

Utah Valley University  
Clarke Building address  
800 W University Pkwy  
Orem, Utah, 84058  
FL #13 Fulton Library  
CB #17 Clarke Building

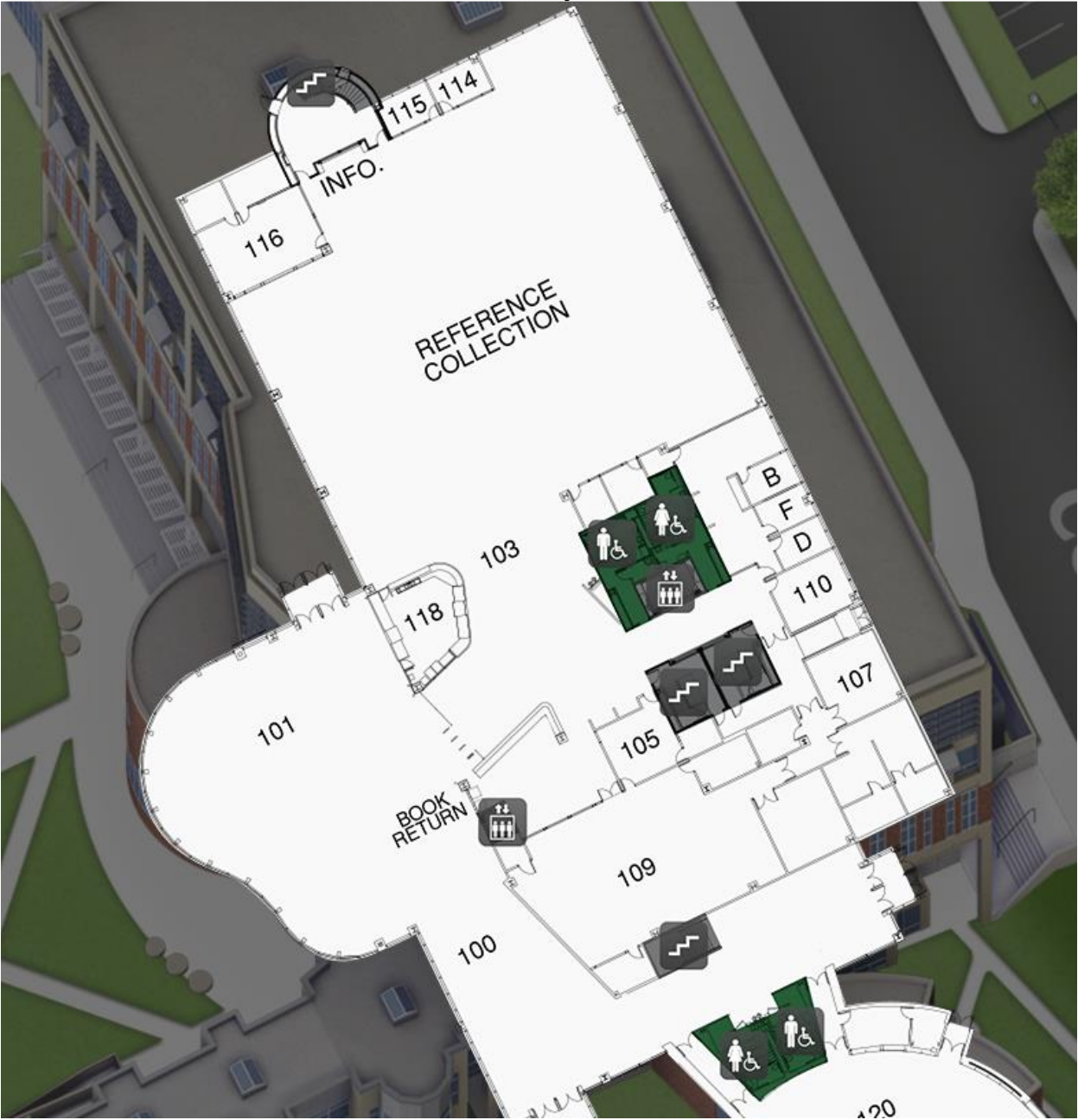


Parking in the L8, L6, L5, L3, or L4

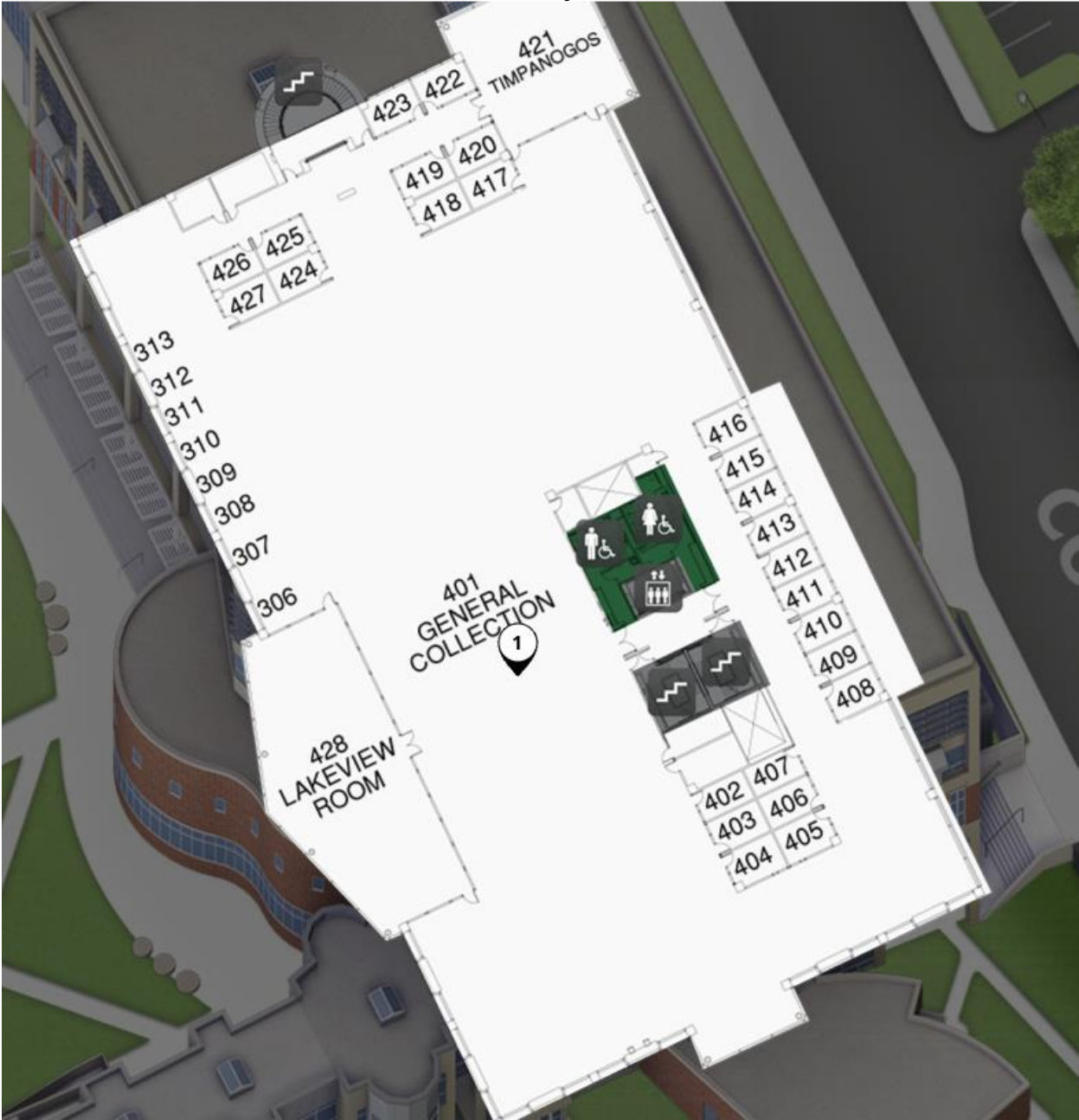




Fulton Library 1<sup>st</sup> Floor



Fulton Library 4<sup>th</sup> Floor

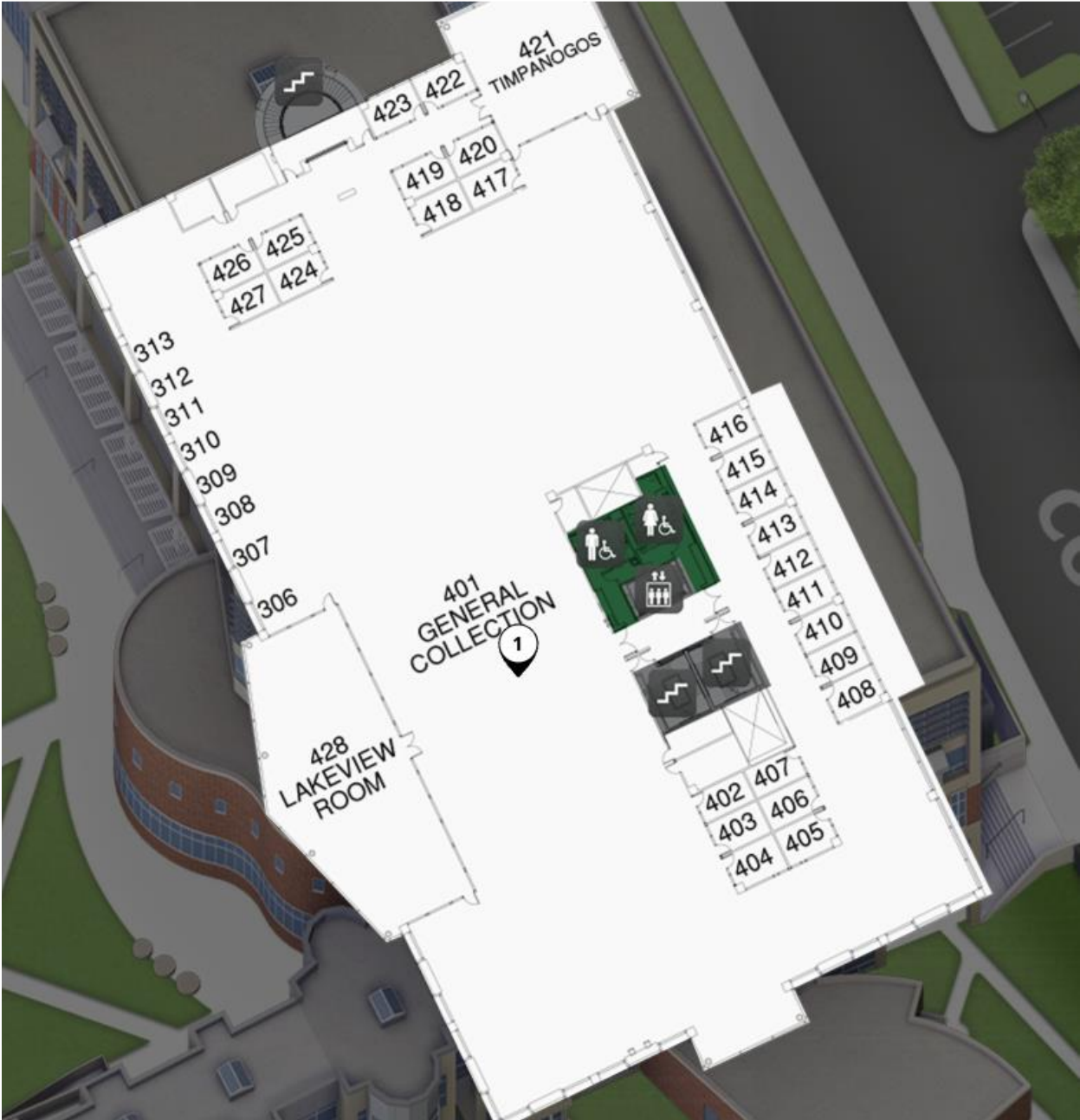


Clarke Building  
3<sup>rd</sup> Floor





Clarke Building  
4<sup>th</sup> Floor



# UTAH ACADEMY OF SCIENCES, ARTS, & LETTERS

Annual Conference - Saturday, March 22, 2025

Utah Valley University

Held in the Fulton Library (FL)

and Clarke Building (CB)

8:30 a.m. - 9:30 a.m.

**Check-in and Registration**

FL 100 Concourse

9:30 a.m. - 9:35 a.m. – Angela Banchemo-Kelleher, President

**Welcome to Utah Valley University**

**Plenary Session**

FL 120

9:35 a.m. - 10:00 a.m. – Keith Lawrence, President-Elect

**Presentation of the James H. Wolfe Award**

**Doran Jay Baker, Kay Dane Baker, and Allan Joseph Steed,  
Space Dynamics Laboratory, Utah State University  
(posthumous recipients)**

**Accepting the award: Jed Hancock, President, Space Dynamics  
Laboratory, Utah State University**

**Wolfe Address: Jed Hancock**

**Willard and Viola Gardner Prize**

**Shannon Hale**

10:00 a.m. - 10:30 a.m. - Angela Banchemo-Kelleher, President

**Distinguished Service Award**

**Dr. Kathryn Bond Stockton**

**O.C. Tanner Lecture:**

**"I Was a Queer Child: What that Might Mean for You"**

**By Dr. Kathryn Bond Stockton**

10:30 a.m. – 10:45 a.m.

