

SVSU STUDENT SHOWCASE

Friday, April 22, 2022

Welcome

Malcolm Field Theatre

1:00pm -1:15 pm

Posters

Curtiss Hall, Groening Commons

1:15 pm – 3:00 pm

- 1. *Using Pollen Ratios as Indicators of Precipitation in the Eastern Deciduous Forests of North America***
Haley Mueller
Faculty Mentor: Dr. Julie Commerford, Geography
- 2. *Using UAV Imagery to Examine the Spread of the Invasive Phragmites australis in the Crow Island State Game Area in Saginaw, Michigan, USA***
Charlotte Schulz
Faculty Mentor: Dr. Rhett Mohler, Geography
- 3. *Using Drone Imagery of Leaf Phenology to Identify Tree Species***
Colton Bragg
Mentors: Dr. Rhett Mohler, Geography
- 4. *Analyzing the Distribution of Native and Invasive Phragmites in the Shiawassee National Wildlife Refuge t***
Sydney Gainforth
Faculty Mentors: Dr. Rhett Mohler, Geography
- 5. *Object-Based Classification of Muskrat Mounds in the Shiawassee National Wildlife Refuge***
Brendon Shotwell
Mentor: Dr. Rhett Mohler, Geography
- 6. *Embrace Subjectivity: Teaching an Existentially-Informed Clinical Psychology***
Olivia Nelson, Makiya Tunstull, Brianna Vanderstelt
Mentor: Dr. Travis Pashak, Psychology Dr. David Nichols and Dr. James Hitt, Psychology
- 7. *Too Busy and Couldn't Care Less: Emerging Profile of Insufficient Effort Responders in the U.S.***
Laura A Shearer, Laurina A. Mandeville, Tyler J. Saez
Faculty Mentor: Dr. Ranjana Dutta, Psychology
- 8. *Determinants of Staying in College: How students work, feel about coursework, overcome obstacles, and change majors***
Alexandra Hanson, Sarah Mikoleizik, Alexandra Hanson, Jaime Modrzynski, Emma Urbaniak, Masey Seals, Julia Lange
Faculty Mentor: Dr. Joseph Weaver, Psychology

- 9. Law Club - Expanding Legal Exploration Beyond the State of Michigan**
Catherine Shuler, Harley Mordarski
Faculty Mentor: Dr. Julie Keil, Political Science
- 10. Gender and Hate Language: A Linguistic Perspective**
Sydney Campbell
Faculty Mentor: Dr. Veronika Drake, English
- 11. Technologizing the SVSU Writing Center**
Amelia Corne, Samantha Allen, Garrett Lewis, Brianna Jamison
Bill De Herder, Writing Center
- 12. Nursing student's perceptions of their quality of therapeutic communication**
Abigail Lange
Faculty Mentor: Dr. Elizabeth Roe, Nursing
- 13. Midland County Community Health Needs Assessment**
Alexis Jones
Faculty Mentor: Dr. Becca Schlaff, Dr. Meghan Baruth, Health Science
- 14. Effects of a supervised neuromuscular training program performed on a novel foam surface on performance- and injury risk- related outcomes among recreational runners**
Katie Nixon
Faculty Mentor: Dr. Merrick Lincoln, PT, DPT, CSCS, Kinesiology
- 15. Microplastics and Phagocytosis in a Model Unicellular Ciliate, *Tetrahymena pyriformis***
Erica Behnfeldt
Faculty Mentor: Dr. Sylvia Fromherz, Biology
- 16. Seed crystals toward simulating hydrothermal vents**
Hien Nguyen
Faculty Mentor: Dr. Jason J Pagano, Chemistry
- 17. Determination of Efficacy of Biochar in Removing Antibiotics from Aqueous Solution**
Warren Jacobs, Peyton Long
Faculty Mentor: Dr. Adam Warhausen, Chemistry
- 18. Synthesis, Characterization, and Electrochemical Analysis of Synthetic Biomolecule Models Containing d8-Metal with Hydroxamate and/or Nitrosyl Ligands**
Emily Jaremba, Alice Erman
Faculty Mentor: Dr. Adam Warhausen, Chemistry
- 19. Synthesis of C-Glycosides for Potential Type II Diabetes Treatment**
Max Michalak, Devin Newman
Faculty Mentor: Dr. Jennifer Chaytor, Chemistry
- 20. Electromagnetic Detection of Failure in Electronic Interconnects**

Gavin M. Zimmer

Mentors: Dr. Mohammad A. Khan, Electrical and Computer Engineering

21. Autonomous Asian Carp Deterrent System

Connor Schumann, Tu Nguyen, Waliul Matin, Elliott Nazarowff

Faculty Mentor: Dr. Rajani Muraleedharan Sreekumarid, Electrical and Computer Engineering

