

Message from the President



Dear Student Researchers, Faculty Mentors, and Guests,

What a privilege it is to welcome you to NAU's Undergraduate Symposium as we celebrate its eighth year as a university point of pride. I am especially gratified to know that all of our colleges are represented here today, demonstrating our university-wide commitment to undergraduate experience in research and service learning.

The individual and collaborative projects on display today in the Skydome and duBois Center are shining examples of academic excellence and student success. I'm sure the levels of creativity and innovation are matched only by the energy of the students. It is also important to see disciplines such as art and creative writing occupying their rightful place beside the sciences.

As always, the work of our students and faculty thrives on the support of donors and sponsors, and we are grateful to all of them. I also urge students to remember and acknowledge the support they have received from families and friends, not only for this event, but for all that has led up to it.

I congratulate everyone involved in producing nearly 1,000 posters, presentations, and exhibits, and extend my best wishes to each of the students and their faculty mentors. This is truly a community celebration of a university-wide effort. What a proud day for all of us.

Sincerely,

A handwritten signature in cursive script that reads "Rita Cheng". The ink is dark and the signature is fluid and elegant.

Rita Cheng
President

Message from the Vice President for Research



Dear Students, Faculty Colleagues, and Guests,

Today NAU is celebrating its 8th annual university-wide Undergraduate Symposium which showcases our undergraduate students' efforts in research, scholarship and artistic endeavors. Through the enthusiastic efforts of faculty and student collaborations, this Symposium has grown over the years to now fill the Walkup Skydome. I am excited that NAU is highlighting the diversity of our students' scholarship and creative outcomes under one roof, and I applaud their academic and creative achievements.

Thank you for joining me and the NAU and Flagstaff communities in congratulating these students and wishing for their future success.

Sincerely,

A handwritten signature in cursive script that reads "William Grabe". The ink is dark and the signature is fluid and legible.

William Grabe, Ph.D.
Vice President for Research

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***Search for presenters, titles, and abstracts at the event kiosks
or online at nau.edu/symposium***

Abbreviations

CAL	College of Arts and Letters
CEFNS	College of Engineering, Forestry, and Natural Sciences
COE	College of Education
HHS	College of Health and Human Services
FCB	The W. A. Franke College of Business
SBS	College of Social and Behavioral Sciences
UC	University College

College of Arts and Letters: Special Events for the week of April 19-26



All College of Arts and Letters (CAL) special events for the Undergraduate Symposium listed below are in the Performing/Fine Arts Building (#37) on the NAU campus.

All events are free unless marked "\$admission." Most tickets can be purchased through NAU Central Ticketing or at the door.

Sunday, April 19, 2015: Chamber Orchestra Concert

- 3:00pm - 5:00pm
- Nativity of the Blessed Virgin Mary Church (16 W. Cherry Ave)

Monday, April 20, 2015: ECO Fashion Show

- 6:30pm - 8:30pm
- DuBois Center

Tuesday April 21, Thursday April 23, and Friday April 24, 2015: BFA Show

- 10:00am - 5:00pm
- Beasley Gallery, Performing and Fine Arts Building (#37)

April 22- 28, 2015: NAU Theatre presents "The School for Lies"

In this David Ives adaption of Moliere's *The Misanthrope*, 17th century farce is blended with 21st century vernacular that will leave you dizzy from laughter!

- Wednesday - Saturday, 7:30pm; Sunday, 2:00pm
- Studio Theatre
- \$admission

Friday, April 24, 2015: CAL Oral and Poster Presentations

- Undergraduate Symposium
- J. Lawrence Walkup Skydome

Friday, April 24, 2015: School of Art BFA Exhibition Reception and Scholarship Awards

- 5:00pm - 7:00pm
- Beasley Gallery, Room 216, Performing and Fine Arts Building (#37)

Friday, April 24, 2015: NAU Percussion Ensemble Concert

- 7:30pm
- Ardrey Memorial Auditorium

Saturday, April 25, 2015: Student Wind Chamber Concert

- 10:00am
- Ashurst Hall

Saturday, April 25, 2015: Vocal Jazz Night

- 7:30pm
- Ardrey Memorial Auditorium

Sunday, April 26, 2015: NAU String Chamber Recital

- 7:30pm
- Ashurst Hall

Sunday, April 26, 2015: Spring Festival of Choirs

- 3:00pm
- Ardrey Memorial Auditorium
- \$admission

Hooper Poster Presentations & Reception Special Event: By Invitation Only



The Office for Undergraduate Research & Creative Activity celebrates this year's Hooper Undergraduate Research Award recipients, with special guest, Dr. Henry O. Hooper, retired NAU associate provost for academic affairs and physics professor emeritus.

Wednesday, April 22, 2015 | 6:00pm-7:30pm

Applied Research & Development, Building 56, Atrium

2014-15 Hooper Undergraduate Research Award (HURA) Recipients

- Dylan Barbera: Event Related Potential Correlates of Self/Other Differences (Mentor: Chad Woodruff)
- Rebecca Beers: Paleo-environment Reconstruction and Origins of the Chalk Canyon Formation Ash (Mentor: Nancy Riggs)
- Shelby Burton: Student-Professor Rapport, Perceived Autonomy Support, and Course Outcomes (Mentor: Meliksah Demir)
- Rae Byars: A Geologic Inquiry of Upper Lake Mary's Rising Turbidity Levels, and the Effects on the Reservoir's Water Quality (Mentor: Abe Springer)
- Larrea Cottingham: The Effect of a Stand Replacing Fire on Ectomycorrhizal Fungi Inoculum Potential (Mentor: Catherine Gehring)
- Taran DePaola: Event-Related Desynchronization Correlates of Self-Other Differences (Mentor: Chad Woodruff)
- Daniel DePinte: Effects of Ponderosa Pine Biochar in Arizona's Agricultural Soil: Water Retention, Drought Resistance, and Crop Yields (Mentor: Matthew Bowker)
- Garrett Erickson: Flow Relations of the Hoxworth Springs (Mentor: Abe Springer)
- James Franklin & Ryan Hogan: Ectoparasitism and Vector-Borne Pathogens in Northern Arizona Predator-Prey Cycles: Epizootiological Risk to Reintroduced Black-footed Ferrets (*Mustela nigripes*) (Mentor: Nathan Nieto)
- Chelsey Gardner: Explicit Vocabulary Instruction Embedded in Narrative Intervention (Mentor: Trina Spencer)
- Kaylynn Gray: Developing Positive Transgender Identity: A Qualitative Study of Identity (Mentor: Andrew Walters)
- Caroline Herrera: Objectively Assessing the Efficacy of Kinesio Tape to Reduce Swelling in Anterior Talofibular Sprains (Mentor: Scot Raab)
- Josiah Huggins: Academic Dishonesty as Moderated by Anonymity (Mentor: Nora Dunbar)
- Yordano Jimenez: When is a C-start Not a C-start? Escape Behavior in the English Sole (Mentor: Alice Gibb)
- Hailey Kaus: Injury History Versus Current Fitness Baseline in Female Club Gymnasts (Mentor: Scot Raab)
- Eloisa Lewis: C.S. Peirce, Artificial Intelligence, and Systems of Representation (Mentor: Jeffrey Downard)
- Ben Luginbuhl & Brett Cutler: Investigation of Plant-Derived Carbon Aerogels for Use in Multifunctional EDLCs (Mentor: Cindy Browder)
- Britiana Meucci: A Comprehensive Study of Two Columnar Jointing Locatins to Determine Differences in Rate of Cooling (Mentor: Nancy Riggs)
- Dylan Mills: A New Large Armored Fish from the Devonian (380 Ma) Martin Formation of Mount Elden (Mentor: David Elliot)
- Cedar Mitchell: Using Genetic Fingerprinting to Understand the Source and Dynamics of Human Plague Infections in Madagascar (Mentor: David Wagner)
- Jillian Mondrow & Ella Stephens: Arthropod Pollinators Influence the Pollination Nature of Angiosperms along the C. Hart Merriam (Mentor: Neil Cobb)
- Alden Netto: Seismic Analysis of the San Francisco Peaks (Mentor: Ryan Porter)
- Michael O'Reilly: Using Growth Releases to Identify Disturbance Events in Southwestern Dry Mixed-Conifer (Mentor: Andrew Sánchez Meador)
- Liliana Ortiz: Genetic Variability and Population Structure of Wedge-Tailed Shearwater (Mentor: Russell Benford)
- Inez Pabian: Manipulation of the L-Arginine Pathway by *Toxoplasma gondii* (Mentor: Fernando Monroy)
- Victoria Pocknell: Priming a Behavioral Freeze Response in Humans (Mentor: Michael Alban)
- Megan Saalfeld: Magmatic Processes Revealed by Crystal Texture of Mount Elden, Northern Arizona (Mentor: Carrie Brugger-Schorr)
- Tara Steadman: Using Electrolyte Leakage Measurements and Assess Cold Hardiness in Southwestern White Pines (*Pinus Strobfiformis*) (Mentor: Kristen Waring)
- Justin Wilgus: Seismicity and Tectonics of the West Kaibab Fault Zone, Arizona (Mentor: David Brumbaugh)
- Amy Ziem: Effects of Estrogen on Resistance to Oxidative Stress (Mentor: Tinna Traustadóttir)

MORNING SESSION

Non-poster listings 9:00am-11:00am - Exhibit

Skydome CAL floor

9:00am - 11:00am - Exhibit

Seeing the Portrait - CAL, Art
Elizabeth Schauer

A Painterly Professional - CAL, Art
Kimberly O'Hara

A Moment in Time - CAL, Art
Danielle Mierzwa

Landscape Painting - Honors, Honors
Program
Emily Wisniewski

Skydome COE Table

9:00am - 11:00am - Exhibit

Why We Left - COE, Ethnic Studies
Corrine Jarnagin

Skydome Honors Table

9:00am - 11:00am - Exhibit

**The Struggle of Hierarchy Within
Breaking Bad** - HONORS, Honors Program
Matthew Parrish

Skydome SBS Table

9:00am- 11:00am - Exhibit

Environmental Crime - SBS, Criminology
and Criminal Justice
Katelyn Bednar, Elizabeth Lozano, Victoria
Davis, David Golle, Kyle Grove

Gangs - SBS, Criminology and Criminal
Justice
Morgan Lane, Rayele Sherlock, Kimberlyn
Carovillano, Morgan Nells, Monika Fennell

Gangs Through the Ages - SBS,
Criminology and Criminal Justice
Molly Kitz, Molly Kitz, Kyle Renning, Kelsey
Varner, Ryan Hawkins, Jacob Julian

Skydome Roundtable R1

9:00am-9:25am - Roundtable Discussion
Deaths in Detention Facilities Operated by ICE - SBS, Criminology and Criminal Justice
Jocelyn Reyes

9:30am-9:55am - Roundtable Discussion
NAU Green Office Certification: Collective Efforts for Waste Reduction - CEFNS, Environmental Sciences and Environmental Studies; Environmental Sciences and Environmental Studies
Alexandra Garcia, Matthew Belus, Heather Aaron, Megan Starostecki

10:00am-10:25am - Roundtable Discussion
Public Art: Plastic Bag Ban - UC, University College
Jordan Morales, Wells Jackson

11:00am-11:30am - Roundtable Discussion
Pursuit of the Future Perfect - HONORS, Honors Program
Jonathan Malone, Alex Lacy, Joshua Gutman

Skydome Roundtable R2

9:30am-9:55am - Roundtable Discussion
Creating Democratic Spaces in the College Of Education - COE, Teaching and Learning; Educational Specialties
Anaheed Hill, Thomas Salerno

10:30am-10:55am - Roundtable Discussion
How Diverse are You? - COE, Teaching and Learning; Educational Specialties
Jacqueline Noriega, Tulsi Stransky, Raina Bekis

11:00am-11:30am - Roundtable Discussion
The Future of Human and Animal Synergy - Honors, Honors Program
Madison Kuyper, Lexie Sutcliffe, Ashley Mutchek

Skydome Roundtable R3

9:00am-9:25am - Roundtable Discussion
School Gardens: How to Teach in the Garden - UC, University College
Joey Bogart

10:00am-10:25am - Roundtable Discussion
New Economy NAU ART: Center for Social Innovation and Entrepreneurship - UC, University College
Whitney Salewske

11:00am-11:30am - Roundtable Discussion
CopyCat: The Future of Social Technology - Honors, Honors Program
Shayna King, Derek Curtis, Nia Harris

Skydome Stage A

9:00am-9:20am - Oral Presentation
Zero Net Energy Building - CAL, Art
Hathami Alkhalidi

9:20am-9:40am - Oral Presentation
Patriotism, Common People, and Saboteurs: Alfred Hitchcock's American Pilgrimage in Saboteur (1942) - CAL, Comparative Cultural Studies
Claire Schnucker

9:40am-10:00am - Oral Presentation
Queering Islam: Queer Muslim Identity as Exhibited in Museums - CAL, Comparative Cultural Studies
Justin Williams

10:00am-10:20am - Oral Presentation
American Anti-Japanese Propaganda in the Era of the Second World War - CAL, History
Christina Hack

10:20am-10:40am - Oral Presentation
History and Cinema: Exploring the Lasting Ramifications of the Partition of India - CAL, History
Matthew Waters

10:40am-11:00am - Oral Presentation
Stalin, Stanislavski, and the System: An Unlikely Creative Boom in a Country of Censorship and Shortages - CAL, History
Jennifer Worden

Skydome Stage B

9:00am-10:00am - Oral Presentation
Beyond The Burqa - Honors, Honors Program
Shelby Compton, Desiree Hopkins, Samantha Dowhie

10:00am-11:00am - Performance
The O.K. Corral: Shootin' Down the Myths - Honors, Honors Program
Kayla Olsen, Kaitlyn Welk-Robbins, Trevor Petersen, Grace Gosz, Carl Zapfe, Emily Bowen, Keeley Dietze, Nora Webster, Miranda Mitsis, Celeste Tabares

Skydome Stage C

9:00am-10:00am - Exhibit
The Canyon - Honors, Honors Program
Kayli Chambers, Kyle Larsen, Leah Gavin

The Quirky and Queer: Anarchy and Gay Marriage

10:00am-10:40am - Oral Presentation
A Short Film Detailing Anarchy: A Fictional Account of Slab City - Honors, Honors Program
Karleen King, Cameron Butler, Taylor Garrett, Luke Bruggeman, Alexandra Naidenovich, Chanelle Flori