**Excursion announcement**

10:45-11:00 a.m.

**Conference Photo** – Bingham Gallery/Roots of Knowledge

11:00 a.m. -12:00 p.m.

**Poster Session** – FL 428 Lakeview and FL 421 Timpanogos Rooms

12:00 p.m. – 1:00 p.m.

**Lunch** – FL 100 Main Concourse/Fl 101 Bingham Gallery

1:00 p.m. – 5:00 p.m.

**Oral Sessions** – Clarke Building

2:30 p.m. – 3:00 p.m.

**Refreshment Break** – FL 100 Main Concourse/Fl 101 Bingham Gallery

**Utah Valley University Clarke Building**

**ARTS:**

**Session A: Room: CB 307**

**BIOLOGICAL:**

**Session A: Room: CB 412**

**BUSINESS:**

**Session A: Room: CB 404**

**EDUCATION:**

**Session A: Room: CB 416**

**ENGINEERING:**

**Session A: Room: CB 308**

**HUMANITIES/PHILOSOPHY/FOREIGN LANGUAGE:**

**Session A: Room: CB 417**

**KINESIOLOGY & HEALTH SCIENCES:**

**Session A: Room: CB 414**

**LANGUAGES/LITERATURE:**

**Session A: Room: CB 415**

**PHYSICAL SCIENCES:**

**Session A: Room: CB 315**

**Session B: Room: CB 317**

**Session C: Room: CB 312**

**SOCIAL SCIENCES:**

**Session A: Room: CB 406**

**Session B: Room: CB 409**

5:00 p.m. – 6:00 p.m.

**UASAL Board Meeting**

**La Jolla Groves, Provo Utah**

**5:30-7:30.**

**The UASAL spring conference is able to provide the following Technical access:**

Every classroom has a projector with HDMI access. All rooms should have an HDMI cord. Presenters should bring any adaptors they need to connect their laptop/iPad to the projector through the HDMI. It is advised that presenters have a backup presentation (e.g., both flash drive and laptop).



**Poster Presentations**  
**Fulton Library**

**Poster Session**

Division Chair: Jacque Westover  
Utah Valley University

**SESSION A: FL 428 Lakeview and FL 421 Timpanogos Rooms**

**Session Leader:** Jacque Westover

**11:00 p.m. - 12:00 p.m.**

**Arts**

**Title: Escaping to Margaritaville: Exploring Escapism and Identity through Theatre**

Presenter: Madisen Rayburn

Author: Madisen Rayburn

Affiliation: Weber State University

**Title: Illuminating Motion: The Art of Dance and Light Synergy**

Presenter: Anya Adib

Author: Anya Adib

Affiliation: Utah Tech University

**Title: Mind and Body, East and West Integration: Bartenieff Fundamentals and Laban Movement Analysis meets Manipura (Solar Plexus) Chakra**

Presenter: Samantha Bickerstaff

Author: Samantha Bickerstaff

Affiliation: Utah Valley University

**Title: Textures of faith: the significance of textures in Hindu temples and how they can shape spiritual experiences.**

Presenter: Beverly Cademis

Authors: Beverly Cademis and Brandon Ro

Affiliation: Utah Valley University

**Title: Empowering Collegiate Dancers: Navigating the Transition to Professional Dance Careers**

Presenter: Samantha Marx and Laurie Wilson

Authors: Samantha Marx and Laurie Wilson

Affiliation: Utah Valley University

**Title: Reconstructing the Past: Experiencing the Beit Loya Basilica through Virtual Visualization**

Presenter: Tyler Hansel

Authors: Tyler Hansel, Brandon Ro

Affiliation: Utah Valley University

**Title: Evaluating Biomimetic Architecture Through Eye-Tracking Analysis**

Presenter: Dallin R. Hansen

Authors: Dallin R. Hansen, Brandon Ro

Affiliation: Utah Valley University

**Title: Monochrome vs. Color: How Architectural Color Choices Affect Visual Attention in Cayala, Guatemala**

Presenter: Juliana Martinez

Authors: Juliana Martinez, Brandon Ro

Affiliation: Utah Valley University

**Title: Form Follows Function? How Civic Architecture Speaks to the Public**

Presenter: Sadie Stutz, Davis McDermott

Authors: Sadie Stutz, Davis McDermott, Brandon Ro

Affiliation: Utah Valley University

**Title: Celestial Blueprints: Indigenous Zodiac and Solar Alignments at Tiahuanaco**

Presenter: Kierstyn Dimas

Authors: Kierstyn Dimas and Brandon Ro

Affiliation: Utah Valley University

**Title: Evaluating Educational Environments: Insights from Post-Occupancy Evaluations of School Buildings**

Presenter: Alexandra Elizabeth Mackenna,

Authors: Alexandra Elizabeth Mackenna, Brandon Ro

Affiliation: Utah Valley University

**Title: Il Duomo Unveiled: The Role of Architecture in Shaping Extraordinary Experiences at the Cathedral of Santa Maria del Fiore**

Presenter: Levi Parry

Authors: Levi Parry, Brandon Ro

Affiliation: Utah Valley University

**Title: A Comparative Analysis of Two Gothic Cathedrals Separated by Space and Time**

Presenter: Sinikka Lee

Author: Sinikka Lee

Affiliation: Utah Valley University

**Title: Finding Beauty in Balance and Cost: Analyzing the Evolution of Mobile Homes**

Presenter: Hayden Fleming

Authors: Hayden Fleming, Brandon Ro

Affiliation: Utah Valley University

**Title: Exploring Dance Reels as a Tool for Artistic and Professional Growth**

Presenter: Melissa Long

Author: Melissa Long  
Affiliation: Utah Tech University

### **Biological Sciences**

**Title: Mapping Zoological Baselines through Time in the Bear River Range: When Archaeology Meets Wildlife Science**

Presenter: Auriana Dunn

Authors: Auriana Dunn<sup>1,2</sup>, Dr. Kasey Cole<sup>1,2,3</sup>, Dr. Austin Green<sup>2,3</sup>, Dr. Tyler Faith<sup>1,4</sup>, Dr. Randal Irmis<sup>4,5</sup>

Affiliations: <sup>1</sup>Department of Anthropology, University of Utah; <sup>2</sup>College of Science, University of Utah; <sup>3</sup>Science Research Initiative, University of Utah; <sup>4</sup>Natural History Museum of Utah; <sup>5</sup>Department of Geology and Geophysics, University of Utah

