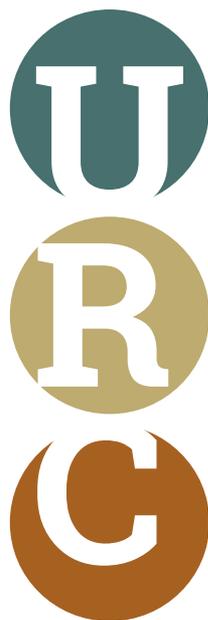


17th Annual
**Undergraduate
Research
Conference**
Southwest Minnesota State University

**WEDNESDAY,
NOV. 30, 2022**

**SMSU Conference Center
Conference Begins at 8:30 a.m.**

PROGRAM



**17th Annual Undergraduate Research Conference
at Southwest Minnesota State University**

WELCOME AND KEYNOTE

Zoom Link: <https://minnstate.zoom.us/j/98549449437>

Password: URC2022

8:30.....Dr. Kumara Jayasuria, SMSU President, Opening Remarks

8:40.....Dr. Justin Zajic, EdD, Chamberlain School District
Superintendent, Chamberlain, SD, Keynote Address:
Opportunity Knocks; When is it Going to Be Your Turn?

ORAL SESSION

Upper Level SMSU Conference Center & via Zoom

Zoom Link: <https://minnstate.zoom.us/j/98549449437>

Password: URC2022

*Biology, Computer Science, Environmental Science,
Justice Administration, Management, Theatre*

9:45.....Katelynn Urness, Environmental Science, Analysis of
Microplastics in Sea Salts from Various Countries

10:00.....Noah Pankonin, Environmental Science, Assessing Plant
Diversity and Soil Respiration in a Natural and a Restored
Prairie

10:15.....Hailey Caron, Environmental Science, Water Quality
Assessment of Lake Shetek and Lake Sarah in Southwest
Minnesota

10:30.....Regan Truedson, Environmental Science, Species Diversity
Comparison between Two Tributaries of the Cottonwood River
in Southwest Minnesota

10:45.....BREAK

11:00.....Alyssa Enevold, Environmental Science, Correlating
Macroinvertebrates to Water Quality in the Minnesota River
Mankato Watershed

11:15.....MacKenzie Klett, Environmental Science, Winter Wind Erosion
of Soil Off Farm Fields in Southwest Minnesota

11:30.....Iyke Yeboah, Management, Assessing The Interpersonal
Competence Of Southwest Minnesota State University (SMSU)
Students

- 11:45.....Adam Barka, Management, Managing Ethical and Social Responsibility Challenges in a Multinational Labor Force
- 12:00-1:00....LUNCH BREAK
- 1:00.....Jasper Ale, Theatre, Theatrical In-Depth Research on the Seconds Shepherds Play
- 1:15.....Alexander Duus, Theatre, A Dramaturgical Study of Doctor Faustus by Christopher Marlowe
- 1:30.....Nijie Nauden & Lileya Kebos, Biology, Impact of the Insecticide Permethrin on Behavior, Growth, and Survival oo Coccinellidae
- 1:45.....Katelyn Schauer, Environmental Science, Water Quality Assessment of Cottonwood Lake Southwest Minnesota
- 2:00.....Mason Johnson & Blessing Ogbonna, Biology, Where We Share with Insects
- 2:15.....Katelynn Urness, MacKenzie Klett, & Alyssa Enevold, Biology, Survey of Insect Pollinator Diversity in the SMSU Prairie and Pollinator Plots
- 2:30.....BREAK
- 2:45.....Bityana Yishak, Computer Science, Chrome Extension
- 3:00.....Molly Green, Theatre, A Dramaturgical Study of Shakespeare's A Midsummer Night's Dream
- 3:15.....Colton Jensen, Theatre, Commedia Dell'arte and The Deceived Ones
- 3:30.....Tailer Benson, Theatre, A Deep Dive into "The Scottish Play"
- 3:45.....Brady Berg, Theatre, William Shakespeare's The Taming of The Shrew: Story Origins and Historical Contexts

