Agriculture & Animal Science

Agriculture & Animal Science Section 1 (Poster)
Presenter Name: Ellie Zebas
Title: Host Evaluation of Selected Oilseed Radishes as Cover Crops for Beet Cyst Nematode

Agriculture & Animal Science Section 2 (Poster)
Presenter Name: Carolina Pratas Glycerio de Freitas
Title: Relating Leaf Area Index to sorghum canopy traits

Agriculture & Animal Science Section 3 (Poster)
Presenter Name: Jordan Gembarski, Caden Opsommer, Bailey Walker
Title: The COVID Animal Fostering Boom: Ephemera or Chimera?

Agriculture & Animal Science Section 4 (Oral)
Presenter Name: Avery Tilley
Title: Detection of sparse species of special concern utilizing a multiplex edna approach: redside dace (clinostomus elongatus) and brook trout (salvelinus fontinalis) in the ottawa national forest

Anthropology & Archaeology

Anthropology & Archaeology Section 1 (Poster)
Presenter Name: Maegan Jankowski
Title: An Osteobiographical Analysis of Skeletal Remains and Beaded Artifact From Caesarea Maritima

Anthropology & Archaeology Section 2 (Poster)
Presenter Name: Mariah Larr
Title: Analysis of Human Remains from the Caesarea Maritima archaeological site

Anthropology & Archaeology Section 3 (Poster)
Presenter Name: Jason Pasikowski
Title: Genetic distance mapping of Caesaria Maritima using nonmetric traits of the human skull.

Anthropology & Archaeology Section 4 (Oral)
Presenter Name: Ian Donahue
Title: MSU and the Jewish Community: a Student Ethnography in Uncertain Times

Biochemistry & Molecular Biology

Biochemistry & Molecular Biology Section 1 (Poster)
Presenter Name: Jessica Egleston
Title: Structural Comparison between Small Multidrug Resistance (SMR) Transporter Family Members through Molecular Dynamics Simulations

Biochemistry & Molecular Biology Section 2 (Poster)
Presenter Name: Jaylynn Jones
Title: Generating a bidirectional communication pathway between E.coli and Cyanobacteria

Biochemistry & Molecular Biology Section 3 (Poster)
Presenter Name: Jarrod Griffus
Title: Optimizing the Protein Solubility and Yield of CfACT1-6 and CfACT1-8

Biochemistry & Molecular Biology Section 4 (Oral)
Presenter Name: Drew Mitchell
Title: Bacterial Microcompartment Production in Arabidopsis thaliana: A Synthetic Approach

Business

Business Section 1 (Poster)
Presenter Name: Emma Catalina, Melissa Kreger, Courtney Palkowski
Title: Getting Michigan Companies Into International Markets: the MEGP Program

Business Section 2 (Poster)
Presenter Name: Jacob Surbrook
Title: DEI on Wall Street: Does the presence of a Chief Diversity Officer (CDO) yield greater stock returns?

Cell Biology, Genetics & Genomics

Cell Biology, Genetics & Genomics Section 1 (Poster)
Presenter Name: Carolyn Stults
Title: Disruption of a putative caspase site within DNA-PKcs results in increased resistance to DNA damaging agents.

Cell Biology, Genetics & Genomics Section 2 (Poster)
Presenter Name: Aya Latif
Title: Development and Characterization of a Novel RNF216 Conditional Knockout Model in Mouse Testes

Cell Biology, Genetics & Genomics Section 3 (Poster)
Presenter Name: Josie Kleve
Title: Toward a Gene Expression Profile for Palate Periderm

Cell Biology, Genetics & Genomics Section 4 (Poster)
Presenter Name: Anna Heath
Title: Tumorigenic potential of triclosan, an antimicrobial ingredient found in common household products.
Cell Biology, Genetics & Genomics Section 5 (Oral)

*Presenter Name:* Katherine Lauro
*Title:* Engineering Extracellular Vesicles as IGF-1 Gene Delivery Vehicles for Type 1 Diabetes

Cell Biology, Genetics & Genomics Section 6 (Oral)

*Presenter Name:* Grant Bruninga
*Title:* Microsatellite Genotyping of Lake Herring

**Communication Arts & Sciences**

Communication Arts & Sciences Section 1 (Poster)