**Title: Identifying cranial specimens of Utah species of *Lepus***

Presenter: Arianna Harrington

Authors: Arianna Harrington, Ethan Rowland

Affiliation: Southern Utah University

**Title: Investigating the Role of mTOR-Akt Signaling in Retinotectal Arborization and ASD-like Behaviors in Zebrafish Exposed to Valproic Acid**

Presenters: Norah Mead-Fajardo and Selafina Ngalu

Authors: Norah Mead-Fajardo, Sylvia Martinez, and Selafina Ngalu

Affiliation: Weber State University

**Title: Comparison of Different Methods to Analyze the "Autistic" Zebrafish Transcriptome**

Presenter: Marina Sidenko

Authors: Marina Sidenko and Jim Hutchins

Affiliation: Weber State University

**Title: A look into frugivorous interactions with *Psychotria* and *Palicourea* genera on Barro Colorado Island, Panama**

Presenter: Madison Smart

Authors: Noelle Beckman, Jerry Schneider, Elsa Jos, Madison Smart

Affiliation: Utah State University

**Title: In the cold blood: prevalence of parasites in Utah's reptiles and amphibians species.**

Presenter: Kyle Sparks

Authors: Kyle Sparks, Dr. Jonathan Marshall

Affiliation: Weber State University

### **Education**

**Title: The Effectiveness of Mastery Quizzes**

Presenter: Willow Park and Caleb Hiller

Authors: Willow Park and Caleb Hiller  
Affiliation: Southern Utah University

**Title: A “Formula” for a Perfect Youth Soccer Story**

Presenter: Faoiltiarna (Lilly) Schlenker, Cassidy Lamm, Halle Taylor, Whitney Blanchard  
Authors: Faoiltiarna (Lilly) Schlenker, Cassidy Lamm, Halle Taylor, Whitney Blanchard  
Affiliation: University of Utah

**Engineering**

**Title: Ritual Sequence at the Byzantine Church Complex: Mapping Liturgy of the Word and Eucharist onto the Byzantine Church Complex at Horvat Beit Loya**

Presenter: Emily Pederson  
Authors: Emily Pederson, Brandon Ro  
Affiliation: Utah Valley University

**Humanities, Philosophy, and Foreign Language**

**Title: “Ethical Analysis of Discriminatory Restrictions of Euthanasia and PAS”**

Presenter: Brielle Bratton  
Authors: Brielle Bratton, Ben Baumann, Maddison Griffin  
Affiliation: Snow College

**Title: “Human Corpses and Consent”**

Presenter: Miranda Slusser and Savanna Thompson  
Authors: Miranda Slusser, Amy Sullivan, and Savanna Thompson  
Affiliation: Snow College

**Title: “Medical Miracles: Examining the Ethical Implications of Government Intervention”**

Presenter: Kathrine Crouch  
Authors: Joshua Cox, Hattie Stubbs, Kathrine Crouch  
Affiliation: Snow College

**Kinesiology and Health Sciences**

**Title: Eating Disorders: Treating the Underlying Mental Illness**

Presenter: Darci Barker  
Author: Darci Barker  
Affiliation: Salt Lake Community College

**Title: Neural Devices**

Presenter: Kaleb Smith  
Authors: Kaleb Smith, Olivia Malouf, Esther Simpson  
Affiliation: Snow College



**Title: Implementing Walk with a Doc at Weber State University**

Presenter: Saori Hanaki

Authors: Saori Hanaki, Kelsey Hansen, Amber Palmer

Affiliation: Weber State University

**Title: Exploring the Impact of Weber State University's Lifelong Learners Program on Physical Activity Among Elderly Students**

Presenter: **Jeffery Kurt Ward**

Author: Jeffery Kurt Ward

Affiliation: Weber State University

**Title: Physiological Effects of Pickleball and Skill Level**

Presenter: Zachary Holt

Authors: Zachary Holt, James Zagrodnik, Ryan Zimmerman

Affiliation: Weber State University

**Title: Elucidating the Roles of TOX and LRRC1 on Melanoma Cell Migration and Invasion**

Presenter: Allison Stevens and Janellie Valmaceda

Authors: Allison Stevens, Janellie Valmaceda, Mya Gleed, Kingdom Wanjoku, Gennie Parkman

Affiliation: Weber State University

**Physical Science**

**Title: Raman Imaging of Carbon Materials**

Presenter: Seth Stringham

Authors: Seth Stringham, Dr. Dustin Shipp

Affiliation: Utah Valley University

**Title: Indirect Detection of Dark Matter in Dwarf Spheroidal Galaxies**

Presenter: J. Leonardo Yucra

Authors: Spencer Brickey, J. Leonardo Yucra, Jonathan Cornell

Affiliation: Weber State University

**Title: A Pilot Study Investigating Virtual Reality for Chemical Education**

Presenter: Kaden Jensen

Authors: Kaden Jensen, Matthew Prater

Affiliation: Southern Utah University

**Title: Effects of Heavy Metal Uptake in the Growth and Development of Lactuca sativa L.**

Presenter: Elise Johnson

Authors: Audrey O'Donnal, Riley Jackson, Braden Robinson

Affiliation: Utah Valley University

**Title: Benefits of Utilizing the ACS manual throughout CHEM 1210**

Presenter: Claire Neuberger and Fernanda Perez

Authors: Caleb Hiller, Claire Neuberger and Fernanda Perez  
Affiliation: Southern Utah University

### **Social Sciences**

**Title: The Paradox of Protest: Political Dissatisfaction and Satisfaction with Democracy**

Presenter: Kendra Pinegar  
Author: Kendra Pinegar  
Affiliation: Brigham Young University

**Title: Gaps in Gun Safety: A Dual Lens Approach to Addressing Gun Safety in Utah through Policy and Community Action**

Presenter: Kaisha McFall  
Authors: K. McFall, B. Meglen  
Affiliation: Utah Valley University

**Title: Bridging the Gap: A Communication Privacy Management Approach to Student-Faculty Interaction in Higher Education**

Authors: Sarah Steimel, Chloe Robison  
Affiliation: Weber State University

**Title: Perceived Financial Threat and Fear of Financial Crime**

Presenter: Liz Homez Gonzalez  
Authors: Heeuk Dennis Lee, David Kim, Liz Homez Gonzalez  
Affiliation: Weber State University

**Title: Temporal Discounting in Dating**

Presenter: Rebecca Lake, Jayden Back, Annalee Howes, Sam Luker  
Authors: Jayden Back, Rebecca Lake, Sam Luker, Annalee Howes, Nick Marsing  
Affiliation: Snow College

**Title: The Boo Factor: Comparing Emotional Reactions to AI-Generated vs. Human-Made Ghost Stories and Paranormal Experiences**