10:40am-11:00am - Oral Presentation
Marriage: A Queer Institution - Honors, Honors Program
Emma McVeigh

Skydome Stage D

9:00am-10:00am - Oral Presentation
The Quest of Euphoria? - Honors,
Honors Program
Kayla Rutledge, Michael Crutcher, Emily
Powell, Sean Buechel, Darrion Edwards

10:00am-11:00am - Oral Presentation
***So You Think You Know Yourself:
Understanding the Human Mind*** -
Honors, Honors Program
Catherine Crane, Kyle Weiss, Kathryn
Meyers, Zach Kramer, Audrey Sumpter

Skydome Stage E

9:00am-9:15am - Oral Presentation
Traveling Rwanda - COE, Teaching and
Learning; Educational Specialties
Nicole Hyatt

9:15am-9:30am - Oral Presentation
You're Not Alone - COE, Teaching and
Learning; Educational Specialties
Josh Strebe

9:30am-9:45am - Oral Presentation
***What are the Benefits of Medicinal
Marijuana?*** - COE, Teaching and Learning;
Educational Specialties
Andy Tzinberg, Alexis Senkow

9:45am-10:00am - Oral Presentation
The Shifting Navajo Nation - COE,
Teaching and Learning; Educational
Specialties
Tyler Eder

10:00am-10:15am - Oral Presentation
The Revitalization of Yup'ik culture -
COE, Ethnic Studies
Connor Hellings

10:15am-10:30am - Oral Presentation
***Story of Self, Story of Us, Story of Now:
High Functioning Autism in Schools*** -
COE, Teaching and Learning; Educational
Specialties
Heidi Schumacher

10:30am-11:00am - Oral Presentation
***Communities Engaging Cultural
Knowledge*** - COE, Teaching and Learning;
Educational Specialties
Kristen Strauss, Janay Wiggins,
Anaheed Hill, Darrell Marks, Camille White,
Jazmin Pedroza

duBois Agassiz Room

8:55am-9:20am - Oral Presentation
Sun Valley Water & Wastewater Project -
CEFNS, Civil and Environmental Engineering
Sara Bateman, Mohammad Alsbah,
Adam Cordero, Mary Strong

9:20am-9:45am - Oral Presentation
2015 ASCE Steel Bridge Design Project -
CEFNS, Civil and Environmental Engineering
Lauren Stadelmeier, Noel Cruz, Sarah
Higgins, Wendy Clark

9:45am-10:10am - Oral Presentation
***Adsorptive Capacity of Orange Peels and
Zero Valent Iron Filings*** - CEFNS, Civil and
Environmental Engineering
Makenzi Beltran, Hussain Alkandari,
Abdulaziz Alsaraf, Jiahao Zhang

10:20am-10:45am - Oral Presentation
2015 ASCE Concrete Canoe - CEFNS,
Civil and Environmental Engineering
Cynthia Alvarez, Kristin Van Sciver,
Jeremy DeGeyter, Ramon Aguilar,
Matthew Snyder

10:45am-11:10am - Oral Presentation
Informal Recreational Shooting Ranges and Lead Contamination - CEFNS, Civil and Environmental Engineering
Kamran Khan, Shane Klotzman, Abdullah Ashkanani

11:10am-11:35am - Oral Presentation
Sinclair Wash Restoration Project - CEFNS, Civil and Environmental Engineering
Leah Richardson, Hasan Mohammad, William King, Holly Swenson

duBois Festival Room

8:55am-9:20am - Oral Presentation
Interactive Point Visualization - CEFNS, Electrical and Computer Engineering
Tim Velgos, Erin Bailey, Curtis Bilbrey, Alex Farmer

9:20am-9:45am - Oral Presentation
Automatic Syllabification - CEFNS, Electrical and Computer Engineering
Salvatore Bottiglieri, Michael Albanese, Drew McDaniel, Trent Cooper, Adam Thomas

9:45am-10:10am - Oral Presentation
SciViewer - CEFNS, Electrical and Computer Engineering
Alex Lanza, Austin Sanders, Leah Kalush, Justin Liddicoat

10:20am-10:45am - Oral Presentation
Increasing Taxonomic Resolution of Microbial Communities - CEFNS, Electrical and Computer Engineering
Karthik Handady, Ian Humphrey, Cate Holcomb, Ryan Buckingham, Crystal Hepp

10:45am-11:10am - Oral Presentation
Implant Battery Charger GUI Research & Development - CEFNS, Electrical and Computer Engineering
Robert Winkler, Nancy McCollough, Kevin Meyer, Tomas Zukowski

11:10am-11:35am - Oral Presentation
Net Solar Charger - CEFNS, Electrical and Computer Engineering
Florent Binyom, Muqrin Alsawa, Orion Tom, Ziyang Xiao, Fatemah Alsayegh

duBois Fremont Room

8:55am-9:20am - Oral Presentation
AquaScooter - CEFNS, Mechanical Engineering
Corey Jones, Meagan Morrison, Sydney Kemper, Tyler Furuya, Troy Ballard

9:20am-9:45am - Oral Presentation
Aquascooter 2.0 - CEFNS, Mechanical Engineering
Elizabeth Tyler, Dylan Cannon, Darin Gilliam, Eli Palomares, Jiyang Wang, Tyler Winston

9:45am-10:10am - Oral Presentation
NASA Human Exploration Rover - CEFNS, Mechanical Engineering
Kyle Carpentier, Josh DeBenedetto, Joey Annolino, Greg Dowske, Joseph Andaya, Wilson January

10:20am-10:45am - Oral Presentation
Micro Wind Turbine - CEFNS, Mechanical Engineering
Jorge Vielma, Hussain Mohammad, Alex Hunter, Hengming Dai, Alyosha Sandigo

10:45am-11:10am - Oral Presentation
2nd Generation Charging Station - CEFNS, Mechanical Engineering
Ruben Villezcas, Jasem Alhabshy, Riyadh Alzahrani, Brandon Gabrelcik, Ryan Murphy

11:10am-11:35am - Oral Presentation
Parabolic Trough - Tracking and Energy Extraction - CEFNS, Mechanical Engineering
Jairo Rivera-Mendez, Saad Almonneay, Robert Blaskey, Daniel Chief, Christopher Mesko, Jacob Seitzer

duBois Meadows Room

8:30am-8:42am - Oral Presentation

Camp Colton: The Legacy of Interdisciplinary Environmental Education in Flagstaff, AZ - CEFNS, Environmental Sciences and Environmental Studies
Nicole Ortega

8:42am-8:54am - Oral Presentation

Whipstone Farm- The business, the science, the passion - CEFNS, Environmental Sciences and Environmental Studies
Brett Ireland

8:54am-9:06am - Oral Presentation

Environmental Education at The Arboretum of Flagstaff - CEFNS, Environmental Sciences and Environmental Studies
Carter Doud

9:06am-9:18am - Oral Presentation

Friends of Flagstaffs Future Internship - CEFNS, Environmental Sciences and Environmental Studies
Dezirea Acker

9:18am-9:30am - Oral Presentation

Flagstaff EcoRanch Fall Internship 2014: Tangible, Local and Sustainable Solutions. - CEFNS, Environmental Sciences and Environmental Studies
John Christ

9:30am-9:42am - Oral Presentation

Is Conventional Landscaping More Efficient Than Low Impact Landscaping? - CEFNS, Environmental Sciences and Environmental Studies
Bryan Jagiello

10:06am-10:18am - Oral Presentation

Developing BioScience Education Enrichment Kits for Educators in Flagstaff, AZ - CEFNS, Environmental Sciences and Environmental Studies
Melissa Fisher

10:18am-10:30am - Oral Presentation

Spreading awareness on air quality while introducing alternatives to current EPA opacity standards - CEFNS, Environmental Sciences and Environmental Studies
Randi Ryan

10:30am-10:42am - Oral Presentation

Sustainability in Coconino County: An Inside Perspective - CEFNS, Environmental Sciences and Environmental Studies
Rachel Heydorn

10:42am-10:54am - Oral Presentation

Planting the Seed for a Sustainable Future in Flagstaff, AZ - CEFNS, Environmental Sciences and Environmental Studies
Alyse Lerager

11:00am-11:12am - Oral Presentation

Food Sustainability: Siena's Various Food Operations and Connections to Operations in Arizona, United States - CEFNS, Environmental Sciences and Environmental Studies
Claire Silvernale

11:24am-11:36am - Oral Presentation

Demand and Proposed Methods for Local Food Production on Saipan - CEFNS, Environmental Sciences and Environmental Studies
Bobbi Wilson, Tyrell Pauling, Erik Van Der Maas

duBois Room A

8:30am-8:42am - Oral Presentation

Paleoecology of the Chuska Mountain Region: A Study of Sediment Cores - CEFNS, Environmental Sciences and Environmental Studies
Benjamin Pelletier

8:54am-9:06am - Oral Presentation

The Pathway to Owls in the Coconino National Forest - CEFNS, Environmental Sciences and Environmental Studies
Christy Harvey, Loren LeSueur

9:18am–9:30am - Oral Presentation
Patterns of Arbuscular Mycorrhizal Fungal Communities in the Serengeti National Park - CEFNS, Environmental Sciences and Environmental Studies
Sara Krznarich, Anita Antoninka, Bo Stevens, Nancy Johnson

9:30am-9:42am - Oral Presentation
Defecation, Realization, Restoration: The Oak Creek Watershe Council (OCWC)
- CEFNS, Environmental Sciences and Environmental Studies
Dohna Bicoy

9:54am-10:06am - Oral Presentation
The Presence of Non-native Crayfish and their Effects on the Sonora Mud Turtle in Central Arizona - CEFNS, Environmental Sciences and Environmental Studies
Solan Watts, Charles Drost

10:06am-10:18am - Oral Presentation
Southwest Riparian Habitat and Tamarisk Leaf Beetle Introduction - CEFNS, Environmental Sciences and Environmental Studies
Trevor Glynn

10:18am-10:30am - Oral Presentation
Internship on the Range: Where Managing Cattle and Water Meet - CEFNS, Environmental Sciences and Environmental Studies
Traci Swift

10:30am-10:42am - Oral Presentation
Electrofishing: Protecting the Endangered
- CEFNS, Environmental Sciences and Environmental Studies
Daniel Kimball

10:42am-10:54am - Oral Presentation
Assessing Energy Usage at Northern Arizona University with Visual Interactive Technology - CEFNS, Environmental Sciences and Environmental Studies
Katie Cloud

duBois Southwest Room

8:55am-9:20am - Oral Presentation
NASA Radiation Absorption in Tissue Samples: Measurement of Radiation Flux - CEFNS, Electrical and Computer Engineering
Keith Caldwell, Trevor LaBanz, Austin Rhodes, Josiah Sellstrom, Katherine DeFonce

9:45am-10:10am - Oral Presentation
Child Mobility Project: Learning Through Assisted Movement - CEFNS, Electrical and Computer Engineering
Jessica Randolph, Jessica Randolph, Kohlton Gray, Brad Turcott, Dale Mongeau, Brian Gilpin, Brendan Jacobs

10:20am-10:45am - Oral Presentation
Developing an Alternative Powered Mobility Device for Disabled Children - CEFNS, Mechanical Engineering
Sarah Hanson, Marissa Brzozowy, Justin Mully, Nabeal Sunna

10:45am-11:10am - Oral Presentation
Preventing Cattle Disease: A Lesoit, Tanzania Project - CEFNS, Civil Engineering and Environmental Engineering
Nathan Ensley, Diane Buzzard, Blakeley Matthews, Carter Vickers, Clayton Anderson, Luke Jordan

Skydome floor: Posters (9:00am-11:00am)

CAL - Comparative Cultural Studies

Political Propaganda in Islamic Pilgrimage Architecture

Jasmine Barber-Winter - Display board [126A]

Pilgrimage and Sacred Space in Film: Dogma

Maia Cassidy - Display board [126B]

Modern Influence on Pilgrimage and Sacred Spaces

Jonathan Hart - Display board [126C]

Pilgrimage and Contested Space in Religious and Secular Works of Art

Emily Lawhead - Display board [127A]

Through the Eyes of Youth: Life and Death in the Bedzin Ghetto

Michael Woody, Chloe Lira, Sarah Carpenter, Meaghan Scott, Amanda Williamson, Aryn Hudak, Jenna Wright, Taylor Chesley - Display board [129B]

CAL - Interior Design

From Silo to Prepper's Retreat

Amanda Hathaway - Display board [119A]

Women's Sanctuary: Designing the Ultimate Women's Shelter Facility

Hannan AL-Kharashi - Display board [119C]

The Student Avenues

Zein Atout - Display board [120A]

Gender and the Public Restroom

Briana Bohannon - Display board [120C]

Rabat Moroccan Restaurant - Converting a Dance Hall into a Restaurant

Sarah Clemens - Display board [121A]

Aging in Place - Home Safety for Seniors

Ting Ting Deng - Display board [121C]

Urban Renewal: Designing Family Friendly Homes for a Low Income Community

Danelle Hernandez - Display board [122A]

Behavioral Health Design

Brianna Kirkeeng - Display board [122C]

Creating a Home Away from Home: A Temporary/Transitional Shelter for Families

Griselda Lopez-Garay - Display board [123A]

An Innovative Design for Fitness

Kimberly O'Hara - Display board [123C]

Coming Home from War: Designing a PTSD Treatment Center for Our Veterans

Gabrielle Selna - Display board [124A]

Generation Berlin

Andrea Taylor - Display board [124C]

Trinity Recovery Center

Julie Villotti - Display board [125A]

Designing for the Millennial Generation

Lyndsey Zamora - Display board [125C]

CAL - Global Languages and Cultures

Hispanic Authors in the United States

Emily Smith - Display board [129D]

Type 2 Diabetes Mellitus Described in the Navajo Language

Kyrstie Lauing - Display board [130A]

Naamu Xunuta School of Music

Andrea Luque - Display board [130C]

CAL - Philosophy

C.S. Peirce, Artificial Intelligence, and Systems of Representation

Eloisa Lewis - Display board [130D]

CEFNS - Biological Sciences

Do Climate and Elevation Affect Fly Pollinator Morphology and Behavior?