*Presenter Name:* Kayla Arafat, Jenna Fisher, Kori Kloostra, Cameron Martin, Erika Mueller, Olivia Parker
*Title:* Issues in Reliable and Valid Transcription of Stuttered Speech Using CLAN

Communication Arts & Sciences Section 2 (Oral)

*Presenter Name:* Nicoline Bradford, Grace Cyporyn, Julius Patto, Jennifer Rousseau
*Title:* Street Teams and Lansing Art Gallery

Communication Arts & Sciences Section 3 (Film)

*Presenter Name:* Panathip Chimrak, Juhua Huang, Apichaya Thaneerat, Claudia Lim, Nadiah Mohamed Hasnol
*Title:* Why Won't They WriteGrammatically?

**Criminal Justice & Legal Studies**

Criminal Justice & Legal Studies Section 1 (Poster)

*Presenter Name:* Maddie Allen
*Title:* Are More Protective Factors Or Factor Groupings Associated With Fewer Future Court Petitions Among Adjudicated Youth?

**Diversity & Interdisciplinary Studies**

Diversity & Interdisciplinary Studies Section 1 (Poster)

*Presenter Name:* Lexi Nadolsky, Arika Hawkins
*Title:* Out of Sight, Out of Mind: Epistemic Exclusion of People of Color Across STEM disciplines

**Education**

Education Section 1 (Poster)

*Presenter Name:* Sam Bourgeois, Ellie Friedman
*Title:* Assessing Writing in Children Who Use African American English: The Impact of a Culturally Responsive Scoring Approach in Grades 3-4
**Engineering, Computer Science & Mathematics**

Engineering, Computer Science & Mathematics Section 1 (Poster)
*Presenter Name:* Allison Huckins  
*Title:* Soybean-Derived Photopolymer Resins: Characterization of Surface and Bulk Properties

Engineering, Computer Science & Mathematics Section 2 (Poster)
*Presenter Name:* Bonnie Stolt  
*Title:* Origins of Ultralow Thermal Conductivity in KAg2SbS4

Engineering, Computer Science & Mathematics Section 3 (Poster)
*Presenter Name:* Emily Kelly  
*Title:* Thumb Motion: A New View

Engineering, Computer Science & Mathematics Section 4 (Oral)
*Presenter Name:* Julia Zera, Areebah Mahdia  
*Title:* Patterns in the Reciprocals of Primes

Engineering, Computer Science & Mathematics Section 5 (Oral)
*Presenter Name:* Andrew Mcdonald  
*Title:* Beyond Point Prediction: Capturing Zero-Inflated & Heavy-Tailed Spatiotemporal Data with Deep Extreme Mixture Models

**Environmental Science & Natural Resources**

Environmental Science & Natural Resources Section 1 (Poster)
*Presenter Name:* Vincent Marinelli  
*Title:* Quantifying Fouling and Cleaning Cycles on Membrane Surface Chemistry

Environmental Science & Natural Resources Section 2 (Poster)
*Presenter Name:* Aaron Sullivan  
*Title:* Hot on the trail: Utilization of Radio Telemetry to track and manage invasive Red Swamp Crayfish in Michigan

Environmental Science & Natural Resources Section 3 (Poster)
*Presenter Name:* Phyllis Feldpausch, Hunter Hansen  
*Title:* MSU Water-Level Sensors in Oakland County

**Epidemiology & Public Health**

Epidemiology & Public Health Section 1 (Poster)
*Presenter Name:* Zahra Ahmad  
*Title:* Use-of-Force Policy Transparency: Michigan Sheriff and Police Departments
Epidemiology & Public Health Section 2 (Poster)
Presenter Name: Amulya Vankayalapati
Title: Assessment of Heavy Metal Contamination in Gardens of a Michigan Community with Lead Water Contamination

Epidemiology & Public Health Section 3 (Poster)
Presenter Name: Sydney Bush, Atef Choudhury, Sanjanasri Pothuraju, Blake Potvin
Title: Virus Adhesion to Fomites in Healthcare Settings: Masks, Biomedical Materials, and Other Indoor Surfaces

Epidemiology & Public Health Section 4 (Oral)
Presenter Name: Megha Pratapwar
Title: Exposure from per- and polyfluoroalkyl substances in infants through human milk

Film & Digital Media

Film & Digital Media Section 2 (Film)
Presenter Name: Daniel Pena, Heather Kulkis
Title: Minus One