Presenter: Alison Romero, Christopher Lowery  
Authors: Alison Romero, Christopher Lowery, Emma Woods, Jade Ernst, Melissa Oman, Veronika Tait and Nick Marsing  
Affiliation: Snow College

**Crunching Numbers: The Effect of a Calculation Task on the Stress Response**

Presenter: Ethan Garff  
Authors: Kelsey Peterson, Isabella Hixon, Brecken Spencer, Ethan Garff, Kaitlyn Jensen, Shonda Ewell, and Dr. Claudia Jorgensen  
Affiliation: Utah Valley University

**Title: Generations Against Innocence**

Presenter: Sarah Goodman

Authors: Sarah Goodman, Camden Jorgensen, Isaac Atkinson  
Affiliation: Snow College

**Title: High Concentrations of Air Pollution for Marginalized Groups in Salt Lake Valley**

Presenter: McKay Jones  
Authors: McKay Jones, Janessa- Michelle Purcell  
Affiliation: Utah Valley University

**Title: Gym Culture and Self-Perception**

Presenter: Joshua Mullen  
Authors: Joshua Mullen, Kimberly Jones, Adilen Yanez Maciel, Tom Hanson  
Affiliation: Salt Lake Community College

**Title: “Choice Overload: Post-decision Satisfaction Amongst Online Daters”**

Presenter: Janessa Dyches  
Authors: Janessa Dyches, Taryn Williams, and Ozkar Jensen  
Affiliation: Snow College

**Oral Presentations**  
**Clarke Building**

**Arts**

Division Chair: Jim Godfrey  
Utah Valley University

**SESSION A: CB 307**

Session Leader: Jim Godfrey

**1:00 p.m.**

Title: Bomba from Utah: Studying a Puerto Rican Folk music in a Modern Diasporic Context  
Presenter: Drew Fallon  
Author: Drew Fallon  
Affiliation: University of Utah

**1:15 p.m.**

Title: Harmonious Inclusion: Exploring Accessibility in Musical Theatre for the Deaf and Blind Communities  
Presenter: Audree Clark  
Authors: Francesca Mintowt-Czyz and Audree Clark  
Affiliation: Weber State University

**1:30 p.m.**

Title: The Choreography of Fear: Exploring the Societal Anxieties of “The Other”  
Presenter: Abbie Simpson  
Author: Abbie Simpson  
Affiliation: Utah Valley University

**1:45 p.m.**

Title: Deciphering the “Jesus is Here” Cave: Early Christian Worship, Sacred Space, and Hierophany at Horvat Beit Loya

Presenter: Brandon Ro

Author: Brandon Ro

Affiliation: Utah Valley University

**2:00 p.m.**

Title: The Consequential Career of Francis Davis Millet

Presenter: Charlotte Poulton

Author: Charlotte Poulton

Affiliation: Utah Valley University

**2:15**

Title: The Body as Border in Laura Aguilar’s Three Eagles Flying

Presenter: Amanda Platt-Allen

Author: Amanda Platt-Allen

Affiliation: University of Utah

**2:30 p.m.      Break - FL 100 Main Concourse/Fl 101 Bingham Gallery**

**3:00 p.m.**

Title: Female Creators in Mexican Surrealism: The Psychological Effects of Exile on the Art of Remedios Varo and Leonora Carrington

Presenter: Aubrey Gallafent

Authors: Aubrey Gallafent

Affiliation: Utah Valley University

**3:15 p.m.**

Title: The “Last Woman”: Reimagining Female Apocalyptic Experiences in Threads (1984)

Presenter: Sophia Osburn

Author: Sophia Osburn

Affiliation: Brigham Young University

**3:30 p.m.**

Title: Marcel Duchamp and Rose Selavy: Gender as Readymade

Presenter: Cameron Christensen

Author: Cameron Christensen

Affiliation: Utah Valley University

**3:45 p.m.**

Title: Gendered Sacrifice: The Impact of Site and Story at the 1785 Salon

Presenter: Elli Coupe

Author: Elli Coupe

Affiliation: University of Utah



**4:00 p.m.**

Title: Touching Loss: The Language of Hands in Käthe Kollwitz's Maternal Mourning

Presenter: Lily Greenwood

Author: Lily Greenwood

Affiliation: Utah Valley University

**4:15 p.m.**

Title: Touching Loss: Art Beyond Western Tradition: The Never Ending Influence of Taíno Art in the Dominican Republic

Presenter: Amanda Lowry Wiberg

Author: Amanda Lowry Wiberg

Affiliation: Southern Utah University

**Biological Sciences**

Division Chair: Daniel Clark

Weber State University

**SESSION A: CB 412**

Session Leader: Daniel Clark

**1:00 p.m.** Welcome

**1:10 p.m.**

Title: Temperature-Dependent Strategies for Dengue Control: Integrating *Wolbachia* and Natural Predators in a Mathematical Model

Presenter: Vinodh Kumar Chellamuthu

Author: Vinodh Kumar Chellamuthu

Affiliation: Utah Tech University

**1:30 p.m.**

Title: An examination of the chloroplast petD intron among eusporangiate ferns

Presenter: William Speer

Author: William Speer

Affiliation: Salt Lake Community College

**1:50 p.m.**

Title: Brain-eating Amoeba *Naegleria fowleri*: Drug inhibition in a human cell infection model

Presenter: Aspen Acuña

Authors: Aspen Acuña, Braden Freestone, Kody Korth, Victoria Green, Hannah Payne, Ethan Jensen, Daniel N. Clark

Affiliation: Weber State University

**2:30 p.m.** Break - FL 100 Main Concourse/Fl 101 Bingham Gallery

**Business**

Division Chair: Taowen Le  
Weber State University

**SESSION A: CB 404**

Session Leader: Taowen Le

**1:00 p.m.** Welcome and Introduction

**1:10 p.m.**

Title: Undergraduate Business Student Attitudes towards General Education Classes

Presenter: Cash Schmutz

Authors: James C. Brau, Cash Schmutz

Affiliation: Brigham Young University

**1:30 p.m.**

Title: Undergraduate Student Attitudes Towards the Impact of AI on Future Business Careers

Presenter: Cash Schmutz

Authors: James C. Brau, Cash Schmutz

Affiliation: Brigham Young University

**1:50 p.m.**

Title: Desired Leadership Traits in First Bosses: A Study of Extant Leadership Theories