Ryan Trzcinski - Display board [9C]

Using Genetic Fingerprinting to Understand the Source and Dynamics of Human Plague Infections in Madagascar

Cedar Mitchell, Voahangy Andrianaivoarimanana, Dawn Birdsell, Minoarisoa Rajerison, Paul Keim, Dave Wagner - Display board [17A]

Characterization of the antibody-mediated immune response in patients infected with *Burkholderia pseudomallei*

Lauren Pristo, Karen Hernandez, Christopher Allender, Heidie Hornstra O'Neill, Bart J. Currie, Joseph D. Busch, Erik Settles, Jinhee Yi, Paul Keim - Display board [17B]

Genetic Variability and Population Structure of Wedge-Tailed Shearwater;

Liliana Ortiz, Russell Benford, Nashelly Meneses, Joseph Busch - Display board [18A]

The Importance of Biogeography in Determining Species Response to Climate Change

Caitlin Chapman - Display board [18B]

Kinematics and Back Packs

Alyssa Ortiz, Cassidy Crews - Display board [18C]

Flesh Fly Pupal Weight Predicts Viability

Jeffrey Baranowski, Shay Allred - Display board [18D]

Effect of Estrogen on Resistance to Oxidative Stress

Amy Ziems, Aaron J. Done, Michael Newell, Tinna Traustadottir - Display board [12A]

Identifying *Brucella* Species Causing Human Disease in Turkey

Brittany Bayer, Dawn Birdsell, Jeff Foster, Faith Walker, Paul Keim, David Wagner, Yasemin Ozsurekci, Selcuk Kilic - Display board [12B]

Understanding the Persistence of Plague in a Highly Active Focus in New Mexico

Rachel Meyer, Carina Hall, Heather Centner, Jason Sahl, Rebecca Coleman, Amy Vogler, Jeannine Petersen, Paul Keim, David Wagner - Display board [12C]

Comparison of *Ohi'a* Tree Genotypes on Old Versus New Lava Soils in Hawai'i

Lindsay C. Sidak-Loftis, Liam Mueller, Christian Giardina, Joseph K. Bailey, Jennifer Schweitzer, Nathan E. Stone, Joseph D. Busch, David Wagner - Display board [12D]

Intensity of Postcopulatory Sexual Selection in the Ectoparasitic Pea Crab, *Dissodactylus primitivus* (Brachyura: Pinnotheridae)

Robert Prather, Stephen Shuster - Display board [13A]

COI Sequencing of an Undescribed Leech Species Found at Montezuma Well, Arizona

Jamal Wells, Adam J Vazquez, Rebecca Beresic-Perrins, Kelsey Banister, Isabel Moya Gonzalez, Theresa Rizza, Stephen M. Shuster - Display board [13B]

Measuring Humoral Immunity Over the Course of an Infection Using Surface Plasmon Resonance

Austin Shannon, Mitch Keener, Mukoma Simpanya, Joseph Busch, Fernando Monroy, Richard Bowen, David AuCoin, Pandit S.G., Paul S. Keim - Display board [13C]

Techniques for Identifying Individual Skunks Based on Pelage Patterns

Dylan Ray, Tad Theimer - Display board [13D]

Reconstruction of a Caiman Skeleton

Tim Fox, Sarah Nowak - Display board [14A]

Coxiella: Potential Transmission Across the Livestock-Wildlife Interface

Cherae Bilagody, Ariel Porty, Sonora Olivas, Emily Kaufman, Hiedie Hornstra, Albrecht Schulte-Hostedde, Talima Pearson - Display board [14B]

Exposure to Environmentally Relevant Arsenic Levels Affects Estrogen Sensitive Tissues in an Adult Vertebrate.

Jonathan Grunwald, Stephan Ramos - Display board [14C]

Microbial Floras between Species of Leeches in Montezuma Well

Chris Lancaster, Joshua Carmen - Display board [14D]

Electrospinning Proteins as a Method to Create Customizable Scaffolds for Tissue Engineering Applications

Jordan Muller, Robert Kellar, Robert Diller - Display board [15A]

Does the Morphology of the Vertebral Elements Influence Escape Response Timing and Displacement in Bony Fishes?

Alexander Finden, Michael Minicozzi, Alice Gibb - Display board [15B]

Ultrastructural Morphology of Borrelia burgdorferi Viruses

Felipe Daniel Cardoso, Kylie Sage, Nathan Nieto - Display board [15C]

Prevalence of Rickettsia spp. the Causative Agent of Rocky Mountain Spotted Fever in Arizona

Alma Solis, Joshua Calvano, Adam Pilkington, Kathleen Slocum, Nathan C. Nieto - Display board [15D]

When is a C-start Not a C-start? Escape Behavior in the English Sole (Parophrys vetulus)

Yordano Jimenez, Alice Gibb, Ian MacDonald - Display board [16A]

A Comparison of Student Performance and Experiences in a Traditional Versus 'Flipped' Classroom (BIO 240)

Jocelyn Garcia, Alison Adam - Display board [16B]

A Decade of Increased Temperature Affects Soil Fungal Communities

Matthew Belus - Display board [16C]

Mechanical Characterization of Freshly Excised and Decellularized Murine Integument

Ryan Geier - Display board [16D]

A Comparison of Plethysmography and Helium Dilution in the Measurement of Functional Residual Capacity in Humans

Amanda R. Barnes, Michelle J. Lee, J. Richard Coast - Display board [17C]

Seasonality Effects on Pollinator Communities Along an Elevation Gradient

Paulo R. Silva, Lindsie M. McCabe, Neil S. Cobb - Display board [17D]

CEFNS - Chemistry and Biochemistry

Investigation of Plant-Derived Carbon Aerogels for Use in Multifunctional EDLCs

Brett Cutler, Benjamin Luginbuhl - Display board [27A]

Uranium and Arsenic Contamination in Grasses from Leupp, Arizona

Mackenzie Simmonds - Display board [25A]

A sea urchin's insight into science: Synthesis of naphthoquinone natural products

Thomas Haden, Samantha Kruse, Loren Reichfeld - Display board [26A]

Statistical Analysis of Uranium Exposure of Sheep Near Abandoned Mines

Joshua Froyum - Display board [26C]

Oxime Preparation for the Production of Isoxazoline Derived Bacterial Growth Inhibitors

Bradley Marsh, Joshua Ellsworth - Display board [27C]

CEFNS - Civil Engineering, Construction Management, and Environmental Engineering

Kendrick Street Bicycle Boulevard Design

Christopher Sobie, Pierce-Jon McKelvey, Stephen Hirte, Yousef Alkandari - Display board [10A]

Vulture Mine Tailings

Audrey Lang, Nicolas Boon, Nicole Stanczak - Display board [11A]

Preventing Wrong-way Car Accidents in Arizona

Andrea Goodwin - Display board [11B]

Separation of Oil from Water - H₂Oleum

Daniel Pardo, Mahdi Mohammad, Christina Holt, Ali Hasan - Display board [11C]

Channel Stabilization Design for Summit Homeowner

Eric Carrasco, Fatemah Husain, Hamad Alajmi - Display board [11D]

CEFNS - Electrical and Computer Engineering

Repeat-Accumulate Codes with Modified Iterative Decoding Algorithms

Leonard Peshlakai - Display board [10B]

Wildlife Telemetry Drone

Trevor Petersen, Willem Arjana, Christopher Gass, Stephen Kuluris, Reejay Martinez, Alexander Moore, Leonard Peshlakai, Lucas Philipsen, Dylan Steyer - Display board [9A]

Space Radiation Detection Imaging System

Jacob King, Ricardo Peterson, David Keene, Serena Saucedo, Brandon Shipman - Display board [9B]

Mother Road Brewing Company Sales Dashboard

Veronika Alves, Andrew Alonis, Shariq Jamil, Jason Travis - Display board [9D]

Clinical Pathways Management and Simulation

Christopher Heiser, Eduardo Iniguez, Jordan Harris - Display board [10C]

Planif-i: Itinerary Creation Web Application

Lane Fujikado, Mark Thompson, Sarah Kehoe, Mohammad Al-Otaibi - Display board [10D]

CEFNS - Environmental Sciences and Environmental Studies

FeederWatch Citizen Science Project at Northern Arizona University's Southwest Forest Science Complex

Kendle Webster, Sidney Michl, Philip Minette - Display board [6B]

Environmental Education: Reaching Youth in Elementary Schools

Taylor Landy, Alex Gilmore, Rebecca Baracco - Display board [7B]

Project FeederWatch

Ian Smith, Jake Cowin, Corey Mueller - Display board [7C]

Remote sensing analysis of an invasive plant in the Glen Canyon

Rene Horne, Temuulen Sankey - Display board [7D]

Sticking to the 200-mile radius; Local Eating in Flagstaff, AZ

Samantha Davidson, Lily Styrmoie, Andrew Johnson, Crystal Rolinger - Display board [8A]

Locomotor behaviors exhibited by California grunion (*Leuresthes tenuis*) during spawning runs on California beaches vary with environmental conditions

Andrew Johnson, Clinton Moran, Alice Gibb, Kathy Dickson - Display board [8B]

Feeding the Birds: A Feeder Watch Project

Melanie Glessing, Elizabeth Olson, Emmett Tsosie - Display board [8C]

Reconstructing Past Environments to Understand Human Land Use: Paleocology of Montezuma Well, Arizona

Emmett O. Tsosie, R.S. Anderson - Display board [8D]

Snow Cover Estimates Using Landsat Satellite Images

Mariah Ashley, Jason McVay, Jonathon Donald, Temuulen Sankey - Display board [6A]

Molecular Identification of a Lepidopteran Herbivore on a Critically Endangered Tree

Melissa-Ann Ares, Russell Benford, Nashelly Meneses - Display board [6C]

Dark Sky Meter: Measuring Night Sky Light Pollution in Flagstaff, Arizona

Sita Stanfield, Catherine Alex Smolenski, Jennifer Blanks - Display board [7A]

CEFNS - Forestry

Effects of Ponderosa Pine Biochar in Arizona's agricultural soil: water retention, drought resistance, and crop yields

Daniel DePinte - Display board [19A]

Comparing Metabolic Rates of Native Chubs Species and Non-Native Fish Species of Arizona

Harlan Tso, Matthew O'Neill - Display board [19C]

Do Mature Biocrusts Support More Diverse Microarthropod Communities?

Laura Brown, Anita Antoninka, Matt Bowker - Display board [20D]

CEFNS - Geology

Paleo-environment Reconstruction and Origins of the Chalk Canyon Formation Ash, Central Arizona

Rebecca Beers - Display board [23A]

A Geologic Inquiry of Upper Lake Mary's Rising Turbidity Levels, and the Effects on the Reservoir's Water Quality

Rae Byars - Display board [23C]

Magmatic processes revealed by crystal textures of Elden Mountain lava dome, northern Arizona

Megan Saalfeld - Display board [24A]

Mantle Flow Beneath Central Alaska

Samuel Levy - Display board [24C]

Seismicity and Tectonics of the West Kaibab Fault Zone, AZ

Justin Wilgus, David Brumbaugh - Display board [25C]

CEFNS - Green Fund

The Global Peace and Tolerance Garden at the New International Pavilion

Dylan Rust, Leah Manak - Display board [1A]

Student Attendance and Experiences at 2014 Association for the Advancement of Sustainability in Higher Education

Cassandra Leone, Kelsey Hackett, Alana Weber, Ariana Tyler - Display board [2A]

CEFNS - Mathematics and Statistics

Cycles in various nonlinear, age-structured population models

Melissa Theobald - Display board [22A]

The Unimodular Determinant Spectrum Problem

Wilson Lough - Display board [22C]

CEFNS - Mechanical Engineering

Flexible Maintenance Calendar

Kyle Granchelli, Duke Ayers, Ryan Dooley, Kristopher Bullins, Jarrin Oishi - Display board [1C]

Horizontal Test Stand Rotation Mechanism

Nicholas Garcia, Mary Begay, Brett Booen, Calvin Boothe, James Ellis - Display board [2C]

Injection Molded Silicone Mock Vessels for In-Vitro Testing of VIABAHN Endoprostheses

Samantha Nickerson, Ryan Geier, Jingyun Chen, Kirstin Martin, Justin Paothatat, Ryan Smith - Display board [3D]

SAE Mini Baja

Ricardo Inzunza, Ahmad Alnattar, Zane Cross, Kyle Egan, Nick Garry, Neil Gehr, Trevor Hochhaus, Brandon Janca, Matthew Legg, Ryan Worden - Display board [6D]

Mobile Computer Cart

Trevor Scott, Mohammed Aldosari, Abdulrahman Alhamdi, Joel Asirsan, Samuel Martin - Display board [4D]

Mechanical Paper Shredder

Kendall Meyer, Sultan Alshahrani, Ryan Baloo, Mohammad Molani - Display board [5B]

SAE Aero Design (Micro)

Ryan Randazzo, Jeffrey Chambers, Brian Jew, Kody Kirchner, Max Schwartz, Erin Valentine - Display board [4B]

CEFNS - Physics and Astronomy

Heating Models of Tiger Stripes on Enceladus

Daniel Raggio, Oleg Abramov - Display board [21A]

Star Formation in Interacting Galaxies

Ian Beagles - Display board [21C]

LGBTQ Coming Out

Alyssa Gersbach - Display board [50B]

COE - Teaching and Learning; Educational Specialties; Educational Foundations

LGBTQ Coming Out

Alyssa Gersbach - Display board [50B]

Maintaining the Momentum: TASH@NAU

KarenAnn Mancha, Kristen Harris, Chantelle Chandler, Madeleine Krull, Rachel Casey - Display board [50D]

How Loneliness Impacts the Lives of Individuals with an Intellectual Disability

Amber Farley - Display board [51B]
Implementation of Universal Design in the Classroom
Yasmin Khatoun - Display board [51D]

Indigenous Culture and Knowledge in the College of Arts and Letters

Tyler Bean - Display board [52B]

Native American Students and Public School System Curriculum

Morgan Guild - Display board [52D]

Students in the Special Olympics

Breana Morris - Display board [53B]

Indigenous Cultural Understandings at NAU

Wyatt Oden, Tristan Parkinson, Wyatt Oden - Display board [53D]

The Growth from K-12

Alexis Palmer - Display board [54B]

What's Engagement Got to Do with it? : Going Beyond Classroom Management

Abigail Mapes, Abigail Mapes, Vanessa Karina Flores, Chelsea Schoech - Display board [54D]

Fighting for Inclusion

Kirsten Weis, Nathan Curnow - Display board [55B]

HHS - Communication Sciences and Disorders

The Correlation of Pausing and Child Vocalizations Between Parents and Children

AnaClara Rice - Display board [41A]

HHS - Dental Hygiene

Global Interdisciplinary Project: Mainpat, India

Danica Cusack, Haylee McElroy, Jennifer Girvin, Caitlynn Tompsett - Display board [41B]

Clinical and Self-Perceived Oral Health of Older Adult Patients

Verity Denham, Lundon Hatcher, Jennifer Girvin, Hope Spreadbury, Amber Jacobs - Display board [41C]

The Public's Perception of the Dental Team's Preparations and Responsibilities

Annaliese Gastreich, Jadwa Alsulami, November Alvarado, Revan Dawood - Display board [41D]

Continuing Education Course for Nurse Practitioners on the Application of Fluoride in Their Practice to Prevent Early Childhood Caries.