Global & Area Studies

Global & Area Studies Section 1 (Poster)
Presenter Name: Matt Sutton
Title: Diversity & Inclusion in the Workplace: Practices & Strategies between France and the US

Global & Area Studies Section 2 (Oral)
Presenter Name: Gabby Nelson
Title: From Hidden Slum to Sprawling City: The Resilience of Ciudad Neza, Mexico since the 1940s

Health Sciences

Health Sciences Section 1 (Poster)
Presenter Name: Michael Kaven
Title: Vitamin D as cofactor for neurodevelopment and cognitive function

Health Sciences Section 2 (Poster)
Presenter Name: Kaily Kao
Title: Testing for Foodborne Pathogens Using E. coli O157 Biosensor

Health Sciences Section 3 (Oral)
Presenter Name: Lydia Kapeller
Title: Validation of the eyeTelemed IOPvet indentation tonometer for use in dogs

History, Political Science & Economics
History, Political Science & Economics Section 1 (Poster)
Presenter Name: Jack Carlson
Title: Toward A Moderate Antislavery Politics: Free Soil Democrats and the Making of the Free Soil Party

History, Political Science & Economics Section 3 (Oral)
Presenter Name: Abbie Barnum
Title: The Role of New York Newspapers in Perpetuating Islamophobic Stereotypes

Humanities

Humanities Section 1 (Oral)
Presenter Name: Berkley Sorrells
Title: Documenting Community: 19th Century Signature Quilts as Material Culture

Humanities Section 2 (Oral)
Presenter Name: Celeste Rubino, Rachel Eyre
Title: Establishing a Multimedia & Archival Hub for the RCAH Center for Poetry

Integrative & Organismal Biology

Integrative & Organismal Biology Section 1 (Poster)
Presenter Name: Heather Sayles
Title: The Influence of Cooperative Breeding Strategies on Reproductive Health in the Meerkat

Integrative & Organismal Biology Section 2 (Poster)
Presenter Name: Daniel Do
Title: Hatching enzyme evolution and expression in spotted gar, a model organism for vertebrate evolutionary developmental genomics

Kinesiology

Kinesiology Section 1 (Poster)
Presenter Name: Albertas Klugas, Nathan Sprick
Title: Body Composition and VO2max of Individuals with and without Anterior Cruciate Ligament Reconstruction

Linguistics, Languages & Speech

Linguistics, Languages & Speech Section 1 (Poster)
Presenter Name: Sarah Knappenberger
Title: The Effect of Priming on Speech Production
**Microbiology, Immunology & Infectious Disease**

Microbiology, Immunology & Infectious Disease Section 1 (Poster)
*Presenter Name:* Krishna Gogineni  
*Title:* Developing RNA interference-based sex sorting system for mosquitoes

Microbiology, Immunology & Infectious Disease Section 2 (Poster)
*Presenter Name:* Dylan Luce  
*Title:* Enterobacter Desiccation Resistance and Persistence on Fomites

**Neuroscience**

Neuroscience Section 1 (Poster)
*Presenter Name:* Olivia Dodson  
*Title:* Investigating the Role of Neuromedin S in the Ventral Tegmental Area in Morphine Behaviors

Neuroscience Section 2 (Poster)
*Presenter Name:* Claire Jones  
*Title:* Identifying the inhibitory circuit elements mediating motor integration in deep layers of somatosensory cortex

Neuroscience Section 3 (Poster)
*Presenter Name:* Toria Fex  
*Title:* Characterizing midbrain dopamine projections to insular cortex in disrupted-in-schizophrenia-1 mice

Neuroscience Section 4 (Poster)
*Presenter Name:* Ariana Zimmerman  
*Title:* Intrinsic properties and synaptic activity of striatal spiny projection neurons in a mouse model of autism

Neuroscience Section 5 (Oral)
*Presenter Name:* Hari Ramakrishnan  
*Title:* Adenosine Receptor Antagonist Reduces Chemotherapy Side Effects in Mice Such as Cisplatin-Induced Kidney Toxicity and Painful Neuropathy

**Nutrition & Food Science**

Nutrition & Food Science Section 1 (Poster)
*Presenter Name:* Shreya Chavva, Meghana Karumuri  
*Title:* Comparison of Antioxidant Content Between Various Supplements utilized during Grass-Finishing Beef on MI complex pasture