Presenter: Nathan Boekweg

Authors: Nathan Boekweg, James C. Brau, Jameson L. Brau

Affiliation: Brigham Young University

**2:10 p.m.**

Title: The Oyster is Your World: A Revised Look at International Diversification

Presenter: Robert Dobil

Author: Robert Dobil

Affiliation: University of Utah

**2:30 p.m.**

Title: Autonomous Annotations for Second-hand E-commerce Platforms using Generative Artificial Intelligence

Presenter: Taehyun Noh

Authors: Taehyun Noh, Jimin Go, Seokwoo Song

Affiliation: Weber State University

**2:50 p.m.**

Title: Cultivating Career Growth and Enhancing Workforce Resilience: The Role of Mentorship in Job Satisfaction and Engagement

Presenter: Wu-Ting Chen

Author: Wu-Ting Chen

Affiliation: Utah Valley University

**3:10 p.m.**

Title: Protecting the Mushroom Kingdom: A Case Study on Nintendo's Intellectual Property Regulation

Presenter: Hassan El-Cheikh

Author: Hassan El-Cheikh

Affiliation: Brigham Young University

**3:30 p.m.**

Title: Is TikTok Affecting the Mental Health of Your Employees? Examining the Link Between Compulsive TikTok Use and Mental Health.

Presenter: Jeffrey A. Clements

Author: Jeffrey A. Clements

Affiliation: Weber State University

**3:50 p.m.**

Title: Utah's Rising Property Tax and Income Tax Cuts

Presenter: Xiaoli Ortega

Author: Xiaoli Ortega

Affiliation: Utah Valley University

**4:10 p.m.**

Title: Long-Haul Trucking Firm Targets: An Empirical Analysis of the M & A Logistics Market

Presenter: James C. Brau

Authors: Gregory L. Adams, James C. Brau, Rebekah Inez Brau

Affiliation: Brigham Young University

**4:30 p.m.**

Title: Does Ethics or Diversity Training Impact Perceptions of Emerging Adults towards Corporate Social Responsibility Diversity Metrics: A Mixed Methods Analysis

Presenter: James C. Brau

Authors: James C. Brau, Jameson L. Brau, Sabrina D. Volpone

Affiliation: Brigham Young University, Gonzaga University, University of Colorado Boulder

**4:50 p.m.**

Title: Leverage Pays: an Analysis into Investing in Leveraged Exchange-Traded Funds (ETFs) Long-Term

Presenter: Ashton Call

Authors: Ashton Call, Todd Griffith, Asher Mitchell

Affiliation: Utah State University

**Education**

Division Chair Doug Stump

Southern Utah University

**SESSION A: CB 416**

Session Leader: Doug Stump

**1:00 p.m.**

Title: A “Formula” for a Perfect Youth Soccer Story

Presenter: Faoiltiarna (Lilly) Schlenker, Cassidy Lamm, Halle Taylor, Whitney Blanchard

Authors: Faoiltiarna (Lilly) Schlenker, Cassidy Lamm, Halle Taylor, Whitney Blanchard

Affiliation: University of Utah

**1:20 p.m.**

Title: Clicking to Connect: A Qualitative Study on How Personal Engagement with Professors Enhances Online Learning Outcomes

Presenter: Sana Shahid

Author: Sana Shahid

Affiliation: Utah State University

**1:40 p.m.**

Title: Living the Kodály Concept Beyond Elementary: An Historical Case Study of Rosalind Hall’s Legacy in Secondary Choral Education

Presenter: Heather Christiansen

Author: Heather Christiansen

Affiliation: University of Utah

**2:00 p.m.**

Title: Transitions into Leadership: Peer Leadership Experiences of First Year Administrators.

Presenter: **Douglas Stump**

Author: Douglas Stump

Affiliation: Southern Utah University

**2:30 p.m. Break - FL 100 Main Concourse/Fl 101 Bingham Gallery**

**Engineering**

Division Chair: Ali Siahpush

Southern Utah University

**SESSION A: CB 308**

**Session Leader:** Ali S. Siahpush

**1:00 p.m. Welcome**

**1:15 p.m.**

Title: Launch and Analysis of High Altitude PICO Weather Balloon

Presenter: Raine Pratt, Sadie Schenk, Taylor Davis

Authors: Raine Pratt, Sadie Schenk, Taylor Davis, Ali Syeed Siahpush

Affiliation: Southern Utah University

**1:30 p.m.**



Title: Slab of Ice Melting Rate Due To Natural Convection and Thermal Radiation  
Presenter: Tim Amodt  
Authors: Tim Amodt, Ali Syyed Siahpush  
Affiliation: Southern Utah University

**1:45 p.m.**

Title: Low-Cost Dual-Band Radar System for Drone Detection and Tracking with AI-Driven Target Prioritization  
Presenter: Ahmed Amin  
Author: Ahmed Amin  
Affiliation: Southern Utah University

**2:00 p.m.**

Title: Heat Transfer Experiment: Top-Down Spray Type Direct Evaporative Cooler  
Presenter: Erik Berthoty  
Authors: Erik Berthoty, Ali Syyed Siahpush  
Affiliation: Southern Utah University

**2:15 p.m.**

Title: Critical Radius of Insulation For a Cylindrical Copper Tube  
Presenter: Taylor Davis, Raine Pratt, Brock May  
Authors: Taylor Davis, Raine Pratt, Brock May, Ali Syyed Siahpush  
Affiliation: Southern Utah University

**2:30 p.m.**      **Break - FL 100 Main Concourse/Fl 101 Bingham Gallery**

**3:00 p.m.**

Title: Heat Transfer Analysis of Melting Rate of Ice In Clay and Paper Mixture Containers  
Presenter: Kailee Richman  
Authors: Kailee Richman, Ali Syyed Siahpush  
Affiliation: Southern Utah University

**3:15 p.m.**

Title: Experimental Indirect Evaporative Cooling Fridge  
Presenter: Lucas Hatch  
Authors: Lucas Hatch, Ali Siahpush  
Affiliation: Southern Utah University

**Humanities, Philosophy, and Foreign Language**

Division Chair: **Thomas C. Terry**  
Utah State University

**SESSION A: CB 417**

Session Leader: Thomas Terry

**1:00 p.m.**

Title: "Beckett, McCarthy, and the Boundaries of Dystopia"

Presenter: David A. Hatch

Author: David A. Hatch

Affiliation: Southern Utah University

**1:15 p.m.**

Title: "John Wesley Powell, the Grand Canyon, and the Myth of Native Self-Imprisonment"

Presenter: Evan Mahler

Author: Evan Mahler

Affiliation: University of Utah

**1:30 p.m.**

Title: "Faith and Feeds: The Impact of Social Media on Voter Attitudes and Presidential Support in the USA"

Presenter: Aggrey Willis Otieno, Ph.D.

Author: Aggrey Willis Otieno, Ph.D.