MID-MORNING VIRTUAL SESSION

VIA ZOOM - 10:00 - 11:45AM

Zoom Link: <https://minnstate.zoom.us/j/91568192105>

Password: URC2022

Room Moderators: Kaitlyn Giles & Prof. Sheila Tabaka
Sociology, Theatre

- 10:00.....Kody Moore, Sociology, Why Believing in Alien Life is Deviant
- 10:15.....Andrew Scheiber, Theatre, Lysistrata: A Dramaturgical Analysis
- 10:30.....Andrew Ryan, Theatre, Medea
- 10:45.....Emma Stringer, Theatre, Sound Editing and Design
- 11:00.....Christian Tesch, Theatre, The Mandrake
- 11:15.....Shawn Bollinger, Theatre, The Merchant Of Venice
- 11:30.....Zachary Thompson, Theatre, Dramaturgical Project on Post-Apocalyptic Hamlet

VIA ZOOM - 10:00 - 11:45AM

Zoom Link: <https://minnstate.zoom.us/j/99826391136>

Password: URC2022

Room Moderators: Matt Suby & Dr. Ben Walker
Psychology, Communication Studies

- 10:00.....Pamela Crislip & Anna Stroh, Psychology, How Has COVID Affected People's Orientation of Time
- 10:15.....Katelyn Nichols, Communication Studies, How Argumentative are SMSU Volleyball Players when the Result of a Play is in Question?
- 10:30.....Samuel Lund, Communication Studies, Argumentativeness for Grading Disputes
- 10:45.....Shantel Quaintance, Communication Studies, Argumentation in LGBTQ+ Community Regarding Stereotyping in Social Media Platforms
- 11:00.....Jim Radloff, Communication Studies, Education Department Students' Comfort Level Discussing Politics and Religion
- 11:15.....Anna Reiner & Yesenia Gomez Ciriaco, Communication Studies, How Students Living on Campus Deal with Arguments that Arise

EARLY AFTERNOON VIRTUAL SESSION

VIA ZOOM - 1:00 - 2:30PM

Zoom Link: <https://minnstate.zoom.us/j/93320582609>

Password: URC2022

Room Moderators: Kaitlyn Giles & Dr. Sang Jung

Agribusiness Management

- 1:00.....Isaac Nett, Agribusiness Management, China's Agricultural Economic Boom
- 1:15.....Hope Hicks & Luke Grannes, Agribusiness Management, Agricultural Economic Development in Mexico
- 1:30.....Ruby Radunz & Emily Ratajczak, Agribusiness Management, Agricultural Economic Development in Peru and Venezuela
- 1:45.....Gina Huhnerkoch & Stephanie Eisenbraun, Agribusiness Management, Agricultural Economic Development in the Dominican Republic
- 2:00.....Tallin Johnson, Agribusiness Management, Agricultural Economic Development in Peru
- 2:15.....Brayden Tofteland, Agribusiness Management, Agri-Economic Development of Kenya

LATE AFTERNOON VIRTUAL SESSION

VIA ZOOM - 2:45 - 4:00PM

Zoom Link: <https://minnstate.zoom.us/j/93320582609>

Password: URC2022

Room Moderators: Dr. Sang Jung & Melissa Scholten

Agribusiness Management, Communication Studies, Sociology, Theatre

- 2:45.....Jack Hanson, Agribusiness Management, The Impact of Agriculture in Brazil
- 3:00.....Kenzie Christensen, Communication Studies, First Years Verbal Aggressiveness Online
- 3:15.....Cassidy Hoffmann & Ashley Trongard, Agribusiness Management, Agricultural Economic Development Issues in the Republic
- 3:30.....Tracy Munsterman, Sociology, COVID-19, School Closures, and the Effect on Students
- 3:45.....Cole Race, Communication Studies, To What Extend do Sports Fans Tolerate Arguments with Others?

STUDENT RECITALS

Fine Arts Theatre
1:00 - 1:50PM

Harrison Rigenhagen-Risch, Music: The Sound of a Snare

Daniel Junker, Music: Songs of Travel: How Music Tells a Story

Sydney Diebold, Music: Compositional and Technical Comparisons of
Traditional and Novelty Snare Drum Literature

Cheyenne Volk, Music: The Compositional Devices used in "A Walk Through
the Forest" by Cheyenne Volk

POSTER SESSION

Lower Level of the SMSU Conference Center

Posters displayed 8:30AM - 4:30PM

*Biology, Communication Studies, Computer Science, English,
Environmental Science, Exercise Science, History,
Hospitality Management, Management Mathematics, Music,
Philosophy, Political Science, Psychology, Sociology, Spanish*