Candice Marissa Matthews-Penrod, Kourtney Guzman, Danica Cusack, Mira Angle - Display board [42A]

Interprofessional Medical Care

Haylee McElroy, Haylee McElroy, Jason Leininger, Amber Clark, Angie Salazar - Display board [42B]

Glass Ionomer Sealants: Does Conditioner Use Improve Retention Rates?

Andrea Nemeth, Michelle Arbagey - Display board [42C]

Dental Referral Compliance and Dental Caries Knowledge Amongst Caregivers of Children Involved in a School-Based Oral Health Program

Menith Nunez, Joey Mackenzie, Menith Nunez - Display board [42D]

Do NAU Students Know How To Prevent Tooth Decay?

Stevie Stewart, Caitlynn Tompsett, Wendy Millar - Display board [43A]

The Relationship Between the Oral Health Literacy of Parents/Caregivers and the Incidence/Severity of Childhood Decay in School-Aged Children

Kortney Westerlund, Julia Conway, Anita Abers, Kathleen Heidt - Display board [43B]

HHS - Health Sciences

Articulation Progress in Children with Combined Repaired Maxillofacial Abnormalities.

Emma Drehobl - Display board [43C]

American Indians, Renal Failure and The Plant Based Diet: Plants Are Friends... and Food

Jacqueline Brown - Display board [43D]

Malignant Hyperthermia: A Case Study of a High School Football Player

Chelsey Baca - Display board [44A]

Injury History Versus Current Fitness Baseline in Female Club Gymnasts

Hailey Kaus - Display board [44B]

The Best Care for Cystic Fibrosis in Athletics

Derick Lehman - Display board [44C]

The Effects of Scoliosis on Young Athletes

Megan Marbach - Display board [44D]

Costochondritis: A Case Study

Elisabeth Morcom - Display board [45A]

Platelet Rich Plasma and its Healing Effects on Tendinopathies

Stephanie Vermillion - Display board [45B]

Educating Post-Exercise Nutrition

Taylor Tegtmeyer, Anthony Santos, Hannah Simpson, Bianca Rojas - Display board [45C]

Social Seniors

Michael Bailey, Sara Hair, Shelli Kahler, Tosha Sanchez - Display board [45D]

Mindful Eating

Amber Baker, Desiree Cody - Display board [46A]

Summit High School Nutrition Program

Jaze Butler, Dana Hughes, Antoinette Wilson - Display board [46B]

Smoke Alarm Safety

Tyler Carter, John Tomazin - Display board [46C]

Flagstaff Fun Fitness at the Boys & Girls Club

Stephanie Gillooly, Giovanna Picarella, Ashley Baker - Display board [46D]

Healthy Mom, Healthy Baby

Lauren Justus, Darriel Banks, Sydney Berner, Shalyn Maltos, Karina Herrera - Display board [47A]

Anytime Fitness

Laura Lim, Anthony Troftgruben, Casey Jahn, Ekaterina Melkozernova - Display board [47B]

Nutrition Intervention with Fit Kids in Title I Flagstaff Public School

Mara Trethaway, Jill Sawyer, Riley O'Brien - Display board [47C]

Shake it Up at Summit

Ariana Tyler, Griselda Santos, Jessica Javier - Display board [47D]

HHS - Nursing

Diabetes Prevention, Education and Management Through Traditional American Indian Wellness

Sean Paul Begau - Display board [48A]

Reducing Sleep Disturbances in the Hospital Setting to Promote Healing

Alejandro Gonzalez, Johnelle Hoskie, Stephenie Nechvtal, Taylor Brown - Display board [48B]

HHS - Physical Therapy and Athletic Training

The Difference in Lower Extremity Injury Rates When Played on Natural Grass Compared to Third Generation Artificial Turf

Kayla Pearce - Display board [48C]

Objectively Assessing the Efficacy of Kinesio Tape to Reduce Swelling in Anterior Talofibular Sprains

Caroline Herrera - Display board [48D]

S-100B Used as a Tool for Concussion Diagnosis: A Review of Literature

Ben Kmetz - Display board [49A]

Psychological Aspect Of Athletic Training: A Literature Review

Cecilie Pirronello - Display board [49B]

Treatment of pain in Osteoarthritic patients: A Review of Literature

Tessa Powell - Display board [49C]

Honors - Honors Program

Breaking Bad Meth in the Human Body

Sierra Sullivan, Tarah Stroub - Display board [105A]

The Morality of Breaking Bad

Nathan Ashlock - Display board [105B]

Breaking Racism: Analysis of Portrayal of Minorities in Breaking Bad

Joseangel Gonzalez - Display board [105C]

Christianity in the Amoral Breaking Bad

Alaine Hernandez - Display board [105D]

Breaking Breaking Bad

Michael Moghadasnia, George Aubrey, Lauren L'Ecuyer, Alexandra Spotts - Display board [106A]

Breaking Bad and the Wolf of Wall Street

Jack Poupore - Display board [106B]

Misogynistic Language of Breaking Bad

Michael Ramirez - Display board [106C]

The Role of Misogyny in Breaking Bad

Hannah Lillie - Display board [106D]

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Savannah Dotterman - Display board [107A]

Disney in Government

Christina Andrews - Display board [107B]

Societal Influence on Disney Animated Films

Patricia Biasong - Display board [107C]

The Truth Behind the Fairy Tale

Kayla Casey - Display board [107D]

Psychology of Color in Disney Films

Jennifer Genung - Display board [108A]

Disney's Game of Monopoly

Arthur Gibson - Display board [108B]

Disney Corporation in a Post 9/11 World

Orianna Hernandez - Display board [108C]

Love and Gender by Disney

Sloane Koogle - Display board [108D]

The Disney Effect

Teoni Kosters - Display board [109A]

The Sound of Disney

Leslie Lerma - Display board [109B]

Heroes, villains, and Disney

Jenn McDonnal - Display board [109C]

Environmentalism in Disney Film

Jaclyn Nishihira - Display board [109D]

Race in Disney's Pocahontas

Monique Rouhani - Display board [110A]

Arabic Disney

Max Toubman - Display board [110B]

California Adventure: Disney's Next Mousetrap

Michael Smith - Display board [110C]

The Portrayal of Psychotropic Drugs in Walt Disney Animated Classics Canon

Kimberly McComb - Display board [Honors EASEL]

The History and Impacts of Tourism

Kaitlin Donnelly - Display board [62A]

Archeology of Sexuality

MacKenzie King - Display board [72D]

Inhospitality: Do the Homeless Need Rescuing from Missions?

Nicholas Fisher, Caity Bishop,
Brittini Howard, Ann Richardson - Display board [62B]

Maendeleo: Modern developments in Africa

Faith Chege - Display board [62C]

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Ehren Keltz - Display board [62D]

The Correlation of Religion and Witchcraft in Africa

Maeghan Goldman - Display board [63A]

Witchcraft in Africa

Kaitlyn Quinn - Display board [63B]

Genders Differentiation

Rachel Segal - Display board [63C]

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Javonte Simmons, Matthew Montero,
Patrick Curtin - Display board [63D]

Gender Roles: A Learned and Socially Constructed Concept

Alisha Stalley - Display board [64A]

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Michelle Aguayo - Display board [64B]

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Savannah Brown - Display board [64C]

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Derian Celaya - Display board [64D]

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Brett Daley - Display board [65A]

The Prehistory of Death and the Afterlife

Sara Fleming - Display board [65B]

The Archaeological Evolution of Music

Cailey Girard - Display board [65C]

Archeology of Weapons and Warfare

Siara Goodyke - Display board [65D]

The Prehistory of Food and Nutrition

Alison Gregg - Display board [66A]

Archeology of Weapons and Warfare

Brian Guy - Display board [66B]

The Archeology of Music

Courtney Hitzeman - Display board [66C]

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Jessica Javier - Display board [66D]

The Prehistory of the Bow and Arrow

Paeton Keller - Display board [67A]

Archeology of Music

Fiona Lau - Display board [67B]

The prehistory of food/nutrition

Courtney Mazzacane - Display board [67C]

The Prehistory of Food and Nutrition

MacKenzie Mitchell - Display board [67D]

The Prehistory of Religion and Spirituality

Jack Quenelle - Display board [68A]

The Archeology of Weapons and Warfare

Maria Shimkus - Display board [68B]

The Prehistory of Death and the Afterlife

Paiton Strauss - Display board [68C]

The Archeology of Weapons and Warfare

Daniel Terrazas - Display board [68D]

The Prehistory of Spirituality and Religion

Josie Weiland - Display board [69A]

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Josie Wicks - Display board [69B]

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Harrison Yoshioka - Display board [69C]

Kazakhstan: Lack of Ethnographic Data
Denny Allen - Display board [69D]

***What Will Remain? An
Ethnoarchaeological Investigation
into the Swazi, a Tribal-Kingdom from
Swaziland***
Alexander Ballesteros - Display board [70A]

***The Mediterranean Hal-Farrug: A
Maltese Agricultural Society and the
Archaeological Record***
Vincent Gentile - Display board [70B]

***The Paliyans of Kerala and Tamil Nadu,
India: Ethnoarchaeological Investigations
into Paliyan Social Patterns and
Correlates***
Melissa Berchman - Display board [70C]

***The Ulithi of the Western Pacific: Material
Culture and the Archaeological Record***
Courtney Davis - Display board [70D]

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Hannah Jay - Display board [71A]

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Megan Kumorek - Display board [71B]

***The Huaorani of Ecuador: An Amazonian
Society and the Archaeological Record***
Chelsea Richeson - Display board [71C]

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Kelly Sloan - Display board [71D]

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Revitalization and Preservation***
Kyle Allen - Display board [72B]

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Michael Mowery - Display board [72D]

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Jessica Andrew, Sydnee Wickstrom - Display
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Influence on Societal Gender Roles***
Margot Beauchamp - Display board [73B]

Military Identity in Kurdistan
John Farron - Display board [73C]

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SBS- Applied Indigenous Studies

The Green Science Center

Francisco Palop - Display board [74A]

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Garrett Murphy - Display board [74C]

Clinical Services For Native American Youth on the Reservation

Tyanna Billy - Display board [75A]

Problems on the Navajo Nation

Duane Higdon - Display board [75C]

End-Stage Renal Disease On The Navajo Community

Pearl Nez - Display board [76A]

The Historical Cause of Overweight and Obesity Among American Indians and Alaska Natives

Kaydee Williams - Display board [76C]

Post Traumatic Stress Disorder on the Navajo Nation

Jonathan Yellowhair, Jonathan Yellowhair - Display board [77A]

The Second Corporate Takeover

Luis Viniestra - Display board [77C]

SBS- Communication

Meanings Are In People, Not Words: An Intrapersonal Approach to Communication Competency

Cynthia Becker - Display board [78A]

Social Exclusion & Isolation: The Need for Belonging and Acceptance

Joshua Cruz - Display board [78B]

Being Superwoman: Negotiating Identities and the Good Life in the Post Modern Era

Jenny Flores - Display board [78C]

Alpha Males in Postmodernity

Nathan Morales - Display board [78D]

Unlock the Love

Jamie Sowden - Display board [79A]

Mainstream Media in Relation to Communication Theory

Hannah Wheeler - Display board [79C]

It's On Us!

Lucerito Arvizu, Chance Frey, Paige Lorentzen - Display board [79D]

'Lactivism' in the Media: Persuasive Messages Created by Public Breast Feeding Supporters

Danielle Lackey, Dakota King, Chelsea Seifert - Display board [80A]

All Lives Matter

Marissa Mitchell, Edward Forbis, Dejon Walker - Display board [80B]

How Persuasive Techniques Affect Professional Sports Lockouts

Rebecca Mueller, Shannon Boruch, Robert Moreno - Display board [80C]

Influence, Advocacy and the Dilemma of Journalism

Vincent Peña, Matt McElroy, James Garner - Display board [80D]

Analysis of Persuasive Techniques Utilized in Anti-Tobacco Campaigns

Lindsey Potts, Tyler Leamer, Cassandra Chavez - Display board [81A]

SBS- Criminology and Criminal Justice

Comparison of American Asian, Hispanic Street Gang Subcultures, and Police Subcultures

Tiffany Tran - Display board [85A]

Introducing Flagstaff Justice Court Staff to Alternative Dispute Resolution (ADR)

Alyssa Dutchover, Sydney Olson - Display board [85C]

Institutional Alternative Dispute Resolution between Students and Northern Arizona University

Ryan Houglund, Brett Schwartz, Matt Branscome, Josiah Huggins - Display board [86A]

The Resolution Guidebook to Freshmen Living

Daniel Langdon, Connor Matthews, Diego Mondragon - Display board [86C]

What's Your Conflict Style? - Techniques To Resolve Conflict

Benjamin Morse, Darcy Van Mouwerik, John Hober, Lizeth Lopez Garcia, Anthony Lamia - Display board [87A]

Conflict Management Styles

Andrew Shadwick, Trevor Hook, Ryan Nowicki, Tiffany Curry, Philip Schab, Daesy Lozano - Display board [87C]

Alternative Dispute Resolution Peacemakers

Brian Western, Denisse Nunez, Alyssa Soto, Brittney Harmon, Brett Robbins - Display board [88A]

SBS- Ethnic Studies

The Genius Behind Hip Hop

Jessica Mathiasz, Gabriella Nunnally, Corbin Jountti, Kaiah Eaton, Tylor Brown, Tiffany Onyenagubo, Manuel Apodaca - Display board [SBS EASEL]

SBS- Geography, Planning, and Recreation

Community Impacts from University Student Growth and Housing

Ali Alsarraf - Display board [89A]

The Arizona Wine Industry of the 21st Century: The Dynamics of Class and Global Trends in Wine Culture

Cliff Ormiston - Display board [89C]

SBS- Institute for Human Development

Reshaping Media's portrayal of Disability

Lindsey Compton, Shea Shoemaker - Display board [88C]

Attitudes, Smells, and Choice Blindness

Angela LaBrusciano - Display board [96A]