Affiliation: Utah State University

**1:45 p.m.**

Title: "Unmasking and Taming the Social Media Mental Health Concerns Haunting Utah's Kids"

Presenter: Aggrey Willis Otieno, Ph.D.

Author: Aggrey Willis Otieno, Ph.D.

Affiliation: Utah State University

**2:00 p.m.**

Title: "Then I Remembered: Joan Didion on Grief: Minimalism and Phenomenology."

Presenter: George Dibble

Author: George Dibble

Affiliation: Brigham Young University, student

**2:15 p.m.**

Title: "Race off the Agenda: The Visibility and then Invisibility of Black Americans in the Chicago Tribune in 1859 and 1952"

Presenter: Thomas C. Terry, Ph.D.

Author: Thomas C. Terry, Ph.D.

Affiliation: Utah State University

**2:30 p.m.**      **Break - FL FL 100 Main Concourse/Fl 101 Bingham Gallery**

**2:45 p.m.**

Title: "Quality of Life on an 'Indian' Reservation: A Comparative Analysis of the Navajo Nation and General U.S. Population"

Presenter: Adam Nez

Author: Adam Nez

Affiliation: Snow College

**3:00 p.m.**

Title: "Forced Displacement and Assimilation: a Long-lasting Legacy for Native Communities"

Presenter: Emerson Hackford

Author: Emerson Hackford

Affiliation: Snow College

**3:15 p.m.**

Title: "From 'Abominable Snowman' to 'Yeti Anila:' Exploring Yeti Mythology Across Himalayan Cultures"

Presenter: Dawa Dechen Lama

Author: Dawa Dechen Lama

Affiliation: Snow College

**3:30 p.m.**

Title: "Across the Gulf: Land, Memory, and Identity in northern Guatemala and the US South"

Presenter: Fernando Nieto Montaña, Jr.

Author: Fernando Nieto Montaña, Jr.

Affiliation: Snow College

**3:45 p.m.**

Title: "Nights at the Museum: Agroforestry and Cultural and Ecological Patrimony in the Maya Biosphere Reserve of Northern Guatemala (a field report, in haibun style)"

Presenter: English Brooks, Ph.D.

Author: English Brooks, Ph.D.

Affiliation: Snow College

**4:00 p.m.**

Title: "A PEG Tube, Who Decides?"

Presenters: Kade Miller and Debbie Olsen

Authors: Kade Miller and Debbie Olsen

Affiliation: Snow College

**Kinesiology & Health Sciences**

Division Chair: **Tracy Fawns**

Utah Tech University

**SESSION A: CB 414**

Session Leader: Tracy Fawns

**1:00 p.m.**

Title: Gaps in Research on Women with Autoimmune Diseases

Presenter: Emma Smith

Author: Emma Smith

Affiliation: Utah Valley University

**1:20 p.m.**

Title: Smart Tools, Smarter Teaching: AI Challenges and Opportunities for Nursing Faculty and Academic Librarians  
Presenter: Tavish Bell  
Author: Tavish Bell  
Affiliation: Utah Tech University

**1:40 p.m.**

Title: Musical (Department) Chairs: The Health Impacts of Serving as a Rotating Department Chair  
Presenter: James Bemel  
Author: James Bemel  
Affiliation: Utah Valley University

**2:00 p.m.** Q & A/Discussion

**2:30 p.m.**     **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: Exploring the Impact of COVID-19 on Smoking Cessation: A Comprehensive Literature Review  
Presenter: Linnette Wong  
Author: Linnette Wong  
Affiliation: Weber State University

**Language-and Literature**

Division Chair: Michael Taylor  
Brigham Young University

**SESSION A: CB 415**

Session Leader: Keith Lawrence

**1:00 p.m.**

Title: Ethical Editing: Care Ethics in Technical Editing Pedagogy  
Presenters: Rachel Bryson, Thabata Fay, Zabrina Le, Emmerson Martin, and Cora Romero  
Authors: Rachel Bryson, Thabata Fay, Zabrina Le, Emmerson Martin, and Cora Romero  
Affiliation: University of Utah

**2:00 p.m.**     Q & A Discussion

**2:30 p.m.**     **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: To Every Fish a Fantasy: The Little Mermaid, Disability, and the Right to Love  
Presenter: Miranda Slusser  
Author: Miranda Slusser  
Affiliation: Snow College



**3:20 p.m.**

Title: An Arrangement of Cogs: Speculative Form and Reality in Alan Moore and Dave Gibbons' "Watchmen"

Presenter: **Ezra Stein**

Author: Ezra Stein

Affiliation: Southern Utah University

**3:40 p.m.**

Title: "A Lotus Flower in the Mud": Woman as Dialectical Image in 19th-century Japan and America

Presenter: Coleman Numbers

Author: Coleman Numbers

Affiliation: Brigham Young University

**4:00 p.m.**      Q & A Session/Discussion

**Physical Sciences**

Division Chair: Maria Rodriguez

Utah State University

**SESSION A: CB 315**

Session Leader: Maria Rodriguez

**1:00 p.m.**

**Title: High-Velocity Pulsar Kicks via Anisotropic Neutrino Emission**

Presenter: Tate R. Thomas

Authors: Tate R. Thomas, Alexander M. Panin

Affiliation: Utah Valley University

**1:20 p.m.**

Title: Gravity Solutions in the Cloud: A Repository of General Relativity Computations

Presenter: Morgan Maxwell

Authors: Morgan Maxwell, Joseph Ray, Maria J. Rodriguez, Luis Fernando Temoche

Affiliation: Utah State University

**1:40 p.m.**

Title: Gravitational tidal deformations of rotating black holes

Presenter: Fernando Temoche

Authors: Glazer, Daniel; Joyce, Austin; Rodriguez, Maria J.; Santoni, Luca; Solomon, Adam R.;

Temoche, Luis Fernando

Affiliation: Utah State University

**2:00 p.m.**

Title: How Much Quantum Confusion Does it Take to Catch an Eavesdropper

Presenter: Boaz Oswald

Authors: Boaz Oswald, Jean Francois Van Huele  
Affiliation: Brigham Young University

**2:30 p.m.**      **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: Taphonomic, stratigraphic, and morphological analysis of hadrosauroids from the lower Wahweap Formation (early Campanian): insights into the early evolution and ecology of Hadrosauridae in North America

Presenter: Madison Watkins

Authors: Madison S. Watkins, Alan L. Titus, Katja Knoll, Bryce A. Cassiano, Joseph J.W. Sertich, Grant T. Shimer, Arianna Harrington