- 1.....Mason Johnson, Biology, HLA Manipulation by Breast Cancer
Leads to Increased Immune Evasiveness, 9:45-11:15
- 2.....Emma Polchow, Biology, The Effect of Fatty Acids on
Rheumatoid Arthritis, 10:30-12:00
- 3.....Morgan Hughes, Biology, The Role of Interleukin-6 and
Interleukin-8 in Post-Operative Delirium, 10:30-12:00
- 4.....Addison Schroeder, Claudia Lensing, & Trent Paulsen,
Biology, Interspecific Competition between Duckweed
(*Lemna minor*) and Algae in a Simulated Eutrophic
Environment, 10:30-12:00
- 5.....Addison Schroeder, Biology, Methylmercury Bioaccumulation
in Marine Mammals and Neurotoxic Effects on Indigenous
Peoples in the Canadian Arctic, 1:00-2:30
- 6.....Morgan Hughes, Kaaryna Smidel, & Franky Sesay, Biology,
Plant Diversity in Vegetative Plots on Southwest Minnesota
State University's Campus, 1:00-2:30

- 7.....Brandon Medina, Biology, Optimizing Carnivorous Plant Growth for Increase Plumbagin Production, 1:00-2:30
- 8.....Brandon Medina, Lileya Kebos, & Madison Foutz, Biology, Effects of Imidacloprid on Germination Rate and Biomass Between Monocots and Dicots, 2:30-4:00
- 9.....Regan Truedson, Biology, Using Pheromones as a Control for Sea Lamprey Population, 2:30-4:00
- 10.....Zachary Stute, Communication Studies, Tolerance for Disagreement Among SMSU Faculty, 9:45-11:15
- 11.....Sebastian Flores, Communication Studies, Tolerance for Disagreement in Minorities, 9:45-11:15
- 12.....Cassy Herding, Communication Studies, Comparing Levels of Argumentativeness Between SMSU Communication and Justice Administration Majors, 9:45-11:15
- 13.....Amanda Meyer, Communication Studies, Argumentativeness of Undergraduate Education Majors at SMSU, 10:30-12:00
- 14.....Tailer Benson, Communication Studies, The LGBTQ+ Community in Small Towns, 1:00-2:30
- 15.....Devyn Halvorson, Communication Studies, The Sexualization of Women in Political Positions, 1:00-2:30
- 16.....Kharmen Saysirisanh & Jennifer Aguilar, Communication Studies, Comparing Argumentative Levels of Abortion on Social Media with SMSU Students, 2:30-4:00
- 17.....Raymond Leonard & Jacob Myers, Communication Studies, How do Undergraduate Students who Work in the Food Industry Feel when Arguing with Each Other? 2:30-4:00
- 18.....Jessica Boafoh, Communication Studies, To What Extent does Social Media have Effect on College Students, 2:30-4:00
- 19.....Tesfa Desta, Computer Science. Interactive Chatbot for IT Support, 9:45-11:15
- 20.....Nick Polfliet, Computer Science, Performing Business Processes using Robotics, 9:45-11:15
- 21.....Doran Samples, Computer Science, FitHelp Application with Tkinter, 10:30-12:00

- 22.....Ridip Prajapati, Computer Science, D'Square Cafe (Webpage), 1:00-2:30
- 23.....Deepak Sharma, Computer Science, Creating an Online Website for Restaurant, 1:00-2:30
- 24.....Ansar Kassim, Computer Science, Project Management Ticketing System, 1:00-2:30
- 25.....Patrick Cassidy, Computer Science, Table Tennis in VR, 2:30-4:00
- 26.....Natalia Mila Florez, English, What is Technical Writing? What Does a Technical Writer do in the Workfield? 9:45-11:15
- 27.....Trent Paulsen & Natalie Jorschumb, Environmental Science, Analyzing Bird Deaths Relating to Window Strikes on the SMSU Campus, 9:45-11:15
- 28.....Noah Pankonin, Environmental Science, Effects of Salinity on Germination and Biomass Production of Prairie Cordgrass and American Slough Grass, 1:00-2:30
- 29..... Candace Thomas, Environmental Science, Measurement and Analysis of Key Water Quality Parameters in the Redwood River near Marshall, MN, 2:30-4:00
- 30.....Rachel Fink, Alisa Bengen, Morgan Hughes & Madi Heiderscheidt, Environmental Science, The Effects of Salinity on the Germination of *Panicum virgatum*, 2:30-4:00
- 31.....Evan Oetter & Onte Burns, Exercise Science, Effects of in Season Training on Agility and Physiological Variables in Collegiate Division II Football Players in Different Positions, 9:45-11:15
- 32.....Zachary Stute, History, The City, the Cooperative, and the Company: A Fight for Power, 10:30-12:00
- 33.....Nathaniel Morrow, Sawad Sani & Cordell Plass, Hospitality Management, Acceptance of Self-Service Technology in the Hotel Industry, 2:30-4:00
- 34.....Ebuka Aniebonam, Management, Leadership Styles: A Review of Literature on Transformational and Transactional Leadership Styles, 10:30-12:00
- 35.....Tayyaba Rehman, Management, The Impact of Leadership Competency on Project Success with the Moderating Role of Role Conflict: A Study based on the Telecom Industry of Pakistan, 1:00-2:30