The Dualistic Model of Passion: Professor Outcomes and Student Evaluations

Louis Irving, Gavin Parsons, Melissa Birkett, Ann Huffman - Display board [92D]

Dual-Military vs. Dual Career Marriages with Children Still at Home: Work and Family Related Outcomes

Janalie Young, Louis Irving - Display board [93A]

Is Group Cognitive Behavioral Therapy Effective for Children and Adolescents with Social Phobia? A Systematic Review of Available Evidence

Sarah Kuhn, Niya Davis - Display board [102B]

Difficulty Estimates by Magicians Versus Non-magicians

Christopher Cuellar - Display board [93B]

Effect of Music Preference while Studying on G.P.A. and Need for Cognition

Bradley Dishong, Catherine Mallory, Forrest Colavecchia, Alexandra Tyra, Johnna Martorana - Display board [93C]

The Theater of the Mind

Marc Brewer - Display board [93D]

Perspective Taking and Empathy

Jasmine De La Torre - Display board [94A]

Research Proposal: Effects of Contextual Framing of a Magic Trick on Magical Thinking in Children

Zachary Harper - Display board [94B]

Deceptive Biological Movement in Contact Sports

Mackenzie Olson - Display board [94C]

Superstition: An Evolutionary Adaptation

Erica Palacios - Display board [94D]

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Floris Peshlakai - Display board [95A]

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Cori Pooley - Display board [95B]

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Brianna Robertson - Display board [95C]

Effects of Rapport-Building on Perceived Strength of Magic Illusions

Grant Satterthwaite - Display board [95D]

Parenting Styles and Deviant Behavior

Stephanie Botic, Kristen McFadden, Dianna Johnson, Vannesa Banister - Display board [96B]

Social Media Effects on Happiness

DemiLynn Carvalho, Chyna-Mae Sablan, Austin De Los Santos, Ellaina Logacho - Display board [96C]

Effects of Religiosity on Preferences for Mate Selection

Andrew Haynes, Antonietta Bartley, Delaney Page, Wolfgang Nelson - Display board [96D]

An Event Related Potential Investigation of Self/Other Discrimination

Dylan Barbera, C. Chad Woodruff, Taran DePaola - Display board [97A]

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Taryn Lovett, Brittany Kirby, Shawntell Atkins, Jessica Gowens - Display board [97B]

The Relationship Between Internet Usage and Loneliness

Cassie Schrader, Stella Elam, Zoe Anaya, Andrea Morales - Display board [97C]

Coloring Personality

Krista Henderson, Anna Birch, Tyler Rogers, Maraina Frabbie - Display board [97D]

The Effects of Religion on Altruism

Mildred Aguilar, Ann Chen, Mackenzie Huffman, Kristen Parks - Display board [98A]

Interpersonal Attraction and Gender Identity

Martha Garner, Teresa Martza,
Cassandra Bizon - Display board [98B]

Can sexual assault increase the likelihood of planning or attempting suicide? A meta-analysis

Joan Paul, Becca Braunstein, Kara Self,
Gregory Busath - Display board [98C]

The Point of it All: Happiness or Financial Gain

IsaBella Vento, Bre Hawkins, Erika Peña,
Ashley Segarra - Display board [98D]

Ideal Characteristics Versus Real Life Partners

Kristina White, Mariah Hartin, Caitlin Lobb -
Display board [99A]

Emotion Inducing Event Recollection and its Effect on Human Compassion

Rebecca Grafstrom, Ann Futterman Collier -
Display board [99B]

Sleep Characteristics of Overweight Female Undergraduates in a Weight Loss Program

Anna Robertson, Emily Wilson,
Suzanne Daiss - Display board [99C]

Anxiety Attachment, Emotional Dependency, and Effects on Romantic Relationship Compliance

Matthew Valente, Matthew Valente,
Christopher Cuellar - Display board [99D]

The Effects of Caffeine and Stress on Academic Performance

Blake Howell, Nicholas Butler, Zia Helgeson-
Budrys, Brett Anderson - Display board [100A]

Birds of a Feather: Skin Tone, Attraction, and Stereotyping

Courtney McCarthy, Anwyn Tompkins, Alicia
Martin, Sarah Guinea - Display board [100B]

The Effects of Music Tempo on the Memory Recall of Introverts and Extroverts

Natalie Phillips, Tanya Tobiason, Scotti Dick,
Richmond Barkemeyer, Matthew Brandel -
Display board [100C]

Social Bonds in Aging

Colleen Teague, Andrew Shadwick,
Taylor Pondy, Donna Zastrow - Display board
[100D]

Theater Well-Being

Hiba DuVal, Ann Futterman Collier -
Display board [101A]

Parenting Styles and Personality

Mikayla VanArsdel, Chelsea Heintz,
Alexis Richardson, Leanne Milner -
Display board [101B]

Favorability of Adoption: How knowing someone adopted affects people's favorability of adoption

Ashton Dalsing, Jasmine Castellanos,
Raquel Daniels, Erikson Bighorse - Display
board [101C]

The Effect of Music Mood Type on Problem Solving Ability

Bailey McIntosh, Lauren Herd, Cori Schreiber
- Display board [101D]

Effects of Course Facebook Page on Instructor Perception

Mackenzie Onofry, Andrea Heppner,
Gregory Robertson - Display board [102A]

A systematic review of available evidence on the efficacy of Cognitive-Behavioral Based Therapy (CBT) for Perinatal, Prenatal, and Antenatal Females D

Stephanie Crane, Samantha Roberts -
Display board [102C]

How Does That Make You Feel? A Systematic Review of the Efficacy of CBT in Treating Depressed Adolescents

Joshua Demakovsky, Shelby Burton -
Display board [102D]

Let's Go To Work: The Effects of Supported Employment Treatment on Schizophrenia

Emily Johnson, Connor Lane - Display board
[103A]

A systematic review of available evidence of Relaxation Therapy for Insomnia in Adults

Rang Ly, Vincent Simone - Display board
[103B]

A Systematic Review of Outcomes in Public Speaking Phobia: Efficacy of Virtual Reality Cognitive Behavioral Therapy

Kyla Phoenix, Jael Harper - Display board [103C]

The Effectiveness of Trauma-Focused Cognitive Behavioral Therapy on Children with Post-Traumatic Stress Disorder as a Result of Sexual Abuse

Brandi Saunders, Danielle Perry - Display board [103D]

Self-Esteem, Self-Concept Clarity and Interpersonal Dependency

Rosemary Al-Kire, Christopher Romero, Marilu Montoya - Display board [104A]

Self-Other Differences in Mu Suppression Do Not Require Observer-Movement

Stephen Wipf, Stephen Wipf - Display board [104B]

A Systematic Review of Cognitive Behavioral Therapy (CBT) and Adult Attention-Deficit Hyperactivity Disorder (ADHD)

Taran DePaola, Victoria Warnock - Display board [104C]

The Relationship Between Self-Report and Behavioral Measures of Creativity

Sarah Zarr - Display board [104D]

A systematic review of the available empirical research on the efficacy of behavioral parent training for attention deficit hyperactivity disorder in

Zach Taylor, Becca Richardson - Display board [SBS EASEL]

Developing a Positive Transgender Identity: A Qualitative Study of Identity Development

Kaylynne Gray, Andrew Walters - Display board [SBS EASEL]

SBS- Sociology and Social Work

Can I Stop Procrastination?

Krystal Burns - Display board [81B]

Behavior Change: Self-Care

Kelly Bay - Display board [81C]

Planned Change: Going From Inactive to Active

McKayla Bradley - Display board [81D]

Behavior Change Project - Healthy Living

Sarah Casey - Display board [82A]

Behavior Change: Getting Active

Briana Cuestas - Display board [82B]

Behavior Change, can we stop the addiction to technology

Amanda Fox - Display board [82C]

Overcoming the Imbalance of my World

Robin Goldfarb - Display board [82D]

Behavior Change: Family/School Priority balance

Prudence Jackson - Display board [83A]

Behavior Change: Physical Improvement

Antonio Leon - Display board [83B]

Behavior Change: Establishing a Regular Sleeping Schedule

Sarah Lytikainen - Display board [83C]

Planned Change: Working Towards A Better Me

Stefany Malatesta - Display board [83D]

Behavior Change: Praying and Mindfulness Practice

Gabriella Nunnally - Display board [84A]

Behavior Change: Study of the Bible

Sara Smith - Display board [84B]

Eating Chocolate While Doing Homework

Jazmine Williams - Display board [84C]

Behavior Change: Lower Stress Levels

Angelica Giraldo - Display board [84D]

Behavior Change: Personal fitness and Nutrition

Karely Ramirez - Display board [SBS EASEL]

The Reality of Foster Care: How Foster Care is used to oppress communities of Color

Regina Austin - Display board [90A]

Disabilities in America: The Stigmatization of People with Invisible Disabilities

Mariah Block - Display board [90C]

Gendered Media and its Influence On Our Lives

Jacqueline DeCross - Display board [91A]

Marriage Equality and Immigration Status

Alycia Lewis - Display board [91C]

Understanding Senate Bill 1070 (SB1070)

Lauren Walsh - Display board [92A]

UC- University Studies

Communicating Visually Through Entertainment Stage Design

Alexander Cuje - Display board [114B]

SSLUG Action Research Team: Cold frames and Greenhouse

Charlie Moon - Display board [113A]

Art Historic Learning Application

Anders Battle - Display board [114D]

Recycling Plastic Using Pyrolysis

Cody Reed - Display board [115B]

HEALTH Action Research Team: Cook Book for Local Foods

Ana Manzano - Display board [113C]

Recruitment and Retention of Detachment 027

Joshua Abalos - Display board [115D]

Importance of Health and Nutrition in the Workplace

Taylor Boyd - Display board [116B]

An Analysis of Events at a Coffee Shop

Siobhan Buchanan - Display board [116D]

Stereotypes in Athletics

Chrishay May - Display board [117B]

The Reynolds Project

Zach Reynolds - Display board [117D]

The Preservation of Historical Archives, Manuscripts and Special Collections

Juliana Godoy - Display board [118D]

**Luncheon for CEFNS Presenters,
Faculty Mentors, and Judges**
Keynote Speaker: Michael Downey

**From Airplanes, to Pine Trees, to
the Pythagorean Theorem — how
your education can be the first
step to a great career!**

Michael Downey

*Senior Project Engineering Manager
Pneumatic Systems Engineering
Honeywell Aerospace, Inc.
Tempe, AZ*

**Friday, April 24, 2015
11:30am - 1:00pm
du Bois Ballroom**



LUNCH

11:45 a.m. - 1:00 p.m.

**Skydome Stage B: Honors Convocation &
Awards Ceremony**

11:45 a.m. - 1:00 p.m.

**Skydome Stage E: University College
Awards Ceremony**

AFTERNOON SESSION

Non-poster listings

Skydome CAL floor

2:00pm - 4:00pm - Exhibit

Seeing the Portrait - CAL, Art
Elizabeth Schauer

A Painterly Professional - CAL, Art
Kimberly O'Hara

A Moment in Time - CAL, Art
Danielle Mierzwa

Landscape Painting - Honors, Honors
Program
Emily Wisniewski

3:00pm - 3:20pm - Performance

FAT-and That's Okay - CAL, Theatre
Annamarie Carlson

Skydome Floor

2:00pm - 4:00pm - Performance

PLAYING AROUND: Physical Approaches to Building Character Using Commedia dell'Arte and Other Physical Techniques - CAL, Theatre
Christina Maxwell, Imani Barnett, Hannah Palazzi, Heather Coleman, Alexia Coppell, Nicholas Hodge, Ethan Hoover, Ella Joseph, Kaleb Lightfoot, Grace Novak, Eduardo Pinson, Jordan Reinhardt, Sonja Usher, Keenan Ward, Logan White, Audrey Young

Skydome Honors Table

2:00pm - 4:00pm - Exhibit

Breaking Bad Overview and Analysis Website - Honors, Honors Program
Eric Siebert

Skydome SBS Table

2:00pm - 4:00pm - Performance

Investigating Difference - SBS,
Criminology and Criminal Justice
Evan Lim, Taylor Boyer, Seth Kollman,
Brodie Johnson, Paul Hurd

**Broken Glass Theory: How the 1980s
Turn the 2010s Into a Racist Police Force** -
SBS, Criminology and Criminal Justice
Tenille Phillips

Skydome UC Table

2:00pm - 4:00pm - Exhibit

Working Animals - UC, University Studies

Jenna Larson

Skydome Roundtable R1

1:15pm-1:45pm - Roundtable Discussion

Breaking Bad and the Drug Culture

Honors, Honors Program

Cayla Washington, Luis Castillo, Kaitlyn

TenHaken, Charles Molitor, Jeremiah

Johnson, Michael Bulriss, Isreal Urbina-

Muniz, Steven Michael Cordovanauser

3:00pm-3:25pm -Roundtable Discussion

The Elephant in Our Schools: Teacher

Bullying and How it Affects Students -

COE, University Studies

Devon Artrip

Skydome Roundtable R2

2:00pm-2:25pm - Roundtable Discussion

Shades of Gray: Who Pays the Price for the Disconnect In Teacher Education -

COE, Teaching and Learning;

Educational Specialties

Janay Wiggins, Garrett Maier

3:00pm-3:25pm - Roundtable Discussion

Wolves Know No Boundaries -

CEFNS, Environmental Sciences and

Environmental Studies

Alysse Lerager, Christy Harvey, Rachel

Heydorn, Bryan Jagiello

Skydome Roundtable R3

2:00pm-2:25pm - Roundtable Discussion

Restraint in the Classroom - COE, Teaching and Learning; Educational Specialties

Chandler Jones

Skydome Stage A

2:00pm-2:12pm - Oral Presentation

Immigration, Identity, and Inequality

for Maghrabins in France - CAL,

Gobal Languages & Cultures

Ana Gonzalez-Gomez

2:36pm-2:48pm - Oral Presentation

The Importance of Slang-Education When Learning a Foreign Language - CAL, Gobal Languages & Cultures

Sotida Arpronphalitphan

2:12pm-2:24pm - Oral Presentation

Genocide and Politics in Rwanda -

CAL, Gobal Languages & Cultures

Megan Wagy

2:48pm-3:00pm - Oral Presentation

Senegalese Water Quality and Resource Issues - CAL, Gobal Languages & Cultures

Nick Reimers

2:24pm-2:36pm - Oral Presentation

Culture in My Language - CAL, Gobal Languages & Cultures

Katherine Wood

3:00pm-3:20pm - Oral Presentation

Ethel Smyth: The Liberation of Music and Gender - CAL, Music

Sedona Libero

3:20pm-3:40pm - Oral Presentation
Gray Wolf Conservation - SBS, Politics and
International Affairs
James Etkorn

