh and Madison Geiser

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