- 36.....Annika Freiburger, Management, The Effects of Destructive Management on Organizational Performance, 1:00-2:30
- 37.....Esther Oluborode, Management, Gender Differences in Leadership Styles, 2:30-4:00
- 38.....Biruk Ayalew, Math, Cryptography: The Mathematics Behind RSA Public Key Cryptosystem, 1:00-2:30
- 39.....Omar Abouel Maaty, Math, Using Graph Theory to Analyze University Course Scheduling, 1:00-2:30
- 40.....Levi Hedman, Math, Modeling, Analyzing, and Animating the Nonlinear Damped Pendulum, 2:30-4:00
- 41.....Cheyenne Volk, Music, The Compositional Devices used in “A Walk Through the Forest” by Cheyenne Volk, 9:45-11:15
- 42.....Daniel Junker, Music, Songs of Travel: How Music tells a Story, 9:45-11:15
- 43.....Sydney Diebold, Music, Compositional and Technical Comparisons of Traditional and Novelty Snare Drum Literature, 9:45-11:15
- 44.....Harrison Rigenhagen-Risch, Music, The Sound of a Snare, 10:30-12:00
- 45.....Jessica Stai, Philosophy, Why a Woman’s Perspective is Beneficial to Ethics? 9:45-11:15
- 46.....Terry Van Note, Philosophy, Would it be Ethical to let a Child be Born and Raised in Space? 10:30-12:00
- 47.....Shealyn Tom, Philosophy, Is Lying ever Morally Permissible? If so, When? Why? 10:30-12:00
- 48.....Braeden Kluver, Philosophy, Ethics of Armageddon, 2:30-4:00
- 49.....Evan Schotzko, Philosophy, Is Contemplation Central to Happiness? 2:30-4:00
- 50.....Troy Nelson, Political Science, Financial Oversight Challenges with Minnesota’s Community Residential Service Programs, 10:30-12:00
- 51.....Emily Vos, Emily Kern, Kaia Jordahl, & Sabrina Condelli Psychology, Is Perception Perfection? Task Complexity and Perceived Time, A Prospective Design, 1:00-2:30

- 52.....Courtenay Leonard & Deborah Leier, Psychology, The Effect of Dynamic Visual Noise on Spatial Imagery, Size Perception and Recognition Memory, 1:00-2:30
- 53.....Matthew Maloney & Allison Quarrella, Psychology, Time Perception During COVID-19: An Examination of How Ego- and Time-Moving Perspectives Have Affected the Perception of Time During and after the COVID-19 Pandemic Quarantine, 2:30-4:00
- 54.....Emily Skluzacek, Anna Clark, Jessica Stai, & Katherine Holcomb, Psychology, Effects of Observing Facial Expressions on Time Perception, 2:30-4:00
- 55.....Emily Vos, Psychology and Sociology, Is Alcohol a Deal-Breaker? Alcohol as a Valued Factor in Romantic Relationship Formation, 2:30-4:00
- 56.....Nye Becker, Spanish, Agricultural Economic Development in Argentina, 1:00-2:30

CLOSING SESSION & LIBRARY RESEARCH AWARD ANNOUNCEMENT

Upper Level SMSU Conference Center & Zoom

Zoom Link: <https://minnstate.zoom.us/j/98549449437>

Password: URC2022

- 4:15.....Closing Remarks and presentation of Library Research Award



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For more information contact conference coordinators:
Dr. Alyssa Anderson (Alyssa.Anderson@SMSU.edu) or
Dr. Thomas Dilley (Tom.Dilley@SMSU.edu)
SMSU Science Program, 1501 State Street, Marshall MN 56258

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