3:40pm-4:00pm - Exhibit
Act Your Age - SBS, Communication
Paula Jones, Ryan Massey, Chris Binning

Skydome Stage B

Breaking Bad: Insights into the TV Show

1:15pm-1:35pm - Oral Presentation
Breaking Bad: Analysis of Season Posters
- Honors, Honors Program
Shienna Braga, Catherine Strickler

1:35pm-1:55pm - Oral Presentation
Breaking B[re]ad - Honors,
Honors Program
Alexis Sheffield

Honors Approaches to Science

2:00pm-2:20pm - Oral Presentation
**An Interdisciplinary Honors Learning
Experience in Ecological Restoration** -
Honors, Honors Program
Johanna Statom

2:40pm-3:00pm - Oral Presentation
Exercise vs. Cancer - Honors,
Honors Program
Sierra Sullivan

2:20pm-2:40pm - Oral Presentation
**Using Journalism to Foster Science
Literacy** - Honors, Honors Program
Lindsay Wilson

Music, Media, and the Economy

3:00pm-3:20pm - Oral Presentation
**Black Topaz and Its Role in Joan Tower's
Compositional Development** -
Honors, Music
Phoebe Hughes

3:40pm-4:00pm - Oral Presentation
**Illegal Immigration: Economic Myths
Debunked** - Honors, Honors Program
Caitlin Cerra

3:20pm-3:40pm - Oral Presentation
The Portrayal of Abuse in Popular Media -
Honors, Honors Program
Liana O'Connor

Skydome Stage C

1:30pm-1:50pm - Oral Presentation
Integrating LGBTQIA Issues Into the Choral Classroom - Honors, Honors Program
Sydney Wilson

2:00pm-3:00pm - Performance
Writing like a Beast: Hybrid Forms - Honors, Honors Program
Randy Brierley, Courtney Gage, Mara Georgeff, Sophia Licher, Anthony Porter, Samantha Schommer, Mackenzie Staires-Ziemann

3:00pm-3:10pm - Oral Presentation
Through the Eyes of Youth: Life and Death in the Bedzin Ghetto - CAL, Comparative Cultural Studies
Meaghan Scott, Amanda Williamson

3:10pm-3:20pm - Oral Presentation
Through the Eyes of Youth: Life and Death in the Bedzin Ghetto - CAL, Teaching and Learning; Educational Specialties
Aryn Hudak, Taylor Chesley, Jenna Wright

3:20pm-3:30pm - Oral Presentation
Through the Eyes of Youth: Life and Death in the Bedzin Ghetto - CAL, Communication
Chloe Lira, Sarah Carpenter, Michael Woody

Skydome Stage D

1:15pm-2:00pm - Oral Presentation
Self Portrait of America: Preserving Opportunity - Honors, Honors Program
Ellie Fuller, Gabe Hernandez, Chris Studey, Jordan Althouse

2:00pm-3:00pm - Oral Presentation
Unexpected Activism - Honors, Honors Program
Sydnie Nagore, Destiny Simpson, Ty Cureton, Kristen Kenny

3:00pm-4:00pm - Oral Presentation
Empathy: Hinders or Helps? - Honors, Honors Program
Miranda Henry, Tatum Bardsley, Katelyn Jezowski, Lee Sayles, Elise Fraher

Skydome Stage E

2:00pm-2:15pm - Oral Presentation
Discrimination of Woman in the Business Field - COE, Ethnic Studies
William Robbins

2:15pm-2:30pm - Oral Presentation
Feminist Movement - COE, Ethnic Studies
Samantha Boyd

2:30pm-2:45pm - Oral Presentation
Struggles and Strides of the LGBTQIA Community - COE, Ethnic Studies
Joseph Mendoza, Zoe Brown, Christopher Kane

2:45pm-3:00pm - Oral Presentation
LGBTQ: Is It Really Sunshine and Rainbows? - COE, Teaching and Learning; Educational Specialties
Sara Podnar

3:15pm-3:30pm - Oral Presentation
Paraprofessionals For Special Education - COE, Teaching and Learning; Educational Specialties
Camille Klepacz

3:30pm-3:45pm - Oral Presentation
MR-Miseducated or Ridiculing - COE,
Teaching and Learning; Educational
Specialties
Abigail Shoenhair

3:45pm-4:00pm - Oral Presentation
Ask Us About Inclusion! - COE, Teaching
and Learning; Educational Specialties
KarenAnn Mancha, Kristen Harris, Chantelle
Chandler, Madeleine Krull, Rachel Casey

duBois Agassiz Room

1:30pm-1:55pm - Oral Presentation
Vulture Mine Tailings - CEFNS, Civil and
Environmental Engineering
Audrey Lang, Nicolas Boon, Nicole Stanczak

1:55pm-2:20pm - Oral Presentation
Prestressed Concrete Beam Design -
CEFNS, Civil and Environmental Engineering
Catherine Irvine, Abdullah Alhaddad,
Brian Bloom, Mingyang Chen

2:20pm-2:45pm - Oral Presentation
Kendrick Street Bicycle Boulevard Design -
CEFNS, Civil and
Environmental Engineering
Christopher Sobie, Pierce-Jon McKelvey,
Stephen Hirte, Yousef Alkandari

2:55pm-3:20pm - Oral Presentation
**Channel Stabilization Design for
Summit Homeowner** - CEFNS, Civil and
Environmental Engineering
Eric Carrasco, Eric Carrasco, Hamad Alajmi,
Fatemah Husain

3:20pm-3:45pm - Oral Presentation
**Space Radiation Detection Imaging
System** - CEFNS, Electrical and
Computer Engineering
Jacob King, Ricardo Peterson, David Keene,
Serena Saucedo, Brandon Shipman

3:45pm-4:10pm - Oral Presentation
Cobham WiFi Project Abstract - CEFNS,
Electrical and Computer Engineering
Ronnie Hudson Jr, Hamed Alharbi,
Alex Rutledge

duBois Festival Room

1:30pm-1:55pm - Oral Presentation
Flexible Maintenance Calendar - CEFNS,
Mechanical Engineering
Kyle Granchelli, Duke Ayers, Ryan Dooley,
Kristopher Bullins, Jarrin Oishi

1:55pm-2:20pm - Oral Presentation
**Mother Road Brewing Company Sales
Dashboard** - CEFNS,
Electrical and Computer Engineering
Veronika Alves, Andrew Alonis,
Shariq Jamil, Jason Travis

2:20pm-2:45pm - Oral Presentation
**Clinical Pathways Management and
Simulation** - CEFNS,
Electrical and Computer Engineering
Christopher Heiser, Eduardo Iniguez,
Jordan Harris

2:55pm-3:20pm - Oral Presentation
**Planif-i: Itinerary Creation Web
Application** - CEFNS,
Electrical and Computer Engineering
Lane Fujikado, Mark Thompson,
Sarah Kehoe, Mohammad Al-Otaibi

duBois Fremont Room

1:30pm-1:55pm - Oral Presentation

Injection Molded Silicone Mock Vessels for In-Vitro Testing of

VIABAHN Endoprostheses -

CEFNS, Mechanical Engineering
Samantha Nickerson, Ryan Geier,
Jingyun Chen, Kirstin Martin,
Justin Paothatat, Ryan Smith

1:55pm-2:45pm - Oral Presentation

SAE Mini Baja - CEFNS, Mechanical
Engineering

Ricardo Inzunza, Ahmad Alnattar, Zane Cross,
Kyle Egan, Nick Garry, Neil Gehr, Trevor
Hochhaus, Brandon Janca, Matthew Legg,
Ryan Wordern

2:55pm-3:20pm - Oral Presentation

Mobile Computer Cart - CEFNS,
Mechanical Engineering

Trevor Scott, Mohammed Aldosari,
Abdulrahman Alhamdi, Joel Asirsan,
Samuel Martin

3:20pm-3:45pm - Oral Presentation

Horizontal Test Stand Rotation Mechanism - CEFNS, Mechanical
Engineering

Nicholas Garcia, Mary Begay, Brett Booen,
Calvin Boothe, James Ellis

3:45pm-4:10pm - Oral Presentation

Mechanical Paper Shredder - CEFNS,
Mechanical Engineering

Kendall Meyer, Sultan Alshahrani,
Ryan Baloo, Mohammad Molani

duBois Meadows Room

1:30pm-1:42pm - Oral Presentation

Earthship Biotecture: Sustainable From The Ground Up - CEFNS, Environmental
Sciences and Environmental Studies
Jake Cowin

1:42pm-1:54pm - Oral Presentation

Plant-pollinator Associations of the San Francisco Peaks: A Study of Pollination Ecology over an Elevation Gradient

- CEFNS, Environmental Sciences and
Environmental Studies
Philip Minette

1:54pm-2:06pm - Oral Presentation

Do High-Severity Fires Influence Patterns of Seedling Regeneration? - CEFNS,

Environmental Sciences and Environmental
Studies
Jennifer Blanks, Suzanne Owen

2:06pm-2:18pm - Oral Presentation

A Decade of Increased Temperature Affects Soil Fungal Communities - CEFNS,

Biological Sciences
Matthew Belus

2:18pm-2:30pm - Oral Presentation

Reconstructing Past Environments to Understand Human Land Use: Paleocology of Montezuma Well, Arizona

- CEFNS, Environmental Sciences and
Environmental Studies
Emmett O. Tsosie, R. Scott Anderson

2:30pm-2:42pm - Oral Presentation

The Influence of Microclimatic Factors on the Establishment of Ponderosa Pine Germinants - CEFNS, Environmental

Sciences and Environmental Studies
Sidney Michl

2:42pm-2:54pm - Oral Presentation

Locomotor Behaviors Exhibited by California grunion (Leuresthes tenuis) During Spawning Runs on California Beaches Vary with Environmental Conditions - CEFNS, Environmental

Sciences and Environmental Studies
Andrew Johnson, Clinton Moran, Alice Gibb,
Kathy Dickson

2:54pm-3:06pm - Oral Presentation

Earthship Biotecture: Sustainable Systems Thinking within the Housing Market -

CEFNS, Environmental Sciences and
Environmental Studies
Ian Smith

3:06pm-3:18pm - Oral Presentation
Grey Whales in Clayoquat Sound, Canada: Are the moving further North? - CEFNS, Environmental Sciences and Environmental Studies
Catherine Smolenski, Laura Feyrer

3:18pm-3:42pm - Oral Presentation
Mortality Rates for Young Ponderosa Pine Seedlings Following Disturbance - CEFNS, Environmental Sciences and Environmental Studies
Kendle Webster

3:42pm-3:54pm - Oral Presentation
Where The Wild Wolves Are - CEFNS, Environmental Sciences and Environmental Studies
Megan Starostecki

3:54pm-4:06pm - Oral Presentation
Sea Turtle Conservation & The Promise of New Life - CEFNS, Environmental Sciences and Environmental Studies
Samantha Davidson

duBois Room A

1:30pm-1:42pm - Oral Presentation
Internship Experience: Green NAU Energy Initiative, Sustainable Behaviors Program - CEFNS, Environmental Sciences and Environmental Studies
Rebecca Baracco

1:54pm-2:06pm - Oral Presentation
Environmental Education in the Backcountry with NAU Outdoor Adventures - CEFNS, Environmental Sciences and Environmental Studies
Lily Styrmoe

2:06pm-2:18pm - Oral Presentation
Rehabilitated Houses: How are Regulation Reviews Processed? - CEFNS, Environmental Sciences and Environmental Studies
Cory Mueller

2:30pm-2:42pm - Oral Presentation
Sustainability in the Marketplace: A Comparison of Tuscan and American Farmers Markets - CEFNS, Environmental Sciences and Environmental Studies
Elizabeth Olson

2:42pm-2:54pm - Oral Presentation
Raising Community-Based Interactions through Social Events and Educational Seminars - CEFNS, Environmental Sciences and Environmental Studies
Gabriel D'Luzansky

2:54pm-3:06pm - Oral Presentation
SkyHi!, an All Natural Microgreen Producer - CEFNS, Environmental Sciences and Environmental Studies
Alex Gilmore

3:06pm-3:18pm - Oral Presentation
Community Engagement of Social and Environmental Sustainability at Friends of Flagstaff's Future - CEFNS, Environmental Sciences and Environmental Studies
Sita Stanfield

3:30pm-3:42pm - Oral Presentation
The Unconventional Intern: How to Give Your Best as a Non-traditional Student - CEFNS, Environmental Sciences and Environmental Studies
Heather Aaron

3:42pm-3:54pm - Oral Presentation
Rerouting the Rio de Flag: Effects on the Flagstaff Community - CEFNS, Environmental Sciences and Environmental Studies
Alexandra Garcia

duBois Southwest Room

1:30pm-1:55pm - Oral Presentation
ScreedAll - CEFNS, Mechanical Engineering
Daniel Deniger, Kyle Maddux, Kyle Spaulding, Luis Montano

2:55pm-3:20pm - Oral Presentation
Separation of Oil from Water - H2Oleum - CEFNS, Civil and Environmental Engineering
Daniel Pardo, Mahdi Mohammad, Christina Holt, Ali Hasan

3:20pm-4:10pm - Oral Presentation
Wildlife Telemetry Drone - CEFNS, Electrical and Computer Engineering
Trevor Petersen, Willem Arjana, Christopher Gass, Stephen Kuluris, Reejay Martinez, Alexander Moore, Leonard Peshlakai, Lucas Philipson, Dylan Steyer

Skydome floor: Posters (2:00pm -4:00pm)

CAL - Comparative Cultural Studies

Japanese Castle Architecture of the Momoyama Period
Emily DelMonico - Display board [126D]

Ai Weiwei's Zodiac Heads
Emily Lawhead - Display board [127B]

Material Culture of the Song Dynasty
Clotilde Sliva - Display board [127C]

Ceramics in Delft: A Comparison of Chinese Export Porcelain and Imitative Dutch Ware
Payton Stafford - Display board [127D]

CAL - English

iWriting Workshops
Justin Kanzler, Jose Martinez - Display board [128A]

Pinning Motivation: An Non-academic Platform for Academic Needs
Morgan Wentz - Display board [128B]

International Writing Consultation Project
Wuke Zhou, Ning Zhang, Chenxu Fu - Display board [128C]

