

CELEBRATION OF SCHOLARS



NORTHWEST
MISSOURI STATE UNIVERSITY

Spring 2025

Welcome to Celebration of Scholars, an annual celebration of all of the amazing scholarly work being done by Northwest Missouri State University students. Below you will find a list of all of the exhibits and presentations at the event along with information on the students who created them and the faculty who sponsored them.

Exhibits:

- **Assessing Surface Interactions Between AlphaFour and Molecular Scaffolds** by Kiersten Buck sponsored by Dr. Gretchen Thornsberry
- **"Biggest Barrier is Access": Challenges in Mental Health Resources for Youths in Rural Areas** by Genevieve Plum sponsored by Dr. Amy Hillard
- **Carassius spp Respiration Rate Under Various Conditions** by Emmie Smyly, Andrea Mengel, Allyssa Sicks, and Lola Morales sponsored by Dr. Peter Adam
- **Difference in Box Breathing and Resonant Breathing and Their Effects on Heart Rate in College** by Saige Eaton, Emily Harper, Tony Rask, and Izzy Milligan sponsored by Dr. Peter Adam
- **Early Development of Sea Urchins and the Effect of Toxins** by Teagan Berger and Sienna Fowler sponsored by Dr. Peter Adam
- **Effect of Body Size on Respiration Rate in Fish** by Josh Borst, Henry Ritter, Joe Dundee, and Lucas Johnson sponsored by Dr. Peter Adam
- **Effect of Storage Temperature and Duration on Color and Odor Deterioration of Direct Acidified Pork Sausages Formulated with Preconverted Beet and Cherry Powder** by Sydney Bentz sponsored by Dr. Jacob Tuell
- **Effective Temperature of the Growth Rate of Echinoderms** by Braden Clark, Mikayla Austin, Jacob Buckholz and Bladen Perry sponsored by Dr. Peter Adam
- **Effects of Caffeine on Heart Rate in Casper Zebrafish *Danio rerio*** by Emma Huettner, Kayla Williams, Maya Ridle, and Andrea Peralta sponsored by Dr. Peter Adam
- **Embryo Development of Echinoderms Under the Presence of a Toxin** by Teagan Berger and Sienna Fowler sponsored by Dr. Peter Adam
- **Empowering Independence Support For Individuals With Disabilities** by Jaqueline Perez sponsored by Dr. Rhonda Beemer
- **Exploration of the Art Therapy Field** by Hannah Nielson sponsored by Dr. Keely Cline
- **Exploring the Role of Art in Mental Health Awareness and Expression A Qualitative Coding Analysis Across College and K Students** by Gursheen Sood, Sada Irving, Alyssa Cage, Martina Guerra, and Tobias Cervantas sponsored by Dr. Amy Barton
- **Fresh Track App Food Expiration Monitoring and Management** by Anushka Uppula and Roshini Naguru sponsored by Dr. Ratan Lal
- **Formal Verification of Fog Computing Systems Using Uppaal** by Vasanth Kumar Palla sponsored by Dr. Ratan Lal
- **Genome Sequencing and Comparative Analysis of *Sphingopyxis* SP. ZL10 and *Sphingopyxis Alaskensis* Using Bioinformatics Approaches** by Angela Lopez sponsored by Dr. Alisha Campbell
- **Heart Health Challenge for Cardiovascular Health Awareness** by Aleah Jakobe sponsored by Dr. Rhonda Beemer
- **How Heart Rate is Affected by Breathing Patterns** by Kierstyn Jakub and Teonna Williams sponsored by Dr. Peter Adam
- **How Heart Rate is Affected by Increasing Word Count vs Word Length Using Memory Recall** by Hailee Williams, Allie McClenney, Kyle Cerven, and Isaiah McKenzie sponsored by Dr. Peter Adam
- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with an SLD in Math Calculations and Math Reasoning** by Lucy Chu, Lauren Malone, and Lilly Prendergast sponsored by Dr. Shantel Farnan and Dr. Tamara Lynn

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Exhibits:

All exhibits will be displayed in the Ballroom during the event. Stop by each one to talk to the students and learn more about their work and what they learned from the experience and research.

- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with Autism** by Emma Mundorf, Emily Quinn, and Danielle Crawford sponsored by Dr. Shantel Farnan and Dr. Tamara Lynn
- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with Emotional Disturbances** by Emma Peterson, Riley Biggie, and Maggie Graham sponsored by Dr. Shantel Farnan and Dr. Tamara Lynn
- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with Specific Learning Disability SLD Reading Basic Skills Fluency** by Sloane McAdams, Marha Steffens, and Katie Carroll sponsored by Dr. Shantel Farnan and Dr. Tamara Lynn
- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with Intellectual Disabilities** by Samantha Ryals, Meagan Moreland, and Peyton Quinlin by Dr. Shantel Farnan and Dr. Tamara Lynn
- **Implementing Techniques and Strategies of Evaluation Instruction and Behavior in Special Education for Students with SLD Reading Comprehension** by Dilynn Jones, Cora Schweitzer, and Allison Schultz sponsored by Dr. Shantel Farnan and Dr. Tamara Lynn
- **Is the Human Dive Response Specific to What Body Part is Submerged** by Audrey Rowe, Caden Conrick, Haley Luna, and Luisa Vargas Chisabas sponsored by Dr. Peter Adam
- **Isopod Life Stage Metabolic Rates at Different Temperatures** by Ash Bollhoefer, Li Eads, and Tessa Parris sponsored by Dr. Peter Adam
- **Metabolic Rate in Homeotherms vs Poikilotherms** by Elexys Peoples and Delaney Young sponsored by Dr. Peter Adam
- **Peppa Pig** by Lonee French, Emily McMurray, Josie Morgan, Azure Radford, Robert Shanks, and Shaviyah Sese sponsored by Dr. Jennifer Wall
- **Real Time Trend Identification in Social Media with Map Reduce and Big Data Technologies** by Sri Sowmya Polampalli and Nikitha Sri Garapati sponsored by Dr. Isam Alobaidi
- **Reconstructed Equator to Pole Temperature Gradients vs Global Climate Models for Recent Global Hothouse Conditions During the Cenozoic and Mesozoic** by Callie Clopp sponsored by Dr. Arghya Goswami
- **The Effect of Cognitive Interference and Facilitation in the Stroop Task** by Shirrymar Stallard, Josephine Payne, Zachary McGrew, and Luis Hidalgo Kon sponsored by Dr. Peter Adam
- **The Effect of Glyphosate on Brine Shrimp Embryological Development** by Jenna Moore, Lauren Pacer, and Lilian Holmes sponsored by Dr. Peter Adam
- **The Effect of Temperature on Fish Respiration** by Zachary Ringo, Trenton Hilty, Allison Coffey, and Morgan Potts sponsored by Dr. Peter Adam
- **The Effects of Temperature on the Heart Rate of A Water Flea** by Hayley Beaver and Max Kneib sponsored by Dr. Peter Adam
- **The Musical Effects on Production and Companion Animals** by Austyn Fisher sponsored by Dr. Peter Adam
- **The Role of Unconscious Stimuli on Working Memory** by Tarah Jackson, Gursheen Sood, Lauren Gillig, and Kinzey Meyer sponsored by Dr. Amy Barton
- **The Study of Plank Exercise on Heart Rate** by Drew Belden, Karlee Fletcher, Jacey Moore, and Grant Frawley sponsored by Dr. Peter Adam
- **Vertical Jump Performance And Differences Between College Dancers** by Madison Marsh and Austyn Payton sponsored by Dr. Tina Pulley

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Presentations

	Meeting Room A	Meeting Room B
2 - 2:15 PM	Precipitation Quest Game by Chiranjeevi Ankaiah and Kat Karmen sponsored by Dr. Aziz Fella and Dr. Michael Bellamy	Semantic Analysis of AIs Societal Impact by Rithikareddy Komatireddy and Nikileshreddy Sargari sponsored by Dr. Cindy Tu
2:15 - 2:30 PM		Chatbot for Conversational Interaction with PDF and Audio Email Attachments by Ashish KC, Anil Panday, and Rojina Raut sponsored by Dr. Mark Chai
2:30 - 2:45 PM	Fresh Track App Food Expiration Monitoring and Management by Anushka Uppula and Roshini Naguru sponsored by Dr. Ratan Lal	The Effect of Caffeine Levels on the Heart Rate if Daphnia by Harrison Merriman and Dominic Personelli sponsored by Dr. Peter Adam
2:45 - 3 PM	YouTube Trend Optimizer by Sai Swetha Bodlapati and Akshitha Katyaini Reddy Akkireddy sponsored by Dr. Isam Alobaidi	Effect of Toxins on Embryonic Development of <i>Strongylocentrotus Droebachiensis</i> by Nathan Gilner and Audrey Roberts sponsored by Dr. Peter Adam
3 - 3:15 PM	Various Forms of Rhetoric Used by Politicians and How They are Received by the Public by Andrew Strunc sponsored by Dr. Jessica Gracey	HIV Medication and Patient Education by Lillian Hansen sponsored by Dr. Rhonda Beemer
3:15 - 3:30 PM	The Role of Unconscious Stimuli on Working Memory by Tarah Jackson, Lauren Gillig, and Kinzey Meyer sponsored by Dr. Amy Barton	Redox Protect the World by Venkatalahari Ravipati and Kat Karmen sponsored by Dr. Aziz Fella and Dr. Michael Bellamy

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	Meeting Room A	Meeting Room B
3:30 - 3:45 PM	Wellness Pregnancy Resources by Emerson Henry sponsored by Dr. Rhonda Beemer	
3:45 - 4 PM	We're Not Playing Around Games Can Grow Mathematical Thinking by Emily Farris sponsored by Brian Swink	Formal Verification of Fog Computing Systems Using Uppaal by Vasanth Kumar Palla sponsored by Dr. Ratan Lal
4 - 4:15 PM	Frontier Justice The Theme of Vengeance in the American West by Abigail Vajgrt sponsored by Dr. Robert Voss	Enhancing Adjunct Faculty Performance Prediction by Applying SMOTE Techniques by Sreeyuth Chowdary Gunnam and Noshitha Reddy Gudhibandi sponsored by Dr. Yu Zhao
4:15 - 4:30 PM	Threads of Revolution Watts to Minneapolis by Abigail Vajgrt sponsored by Dr. Dana Ternus	Data Driven Analysis of User Sentiments and App Success on Google Play Store Using Machine Learning Techniques by Govardhan Konduru and Sai Swetha Bodlapati sponsored by Dr. Cindy Tu

Other Exhibits:

Meeting Room E: Artemisia Gentileschi's Life and Paintings by MaryJane Pitthan sponsored by Dr. Karen Britt