Nutrition & Food Science Section 2 (Oral)
*Presenter Name:* Viji Jambunathan  
*Title:* Effects of grass-fed beef suet and liver supplementation on fatty acid profile of chicken eggs
**Physical Sciences**

Physical Sciences Section 1 (Poster)
*Presenter Name*: Josie Anderson  
*Title*: Sediment Characterization of Martian Soil by the Phoenix Mars Lander

Physical Sciences Section 2 (Poster)  
*Presenter Name*: Joseph Noonan  
*Title*: A Multi-Factor Model for the Optical Transmission of Films for the Single Atom Microscope

Physical Sciences Section 3 (Poster)  
*Presenter Name*: Lauren Gizinski  
*Title*: Biokinetic modeling of alpha particle dose from parent decay of inhaled radon-211

Physical Sciences Section 4 (Poster)  
*Presenter Name*: Kirsten Fentzke  
*Title*: Probing the Magmatic Differentiation System of Mt. Kenya - Petrographic constraints from optical and electron beam analyses of crystals

Physical Sciences Section 5 (Oral)  
*Presenter Name*: Mickey Mumby  
*Title*: Understanding Collective Motion Inside a Nucleus

**Plant Sciences**

Plant Sciences Section 1 (Poster)  
*Presenter Name*: Marlana DeClaire  
*Title*: Drought Tolerance and Pathogen Resistance in Transgenic Williams 82 Soybeans

Plant Sciences Section 2 (Poster)  
*Presenter Name*: Lille Cunic  
*Title*: Identifying beneficial microbes in the Switchgrass rhizosphere

**Psychology**

Psychology Section 1 (Poster)  
*Presenter Name*: Kyle Oliver, Frank Dolecki  
*Title*: Speech understanding in difficult listening conditions

Psychology Section 2 (Poster)  
*Presenter Name*: Emma Beaver  
*Title*: Spectrum-Dependent Arousal in a Diurnal Rodent Model
Psychology Section 3 (Poster)
*Presenter Name:* Grace Bonnema, Sydney Logsdon, Tushya Mehta  
*Title:* Narrative Processing of Music: How Culture Influences Our Perception of Music

Psychology Section 4 (Poster)
*Presenter Name:* Anna Forest, Ria Jain, Ayushi Patel, Abby Roberts, Jessica Skaff  
*Title:* Reducing political differences via a closeness-building activity

Psychology Section 5 (Poster)
*Presenter Name:* Jessie Greatorex  
*Title:* Examining the Social-Communication Outcomes for Medicaid Enrolled Children with Autism Spectrum Disorder Partaking in Parent-Mediated Intervention

Psychology Section 6 (Poster)
*Presenter Name:* Anusha Mamidipaka  
*Title:* Contribution of lip reading to speech recognition in complex listening conditions

Psychology Section 7 (Oral)
*Presenter Name:* Gregory Marchal  
*Title:* A Gamble of Life and Death: Ambiguity Aversion, Risk Preferences, and Parental Influenza Vaccination Decisions in Rural America

**Social Science: General**

Social Science: General Section 1 (Poster)
*Presenter Name:* Megan Lambrecht  
*Title:* Agency, Support, and Empowerment of Sorority Women in Response to Sexual Violence

Social Science: General Section 2 (Poster)
*Presenter Name:* Madeline Leppek  
*Title:* Paraeducator Training in Challenging Behavior

Social Science: General Section 3 (Oral)
*Presenter Name:* Joanna Myatt  
*Title:* A Recipe for a More Equitable Restaurant Industry? The Role of Female Chefs in Shaping the Workplace

Social Science: General Section 4 (Oral)
*Presenter Name:* Max Martus  
*Title:* England's Jews Before Expulsion: Despoiling a Diaspora
**Social Work**

Social Work Section 1 (Poster)
*Presenter Name*: Emily Cohen, Ava Fall, Noelle Rager  
*Title*: Making Ends Meet: Differences in Neighborhood Child and Elder Care Resources in Detroit's Ethnic-Racial Communities in the Post-COVID Era

**Visual & Performing Arts**

Visual & Performing Arts Section 1 (Poster)
*Presenter Name*: Maegan Jankowski  
*Title*: The Societal View of Heterosexual Men and Theatre in the United States; A Retrospective From the Twentieth Century Onward