22. Feasibility Study of Thermal Imaging, Sensing and Design for an Electronic System for a Dependable Source

Satrudhan Yadav

Faculty Mentor: Dr. Mohammad Khan, Electrical and Computer Engineering

23. Robotic Prosthetic Arm

Molly Gibbons, Noah Adamcik, Kevin Shaffer

Faculty Mentor: Dr. Rajani Muraleedharan, Electrical Engineering

24. Designing 3D Models for Virtual Reality

Ajay Sah

Faculty Mentor: Dr. Aneesha Gogineni, Mechanical Engineering

25. Uneven Applied Voltages Effect on a Two-Stage Electrohydrodynamic Gas Pump

Ajay Sah, Shariful Robin

Faculty Mentor: Dr. AKM Manayem H. Mazumder, Mechanical Engineering

26. Channel State Information Spectrum Gap Filling Using Shallow Neural Networks

Manish Osti, Avishek Mukherjee, Beata Hejno

Faculty Mentor: Dr. Avishek Mukherjee, Computer Science

27. Twitter Bitcoin Opinion Leader Analysis

Matthew Loucks,

Faculty Mentor: Dr. Aos Mulahuwaish, Computer Science

28. Diffusion of Microparticles and Nanoparticles in Polymers and Biopolymeric Liquids

Aiden Slate

Faculty Mentor: Dr. Kavindya Senanayake, Physics

29. Detecting Fake News on Twitter Using AI models

Manish Osti, Aos Mulahuwaish

Faculty Mentor: Dr. Aos Mulahuwaish, Computer Science

Presentations (Session 1)

Curtiss Hall

2:15 pm – 3:15 pm

Room C 100 (Moderator: Dr. Amy Pierce)

This is America, "Speak What You Want"

Evangeline Cruz

Faculty Mentor: Dr. Ryan Rigda and Dr. Amy Pierce, Communication, The Competitive Speech Team

The Ban of Trans Athletes, "It's Time to Let Them Play"

Evangeline Cruz

Faculty Mentor: Dr. Ryan Rigda and Dr. Amy Pierce, Communication, The Competitive Speech Team

SETC travel abstract

Adam Coggins

Faculty Mentor: Peggy Mead-Finizio, Theatre

Room C 102 (Moderator: Dr. Christine Pacewicz)

COVID-19 Pandemic Impacts College Student's Physical Activity and Mental Health

Margaret Pawelczyk, Rachel Darr

Faculty Mentor: Dr. Rachel Darr, Kinesiology

Evaluating Basic Psychological Needs, Motivation and Adherence in Female Virtual Health Coaching Clients

Erica Reymore, Christine Pacewicz

Faculty Mentors: Dr. Christine Pacewicz, Kinesiology

Comparison of Basil (Ocimum basilicum) Cultivation in Hydroponic and Aquaponic Systems

Madeline Bach, Colton Bragg, Jarod Morse, Courtney Thomas, Jasmine Smith

Faculty Mentors: Dr. Holly Little, Biology

Room C 128 (Moderator: Dr. Joseph Ofori-Dankwa)

BATS Project 2022: Revitalization in Saginaw

Lisa Catacosinos, Emmanuel Boadu, Alexis Krzeminski, Joshua Pickler, Abigail Walk, Brooke Ward, Avery Claybaugh, Chandler Marden

Faculty Mentors: Dr. Joseph Ofori-Dankwa, Business Leadership

Vitito New Orleans Trip - The Last Ones Standing

Samuel Johnson, Gabriella Locke

Faculty Mentors: Dr. Joseph Ofori-Dankwa, Vitito Global Leadership Institute

Vitito Number Crunchers NOLA Presentation

Nathan Piwowarsi, Hannah Wickman, Haley Nelson

Faculty Mentor: Dr. Micah DelViccio, Vitito Global Leadership Institute

Entrepreneurship in NOLA

Sydney Czyz, Joseph Bartels

Faculty Mentor: Dr. Joseph Ofori-Dankwa, Micah DelViccio, Vitito Global Leadership Institute

Panel Presentations (Session 2) Curtiss Hall

2:20 PM – 3:20 PM

Room Seminar D & E (Moderator: Dr. Julie Foss)

USITT 2022 Conference

Holly Houck, Briellé Myles-Williams, Lucas Inman, Drea Brown, Abbey Kuhns, Jaden O'Berry, Kylee Monahan

Faculty Mentor: Peggy Mead-Finizio, Theatre

Roberts Fellowship 23rd Class

Jaden O'Berry, Warren Jacobs, Talia Pruiett, Skyler Steward, Paige Talaga, Alivia Barres, Zachary Archbold

Faculty Mentors: Dr. Foss, Modern Foreign Language, Roberts Fellowship

Writing for Reshaping

Alexandra Rigot, Rachel Pflieger, Joy Bonke, Nicole Horn

Faculty Mentors: Dr. Scott Kowalewski, Professional and Technical Writing, Association of Professional and Technical Writers

Closing Remarks

Malcolm Field Theatre

4:00 pm – 5:00 PM

SHOWCASE/ OUTSTANDING GRADUATE AWARDS

- *Welcome*
- *Keynote Speaker: Franc A. Landee Teaching Excellence Award recipient*
- *UGRP Showcase Awards*
- *Outstanding Graduate Awards*
 - *Arts and Behavioral Science*
 - *Scott L. Carmona College of Business*
 - *College of Education*
 - *College of Health and Human Services*
 - *College of Science, Engineering, and Technology*
- *Closing Remarks*

Special Thanks to Faculty Volunteers:

Julie Foss, Modern Foreign Languages
Joseph Ofori-Dankwa, Business
Holly Little, Biology
Christine Pacewicz, Kinesiology
Amy Pierce, Communication
Meghan Baruth, Health Science
Dennis Savard, Criminal Justice
Taylor Rowley, Kinesiology

Jill Brown, Occupational Therapy
Adam Warhausen, Chemistry
Travis Pashak, Psychology
Jill Waliczek, Educational Leadership
Jennifer McCullough, Communication
Peggy Mead-Finizio, Theatre
Kevin Meyer, Business
Curtis Grosse, Mathematics