Affiliation: Southern Utah University

**3:20 p.m.**

Title: Revisiting Tidal Deformations in Black Holes

Presenter: Maria J Rodriguez

Authors: Maria J Rodriguez and Malcolm Perry

Affiliation: Utah State University

**SESSION B: CB 317**

Session Leader: TBA

**1:00 p.m.**

Title: Metal Nanoparticles Synthesis with Biological Capping Ligands Facilitated by Microfluidic Devices

Presenter: Seth Wetjen, Samuel Hodnett

Authors: Seth Wetjen, Samuel Hodnett, Connor Cronin, Christopher Monson

Affiliation: Southern Utah University

**1:20 p.m.**

Title: Estimating Environmental Exposure with Uncensored and Censored data

Presenter: Sazib Hasan

Authors: Sazib Hasan

Affiliation: Utah Tech University

**1:40 p.m.**

Title: Quantifying Cadmium and Lead Concentrations in Cocoa Beans

Presenter: Lydia Felix

Authors: Hannah J. Verhaal, Lydia E. Felix, Harrison R. Yates, Charles F. Davidson, J. Andreas Lippert

Affiliation: Weber State University

**2:00 p.m.**

Title: Design and Performance Assessment of Butyl Norbornene Cross-Linked Anion Exchange Membranes for High-Efficiency Non-Aqueous Redox Flow Batteries

Presenter: Md Motiur R Mazumder  
Author: Md Motiur R Mazumder  
Affiliation: Utah Tech University

**2:30 p.m.**     **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: Microplastic Accumulation in Shoreline Sediments of the Ogden River System  
Presenter: Kenley Stanger  
Authors: Kenley Stanger, Davis Swanson  
Affiliation: Weber State University

**3:20 p.m.**

Title: A stable numerical scheme for a Lengyel-Epstein reaction diffusion model  
Presenter: Jianlong Han  
Author: Jianlong Han  
Affiliation: Southern Utah University

### **SESSION C: CB 312**

Session Leader: TBA

**1:00 p.m.**

Title: A Device to Measure Ionic Strength in a High School Setting  
Presenter: Abigail G. Petersen  
Authors: Abigail G. Petersen, Lisa Monson, and **Christopher F. Monson**  
Affiliation: Southern Utah University

**1:20 p.m.**

Title: Strain-Driven Metal-to-Insulator Transition and Ferroelectricity in  $WTe_2$   
Presenter: Ross Richins  
Authors: Ross Richins, Shao Qiu  
Affiliation: Southern Utah University

### **Social Sciences**

Division Chair: **Emily Putnam**  
Salt Lake Community College

### **SESSION A: CB 406**

Session Leader: Emily Putnam

**1:00 p.m.**

Title: 'It's Not So Easy to Be Free': the Sounds of Protest in Folk Rock  
Presenter: Theresa Martinez  
Authors: Theresa Martinez  
Affiliation: University of Utah

**1:15 p.m.**

Title: Why's the Water Gone?: The Treadmill of Production Through Global Water Scarcity

Presenter: Joshua Cafferty, PhD

Author: Joshua Cafferty, PhD

Affiliation: Utah Tech University

**1:30 p.m.**

Title: Students on the Margins: Investigating Student Belonging, Academic Success, Resilience, and Enrollment Intentions Among Marginalized Utah College Students

Presenter: Henry Greene

Authors: Sydney O'Shay, Amanda Lilly, Nicole Allen, Rachel Robison-Greene, Henry Greene, and Grace Pulsipher

Affiliation: Utah State University

**1:45 p.m.**

Title: Can the Socratic Method Revive Academic Integrity? A Comparative Analysis of Assessment Strategies among Professors and Students in Pakistan and the U.S.

Presenter: Dr. Sana Shahid

Authors: Dr. Sana Shahid

Affiliation: Utah State University

**2:00 p.m.**

Title: Navigating Motherhood and Fieldwork in Post-Conflict and Post-Genocide Contexts

Presenter Miriam Greene

Authors: Miriam Green, Dr. Stephanie Wolfe

Affiliation: Weber State University

**2:15 p.m.**      Q&A

**2:30 p.m.**      **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: The Sacred Structures of Ogden's 25th Street

Presenter: Brittney Mast, Chelsea Raza, and Kasey Daniels

Authors: Brittney Mast, Chelsea Raza, and Kasey Daniels

Affiliation: Weber State University

**3:15 p.m.**

Title: Media Influence and Policy Response: The Impact of Media Coverage in International Human Rights Violations

Presenter: Macy McCormack

Author: Macy McCormack

Affiliation: Weber State University

**3:30 p.m.**      Q & A/Discussion

**3:45 p.m.** Conclude

**SESSION B: CB 409**

Session Leader: Coco James

**1:00 p.m.**

Title: Investigating the Source and Veracity of Utah Stereotypes

Presenter: Rick Phillips

Authors: Ryan T. Cragun, Bethany Gull, Michael Nielsen, Rick Phillips, Jesse Smith,

Affiliation: Ryan T. Cragun, University of Tampa; Bethany Gull, Utah Tech University; Michael

Nielsen, Georgia Southern University; Rick Phillips, University of North Florida; Jesse Smith,

Western Michigan University

**1:15 p.m.**

Title: Wellbeing, justice, and experiential learning: A mixed methods study of a university campus garden

Presenter: Elisa Diaz

Authors: Elisa Diaz and CoCo James

Affiliation: University of Utah

**1:30 p.m.**

Title: Utah Lake: The Complex Origins of Shifting Baseline Syndrome

Presenter: Teri Harman

Author: Teri Harman

Affiliation: University of Utah

**1:45 p.m.**

Title: Demographic Survey of a Utah Street Tai Chi Program

Presenter: Sabrina Espinoza

Authors: Sabrina Espinoza, Kassidy Drage, Daniel Poole

Affiliation: Salt Lake Community College

**2:00 p.m.**

Title: Navigating Food Choices: A Qualitative Diabetes Camp Study

Presenter: Morgan Heelis and Echo Oliver

Authors: Morgan Heelis, Echo Oliver, Carla Cox, Eddie Hill, and Christina Aguilar

Affiliation: Weber State University

**2:15 p.m.** Q & A/Discussion

**2:30 p.m.** **Break** - FL 100 Main Concourse/Fl 101 Bingham Gallery

**3:00 p.m.**

Title: Infrastructure Discrimination in the Westside of Salt Lake City: A systems Mapping Approach

Presenter: Sebastian Trias, Morgan Aamodt, Hyrum Forstrom

Authors: Sebastian Trias, Morgan Aamodt, Hyrum Forstrom  
Affiliation: Utah Valley University

**3:15 p.m.** Q & A/Discussion

**3:45 p.m.** Conclude