Interdisciplinary Student-to-Student Writing Survey
Marisa Incremona - Display board [128D]

The Dreadful Paper: Student and Teacher Perspectives on Writing
Courtney Shelton, Nicole Escamilla Guardiola - Display board [129A]

CAL - Global Languages & Culture

The Value of Oral Histories in a Global Community: Experiences from the Salvadorian Civil War
Emily Wilson, Jacob Atkins - Display board [130B]

CAL - History

Spain in the 1930s: Teaching History and Historical Analysis Skills Through Newspapers

Cheyenne Wilson, Madisen Hachey, Trey Mohoroski, Sierra Vaughn, Aaron Ferris - Display board [129C]

CAL - Interior Design

Summit Care: Continuing Care Retirement Community (CCRC) & A Country Club

Zahra Al jubran - Display board [119B]

Retail Store Design- Outdoors Mall

Juan Alonso - Display board [119D]

Brand New School Dormitory Design in China

Bing Bai - Display board [120B]

Church Design: Senior Interior Design Capstone Project

Shelby Butler - Display board [120D]

Adaptive Reuse: Repurposing the Historic Barrister Place Building

Kendall Daniels - Display board [121B]

Progress and Main Street Revival

Alayna Gronwald - Display board [121D]

Boutique Fitness Facility: Creating a Community and Alleviating Stress

Jenna Hodgkiss - Display board [122B]

POISE Salon and Spa Design

Alicia Ledesma - Display board [122D]

International Airport Terminal

Na Lu - Display board [123B]

Concert Venue Design for the Millennial Generation

Heather Pugh - Display board [123D]

The Future is Suite: Designing the Hotel Suite of the Future

Tiffany Tatafu - Display board [124D]

South Beaver School

Kristine Shook - Display board [124B]

Flagstaff Women's and Children's Crisis Center

Sauna Walker - Display board [125B]

CEFNS - Biological Sciences

Characterization of Antibody Distribution in an Aysmptomatic, Chronic Case of Human Melioidosis

Karen Hernandez - Display board [17A]

Chronic Population-level Exposure to Estrogenic Micropollutants Selects for Estrogen Exposure Resistance in a Naturally Occurring Fish Population

Theresa Rizza, Rex Rolan Bergamini, Catherine Propper - Display board [18A]

The Effect of a Stand Replacing Fire on Ectomycorrhizal Fungi Inoculum Potential

Larrea Cottingham, Catherine Gehring, Suzanne Owen - Display board [18B]

Development and Characterization of Microsatellite Markers for the Leech, *Helobdella stagnalis*

Kelsey Banister, Erik Lehmkuhl, Rebecca Beresic-Perrins - Display board [18C]

Bateman's Principle and the Effect of Polyandry on Male Fitness in the Marine Isopod, *Paracerceis sculpta*

Adrianna Nimer, Stephen Shuster, Robert Prather - Display board [18D]

Effects of *Mimulus guttatus* Physical and Chemical Defense Traits on a Generalist and Specialist Herbivore

Jocelyn Garcia, Liza Holeski - Display board [16B]

A Survey of the Prevalence and Diversity of *Clostridium difficile* in Flagstaff Dogs

Cara Alboucq, Dave Wagner, Joseph Busch, Nathan Stone - Display board [12A]

From the Soil to Cystic Fibrosis Patients: Antibiotic Resistance in *Burkholderia vietnamiensis*

Madeline Lummis, Carina Hall, Joseph Busch, Jason Sahl, Theodore Spilker, John LiPuma, Mark Mayo, Bart J. Currie, Paul Keim, David M. Wagner - Display board [12B]

Identifying the Genetic Basis for Flea-borne Transmission in Plague

Andrew Rivera, Ekaterine Zhgenti, Dawn Birdsell, Roxanne Nottingham, Ekaterine Khmaladze, Gvantsa Chanturia, Stephen Beckstrom-Sternberg, James S. Beckstrom-Sternberg, Jason Sahl, Merab Kekelidze, Paata Imnadze, Mikeljon Nikolich, Paul Keim, David M. Wagner - Display board [12C]

Genetic Characterization of *Yersinia pestis* in Brazil

Brian Thompson, David Wagner, Paul Keim, Andrew Rivera, Roxanne Nottingham, Amy Vogler, Alzira Almeida - Display board [12D]

Possible Infection of Leeches by Amphipod Parasites at Montezuma Well, AZ

Lindsey Stolze, Rebecca Beresic-Perrins - Display board [13A]

Immune Antibody Response in a *Melioidosis* Goat Model to Targeted Set of *Burkholderia pseudomallei* Protein Antigens

Mitchell Keener, Mukoma Simpanya, Jinhee Yi, Mark Mayo, Joseph Busch, Erik Settles, Bart Currie, Richard Bowen, Paul Keim - Display board [13B]

Is There Anything a Skunk Won't Eat?: Potential for Rabies Transfer via Scavenging of Dead Bats

Annie Dyer, Tad Theimer - Display board [13C]

Exercise-induced Stimulation of Gene Expression: Comparison Between Whole Blood Versus Isolated Mononuclear Cells

Jenna Plummer, Aaron Done, Nathan Nieto, Tinna Traustadottir - Display board [13D]

Analysis of Enclosure Conditions for the Construction of a *Thamnophis rufipunctatus* Vivarium

Hannah Wilson, Tonya Keno - Display board [14A]

Genetic and Geographic Distribution Differences of *Coxiella burnetii* Among US Milk Samples with a Focus on Indiana

Sonora Olivas, Amy Bauer, Heidie Hornstra, Paul Keim, April Johnson, Talima Pearson - Display board [14B]

The Effects of Wastewater Effluent on Gonadal Development in the American Bullfrog (*Rana catesbeiana*)

Tomoko Wilson, Tanya Sutton, Catherine Propper - Display board [14C]

Revisiting Sperm Limitation in Parasitic Wasps

Shauna Greene, Zane Holditch - Display board [14D]

In-vitro Wound Healing Scratch Assay Using Platelet-rich Plasma Demonstrates Expedited Wound Closure

Bronson Pinto - Display board [15A]

Manipulation of the L-Arginine Pathway by *Toxoplasma gondii*

Inez Pabian - Display board [15B]

Ectoparasitism and Vector-borne Pathogens in Northern Arizona Predator-Prey Cycles: Epizootiological Risk to Reintroduced Black-footed Ferrets

James Franklin, Ryan Hogans - Display board [15C]

The Prevalence of Tick-borne Pathogens Found in Rodentia spp. in Regions of Northern Arizona

Rhea Zagar, Carter Hranac, Benjamin Turner, Ashley Gundersen, Nathan Nieto - Display board [15D]

Have Substrate-feeding Killifishes (Cyprinodontiformes) Lost the Ability to Suction Feed?

Ana Ronan, Amber Jones, Alice Gibb - Display board [16A]

The Metaboreflex is Not Enhanced During Exposure to Moderate Altitude

Kathryn Chancey, Dannette Allen - Display board [16C]

Development of an In Vitro (Bench-top) Assay to Evaluate the Effects of Reactive Oxygen Species on Fibroblast Cultures

Kristina Galbreath, Robert Kellar, Aaron Tabor - Display board [16D]

Detection Methods of Coccidioides from Soil Samples, the Causative Agent of Valley Fever

Stephanie Rivas, Katy Parise, Paul Keim, Bridget Barker - Display board [17B]

Arthropod Pollinators Influence the Pollination Nature of Angiosperms Along the C. Hart Merriam

Jillian Mondrow, Ella Stephens - Display board [17C]

Using Digital Histopathology to Determine Biocompatibility of Tropoelastin and Collagen Implants

Kyle McMinimy, Robert Diller, Robert Kellar - Display board [17D]

CEFNS - Chemistry and Biochemistry

Quantification of Uranium in Unregulated Wells on the Navajo & Hopi Reservations

Erik Peaches - Display board [27B]

Influence of the Role of dehydroshikimate dehydrogenase in Production of β -carboxymuconic acid from D-glucose Using an Escherichia coli heterologous h

Gustavo Canales, Kellan B. Finney, Kinya Hotta, David T. Fox - Display board [25B]

Pharmaceutical Phosphines for Faster Formulation: Palladium-Phosphonium Complexes and their Medical Impacts

Samantha Kruse, Thomas Haden, Loren Reichsfeld - Display board [26B]

Quantification of Uranium in Soil Collected Near an Abandoned Uranium Mining Site in Leupp, AZ on the Navajo Reservation.

Alanna Koritzke, Andee Lister, Jani Ingram - Display board [26D]

Transitioning to NAU in STEM: Transfer-GEMS

Alexander Ollerton, Meghan Belmares - Display board [27D]

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BioEnergy and Wastewater Management

Emily Day, Emily Day, Liam Bewick,
John Santoro, Daliza Jeffrey, Sun Kyu Ham,
Jarrod Yazzie - Display board [10A]

Preventing Cattle Disease: A Lesoit, Tanzania Project

Nathan Ensley, Diane Buzzard, Blakeley
Matthews, Carter Vickers, Clayton Anderson,
Luke Jordan -
Display board [11A]

Moringa Seed Project

Erin McAnally-Trejo, Amanda Sagrilo,
Natana Caren De Castro, Lucas Ramos -
Display board [11B]

EcoPod Development for Copper Canyon Mexico

Amanda Harrison, Amanda Harrison,
Matthew Rodgers, Michael Robinson,
Dustin Morris, Andrew Atkinson,
Eric Rich-Plotkin - Display board [11C]

Sinclair Wash Restoration Project

Leah Richardson, Hasan Mohammand,
William King, Holly Swenson - Display board
[11D]

CEFNS - Electrical and Computer Engineering

NASA Radiation Absorption in Tissue Samples: Measurement of Radiation Flux

Keith Caldwell, Trevor LaBanz, Austin
Rhodes, Josiah Sellstrom, Katherine
DeFonce- Display board [9A]

Implant Battery Charger GUI Research & Development

Robert Winkler, Nancy McCollough, Kevin
Meyer, Tomas Zukowski - Display board [9B]

Interactive Point Visualization

Tim Velgos, Erin Bailey, Curtis Billbrey,
Alex Farmer - Display board [9C]

Increasing Taxonomic Resolution of Microbial Communities

Karthik Handady, Ian Humphrey,
Cate Holcomb, Ryan Buckingham,
Crystal Hepp - Display board [9D]

SciViewer

Alex Lanza, Austin Sanders, Leah Kalush,
Justin Liddicoat - Display board [10B]

Child Mobility Project: Learning Through Assisted Movement

Jessica Randolph, Kohlton Gray,
Brad Turcott, Dale Mongeau, Brian Gilpin -
Display board [10C]

Automatic Syllabification

Salvatore Bottiglieri, Michael Albanese,
Drew McDaniel, Trent Cooper,
Adam Thomas - Display board [10D]

CEFNS - Environmental Sciences and Environmental Studies

Tracking Winter Bird Population Movement Via Feeder Observation

Brett Ireland, Trevor Glynn, Melissa Fisher - Display board [6A]

Take Back the Tap Campaign at Northern Arizona University

Bobbi Wilson, Katie Cloud, William Pleitgen - Display board [6B]

Is Conventional Landscaping More Efficient Than Low Impact Landscaping?

Bryan Jagiello - Display board [6C]

Change the World Project: Cans to Cans

Dohna Bicoy, Carter Doud, Daniel Kimball - Display board [7A]

Raising Awareness on Cycling Safety within the Flagstaff Community

Randi Ryan, Jackson Bain, Renee LeQuense - Display board [7B]

Citizen Science: The FeederWatch Project Through The Cornell Lab of Ornithology

Michelle Bem, Benjamin Pelletier - Display board [7C]

Crayfish Abundance in Water with High Carbon Dioxide Concentrations in Central Arizona

Solan Watts, Charles Drost - Display board [7D]

Northern Mexican Gartersnake Public Outreach Project

Traci Swift, Niki Ortega, Ansley Roberts - Display board [8A]

The Impacts of Snowmaking on the San Francisco Peaks

Claire Silvernale, Dezirea Acker, Shannon Rivers - Display board [8B]

Flagstaff EcoRanch Fall Internship 2014: Tangible, Local and Sustainable Solutions

John Christ - Display board [8C]

Citizen Science: Feeder Watch, Studies in Migration Patterns

John Christ, Solan Watts, Sara Krznarich - Display board [8D]

CEFNS - Forestry

Can Acoustic Vibrations Affect the Growth of Fungi?

Brennan Copp, Richard Hofstetter - Display board [19B]

Using Growth Releases to Identify Disturbance Events in Southwestern Dry Mixed-conifer

Michael O'Reilly - Display board [19D]

CEFNS - Geology

A Comprehensive Study of Two Columnar Jointing Locations to Determine Differences in Rate of Cooling

Brittany Meucci - Display board [23B]

A new large armored fish from the Devonian (380 Ma) Martin Formation of Mt. Elden

Dylan Mills - Display board [24B]

Flow Relations of the Hoxworth Springs

Garrett Erickson - Display board [23D]

Receiver Function Analysis

Alden Netto, Ryan Porter - Display board [24D]

The Mystery of Transverse Aeolian Ridges on Mars

Justin Wilgus, Paul Geissler - Display board [25D]

CEFNS - Green Fund

Refill at Cline Library: Water Bottle Fill Stations and Reducing Waste

Jill Friedmann, Lauri Budzinski - Display board [1B]

Solar Hot Air Heaters

Rachelle Berry - Display board [2B]

CEFNS - Mathematics and Statistics

Prime Vertex Labelings

Emily White, Hannah Prawzinsky, Michael Hastings, Levi Heath, Nathan Diefenderfer, Alyssa Whittemore, Briahna Preston - Display board [22B]

Eisenstein Amicable Pairs

Zachary Parker, Jordan Hunt - Display board [22D]

CEFNS - Mechanical Engineering

Developing an Alternative Powered Mobility Device for Disabled Children

Sarah Hanson, Marissa Brzozowy, Justin Mully, Nabeal Sunna - Display board [1D]

NASA Human Exploration Rover

Kyle Carpentier, Josh DeBenedetto, Joey Annolino, Greg Dowske, Joseph Andaya, Wilson January - Display board [3B]

2nd Generation Charging Station

Ruben Villezcas, Jasem Alhabshy, Riyadh Alzahrani, Brandon Gabrelcik, Ryan Murphy - Display board [3C]

SAE Aero Design Regular Class

John Nichols, Mitchell Thune, Carlen Cyphers, Michael Schauer, Seth Lawrence, Todd Gonzalez - Display board [4A]

Micro Wind Turbine

Jorge Vielma, Hussain Mohammad, Alex Hunter, Hengming Dai, Alyosha Sandigo - Display board [4C]

Parabolic Trough - Tracking and Energy Extraction

Jairo Rivera-Mendez, Saad Almonneay, Robert Blaskey, Daniel Chief, Christopher Mesko, Jacob Seitzer - Display board [5A]

AquaScooter

Corey Jones, Meagan Morrison, Sydney Kemper, Tyler Furuya, Troy Ballard - Display board [5C]

Aquascooter 2.0

Elizabeth Tyler, Dylan Cannon, Darin Gilliam, Eli Palomares, Jiyan Wang, Tyler Winston - Display board [5D]

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Real-Time Surface Profiling of Industrial Materials Using Digital Holography

Tressa Mackin - Display board [20B]

Development of a Spectrophotometric Data Reduction Pipeline

Ryan Buckingham - Display board [20C]

Search for Central Pit Craters on Saturn's Icy Moons

Sierra Ferguson, Nadine Barlow - Display board [21B]

Breaks in Radial Stellar Surface Brightness in Spiral Galaxies.