Visual & Performing Arts Section 2 (Oral)
*Presenter Name*: Emma Stoolmaker  
*Title*: By her hand: an investigation of gender and class through the decorative (or fine?) arts in studio practice

Visual & Performing Arts Section 3 (Exhibit)
*Presenter Name*: Aaliyah Buell  
*Title*: The Community Wellbeing Series: Maintaining Community through Empowerment, and Cultural Representation

Visual & Performing Arts Section 4 (Performance)
*Presenter Name*: Alex Vonhof  
*Title*: "ENVIRONMENTS"

**Arts & Humanities (multidisciplinary, virtual)**

Arts & Humanities (multidisciplinary) Section 1 (Virtual Poster)
*Presenter Name*: Nishtha Kakar  
*Title*: Evaluation of Vocal and Lifestyle of Adult's: Impact of Video-Chat Activities

Arts & Humanities (multidisciplinary) Section 2 (Virtual Poster)
*Presenter Name*: Justin Crouch, Katie Denzin, Anel Robinson  
*Title*: Sins of Commission and Omission: Do images in high school history textbooks reflect the historical diversity of the American People?

Arts & Humanities (multidisciplinary) Section 3 (Virtual Poster)
*Presenter Name*: Jennie Boulus  
*Title*: Development of a Coding Scheme to Assess Emotion Conversations between Mothers and Adolescent Typically Developing Siblings of Individuals with Autism Spectrum Disorder
Arts & Humanities (multidisciplinary) Section 4 (Virtual Poster)
**Presenter Name:** Orla Young
**Title:** Different Styles of Gymnastics Practice: Looking at the Effects on Performance & Well-Being

Arts & Humanities (multidisciplinary) Section 5 (Virtual Oral)
**Presenter Name:** Kadrianna Cohen
**Title:** Police Corruption In Jamaica: Little To Zero Accountability

Arts & Humanities (multidisciplinary) Section 6 (Virtual Oral)
**Presenter Name:** Weeam Guetari
**Title:** A Review of the Education of Syrian Refugee Children in America

Arts & Humanities (multidisciplinary) Section 7 (Virtual Oral)
**Presenter Name:** Zoe Rasico
**Title:** Rewriting the Western Story of Islam

Arts & Humanities (multidisciplinary) Section 8 (Virtual Oral)
**Presenter Name:** Hannah Morse
**Title:** Ottoman Empire Millet System

Arts & Humanities (multidisciplinary) Section 9 (Virtual Oral)
**Presenter Name:** Brandon Roberts
**Title:** Ottoman Empire Millet System

Arts & Humanities (multidisciplinary) Section 10 (Virtual Performance)
**Presenter Name:** Hugh Downs
**Title:** Music: An Early Jazz Musician's Journey Into Film Scoring

Arts & Humanities (multidisciplinary) Section 11 (Virtual Oral)
**Presenter Name:** Isabelle Fanning
**Title:** History and testimony in the digital age: studying holocaust survivors (Panel 1C)

**Science & Engineering (multidisciplinary, virtual)**

Science & Engineering (multidisciplinary) Section 1 (Virtual Poster)
**Presenter Name:** Mary Gardella
**Title:** Does light composition impact stress levels of shelter cats?

Science & Engineering (multidisciplinary) Section 2 (Virtual Poster)
**Presenter Name:** Merlinda Sewavi
**Title:** An induced pluripotent stem cell approach to study human post-infarction remodelling and heart regeneration

Science & Engineering (multidisciplinary) Section 3 (Virtual Poster)
**Presenter Name:** Pam Jones
**Title:** Listeriosis drives perturbations in the eicosanoid pathway
Science & Engineering (multidisciplinary) Section 4 (Virtual Poster)
Presenter Name: Sydney Burtovoy
Title: The Power of Pinto Bean Flour

Science & Engineering (multidisciplinary) Section 5 (Virtual Oral)
Presenter Name: Alissa Ball
Title: Biosorption of Heavy Metals by Fungi

Science & Engineering (multidisciplinary) Section 6 (Virtual Oral)
Presenter Name: Eliot Haddad
Title: Consumption of Whole Grain Wheat has Minimal Impact on Human Gut Microbial Diversity