Brian Barandi - Display board [21D]

COE - Teaching and Learning; Educational Specialties; Educational Foundations

Representation of Latino/a Culture at NAU

Ashleigh Burchfield - Display board [50A]

The American Indian Pursuit of Higher Education

Clark Williams - Display board [50C]

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Sarah DeVita, Beth Pickens, Kelsey Hecker - Display board [51A]

Is All Transition Planning Successful?

Rebecca Fawcett - Display board [51C]

Being Smart with Art: How Art Programs Affect the Pursuit of Higher Education

Tricia Ochi - Display board [52A]

How to preserve Traditional Knowledge in Indigenous Communities by Promoting Language and Their Linkage to Ecology?

Juan Carrillo - Display board [52C]

Fairness in Latina Families

Gradi Moore - Display board [53A]

Black Lives Matter: Stories From Flagstaff

Rahmaan Muhammad - Display board [53C]

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Alexa Olsen - Display board [54A]

Disability Studies

Jori Misiuk, Mary Lauderdale, Violet Hays, Courtney Mazzacane, Erica Grove, Katie Cuppy - Display board [54C]

Through the Public Eye

Karely Rodriguez, Heather Hatcher, Emily Nelson, Kiersten Gaetano, Cristina Guerrero - Display board [55A]

Being LGBTQ at NAU

Paige Stewart - Display board [55C]

FCB - Business - Accounting

Wendy's v. DavCo

Justin Goff, Justin Johnson, Tobias Martinez, Nikolas Rabyada - Display board [28A]

Brain Injuries in Professional Sports

Rachel Jacobs, Bradley Van Deirse, Lauren Glick, Emily Lewandowski - Display board [28B]

Antitrust Law in Professional Sports

Clayton King, Mackenna Tally, Jonathan Shimek, Emily Zamora - Display board [28C]

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Daniel Phillips, Jayna Schmitt, Carissa Halliday, Jack Jess - Display board [28D]

The Patent-Antitrust Conflict: The Intermingling of Anti-Exclusionary Provisions and Exclusionary Intellectual Property

Rebeca Pieropan, Kevin Romacker, Lauren Bruni, Conrad Scott - Display board [29A]

Construction Contract Breaches Involving Questions of Due Diligence

Mathilde Pioux, Luka Radjenovich, Jakob Klein, Jonathan Schwartz - Display board [29B]

Copyright Infringement in the Music Industry

Megan Volin, Jasmine Handy, Grace Aire-Oaihimire, Qingmiao Yang - Display board [29C]

Civil Asset Forfeiture

Clayton Vossberg, Torrey Westfall - Display board [29D]

Gambling with Water in the Desert

Khaled Alsabah - Display board [30A]

The Central Arizona Project

Caitlin Cerra - Display board [30B]

An Economic Analysis of Colorado Water Issues

Christopher Dossdall - Display board [30C]

Economic Analysis of Superfund Sites

Michelle Hagan - Display board [30D]

Issues in the Mono and Grant Lakes

Hannah Hutchison - Display board [31A]

**Water Issues in Lake Mead-
An Economic Perspective**

Victor Iniguez - Display board [31B]

Water Issues in the West: Desalination

Alejandro Jacquez - Display board [31C]

Reducing Water Use with Better Irrigation

Charles Kelley - Display board [31D]

Santa Catalina Island Water Management

Miller Olsen - Display board [32A]

Water Crisis in Africa

Aubrie Perea - Display board [32B]

**The Risks and Safety Protections of
Arizona Water**

Rebeca Pieropan - Display board [32C]

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California**

Chris Salters - Display board [32D]

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William Shainin - Display board [33A]

Desalinization of Water in the West

Garrett Storr - Display board [33B]

Water Consumption

Bob Urbon - Display board [33C]

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Because It is Hard**

Adrian Verduzco - Display board [33D]

Desalination Projects in the World

Zijing Wang - Display board [34A]

**The Public Choice Aspect of the Mountain
Line Bus System**

Erika Desabrais, Victor Iniguez - Display board [34B]

**A Case Study in Public Choice Theory of
the Flagstaff Aquaplex**

William Wilson, Christopher Dossdall - Display board [34C]

**An Analysis of Las Vegas Hospitality
Water Sustainability**

Brendan Moore - Display board [35A]

**Recycling in Flagstaff: A Case Study in
Public Choice Theory**

Cole Swearingen, Morgan Wam - Display board [35C]

**Why Flagstaff Should Not be a Dark Sky
City**

Nicholas Walker, Kurt Van Denburg - Display board [35D]

**Flagstaff's Troubling Bed, Board and
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Rachel Welsh, Tyler Pledger - Display board [36A]

The Privatization of the Flagstaff Airport

Kyler Doan, Quinn Tanner - Display board [36B]

**Public Choice Aspects of Road
Privatization**

Ryan Newland, Dakota Chavez - Display board [36C]

San Diego Desalination Plant

Kyler Doan - Display board [FCB EASEL]

**Water Feasibility Analysis of Algae
as a Bio-Fuel**

Ryan Newland - Display board [FCB EASEL]

FCB - Business - Management

Privatizing Grand Canyon Water Supply

James Rodriguez, Anthony Javier - Display board [34D]

Emotions

Duane Higdon, Andrew Nielsen, Sam Slager, Adam DeSerio, Davis Boyer - Display board [36D]

Jack's Colors

Sean Bozigian - Display board [37A]

An Analysis of Ethnic Diversity within the W. A. Franke College of Business

Alex LaRosa, Brian Williams, Taylor Tracy - Display board [37B]

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Blake Skorich - Display board [37C]

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Connor Campbell, Tyler Eink - Display board [40D]

FCB - Business - Marketing

Market Research for Lowell Observatory

Kayla Boxberger, Summer Anderson - Display board [37D]

Marketing Research Design of Project: Lowell Observatory

Daren Darnell, Justin Sieczkowski, Mitch Pike, Rayan Alawi - Display board [38A]

Who is Coming to Lowell?

Muhammad Darwish, Chet Johnson, Min Hee Kim - Display board [38B]

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Paige Nasuta, Danielle Doty, Eduardo Viramontes, Joshua Benally - Display board [38C]

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Aydee Palomino, Brandon Ingraham, Alex Williamson, Kevin Donley - Display board [38D]

Lowell Observatory Marketing Research

Jessica Swygert, Michelle Hensel, Lindsey Harper, Kaitlyn McNalley - Display board [39A]

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James Takacs, James Takacs, Shayana Galliher, Alex Wellman, Hannah Dalsing - Display board [39B]

Lowell Observatory

Lauren Traum, Mikah Hatcher, Alethia Halbig, Rachael Yohai, Lauren Traum - Display board [39C]

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Kerry Yamauchi, Evan Atwood, Brendan Hollenbaugh - Display board [39D]

FCB - Business - Finance

A Financial Analysis of Expedia's Acquisition of Orbitz

Brendan Moore - Display board [35B]

FCB - Hotel and Restaurant Management

Brownsberg EcoTourism Facility Design

Jessica Hardi, Jessica Hardi, Matthew Langenbach, Kacy Aoki, Evan Kaichi, Dohna Bicoy, Steven Goettl, Darren Frankenburger - Display board [40A]

Experiential Ecotourism in Copper Canyon Mexico

Claudia Jurowski, Matthew Shaw, Peter Baroldy, Jordan Calka, Timothy Partridge - Display board [40B]

Ecotourism Facility in Copper Canyon Mexico

Claudia Jurowski, Connor Nelson, Zane Grenner-Oyer, Kailey Fuller, Vanessa Pacheco, Adam Stalzer - Display board [40C]

Honors - Honors Program

Conquerors or Settlers? Two Visions of the American Frontier

Carl Thomson - Display board [110D]

Nature and Mental Health

Corinne Bright, Karolina Pieja - Display board [111A]

The Effect of Nature on Human Happiness and Spirituality

Jessica Chamberlain, Trevor Wilson, Mary Koehler - Display board [111B]

The Physical Human and Nature

John Condon, Alvaro Alvarez - Display board [111C]

Reconciling with Nature

Joseph Felton, Emily Haworth, Scott Judge - Display board [111D]

The Truth About Climate Fiction

Elizabeth Stapleton, Cara Pocano - Display board [112A]

Children in Nature

Jason Yubeta, Maranda Breese, Paige Kimble - Display board [112B]

Touchdowns and Traumatic Brain Diseases: A Look at Chronic Traumatic Encephalopathy In the National Football League and Beyond

Elora Palmer - Display board [112C]

Joint Angles and Jump Variation Between Wildtype and Mutant Mouse MDM Genotypes.

Zachary Fader, Michael Isbell, Kiisa Nishikawa, Cinnamon Pace - Display board [112D]

SBS - Anthropology

Human Archeology of Sexuality

Elizabeth Torres - Display board [69C]

Fighting for Freedom in Namibia

Alyssa Anthony - Display board [62A]

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Nicholas Fisher - Display board [62B]

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Kristian Cordell, Vanessa Stoyanof - Display board [62C]

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Ehren Keltz - Display board [62D]

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Alexis Orozco - Display board [63A]

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Stefan Rosic - Display board [63B]

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Kraig Shirley - Display board [63C]

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Elizabeth Ford, Mikayla Hirschel - Display board [63D]

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Austin Adib - Display board [64A]

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Madison Breuer - Display board [64B]

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Timothy Carlson - Display board [64C]

Did the Cavemen Believe in God?

Sheridan Couture - Display board [64D]

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Michael Dobiecki - Display board [65A]

The Archaeology of Music

Tony Geroulis - Display board [65B]

The Prehistory of Animal Domestication

Kaylen Goetzke-Rux - Display board [65C]

Archeology of music

Elena Gray - Display board [65D]

Death and Afterlife in Prehistory

Cristina Guerrero - Display board [66A]

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Kortney Haines - Display board [66B]

The Archaeology of Music

Isabella Holmes-DiGiovine - Display board [66C]

Prehistoric Food and Nutrition

Alicia Johnson - Display board [66D]

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Rebecca Klein - Display board [67A]

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Toby Lopez - Display board [67B]

The Evolution of Sex - As Told By Rubbish and Rarities

Riley McAuliffe - Display board [67C]

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Taylor Porter - Display board [67D]

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Sean Ramey - Display board [68A]

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Alexandra Simon - Display board [68B]

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Michelle Suyama - Display board [68C]

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Fernando Vergara - Display board [68D]

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Cody Werner - Display board [69A]

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Kasey Williams - Display board [69B]

The Zapotec of Ixtepeji, Mexico: Material Culture and the Archaeological Record

Barbara Arriaga Espinoza - Display board [69D]

Why Must I? An Examination of the Illicit Drug Trade in the United States

Alexander Ballesteros - Display board [70A]

Archaeological Preservation: The Importance of Protecting the Archaeological Record in Danger Prone Areas

Vincent Gentile - Display board [70B]

The Maasai of East Africa: The Material Culture and Archaeological Correlates of a Herding Society

Mikaela Girard - Display board [70C]

Simple Subsistence: Material Correlates of the Washo Lifestyle

Sean Golightly - Display board [70D]

The Inuit of the Northern Arctic: Material Culture and the Archaeological Record

Maisie Kulpinski - Display board [71A]

The Huron of the Great Lakes Region: The Archaeological Correlates of a Tribal Society

Pamela Miller - Display board [71B]

The Archaeological Problem of Groundless Archaeology: Ethnoarchaeological Investigations into the Kombai of West Papua.

Amy Roy - Display board [71C]

The Sami of Scandinavian Europe: Archeological Correlates of the Symbolism of a Semi-Nomadic Tribal Society

Chandler Trotter - Display board [71D]

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Allison Trottier - Display board [72A]

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Ariel Apple, Alison Steinbacher - Display board [72B]

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Tate Larrick - Display board [72C]

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Genevieve Alagna - Display board [72D]

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Brooke Barteaux, Emily Stevens - Display board [73A]

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Erin Comprosky - Display board [73B]

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Emily Fowler - Display board [73C]

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Dorothy Kilgore - Display board [73D]

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Amanda Fox - Display board [SBS EASEL]

Themes of Structural Violence and Struggles of Love in Northeastern Brazil

Alison Steinbacher - Display board [SBS EASEL]

SBS - Applied Indigenous Studies

Abandoned Uranium Mines on the Navajo Nation

Andria Begay, Chelsi Tsosie - Display board [74B]

Factors Affecting Contemporary Navajo Nation Elections

Briana Ashley-Willie - Display board [74D]

Tribes and Historic Preservation: American Indian Religious Freedom Act

Kaitlyn Haskie - Display board [75B]

1680 - The Fight for Decolonization Continues

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Deann Nishimura Thornton - Display board [76B]

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Tyanna Billy - Display board [76D]

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Alissa Sage - Display board [77B]

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Megan Loeffler - Display board [77D]

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Mackenzie Olson, Alexis Montano, Edward Horn - Display board [80C]

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Alexandria Saquella, Chelsea Hightower - Display board [80D]

Impacts on the Adjustment of International Students

Kiley Westby, Lawreca Jones, Chloe Hotman - Display board [81A]

SBS - Criminology and Criminal Justice

The Criminal Justice and Criminology College Based Learning Community

Paige Annunziato, Keith Hullenaar - Display board [85B]

Working through Roommate Disagreements

Brianna DeBenedetto, Daniel Delgado, Danielle Treto, Ian Ross - Display board [85D]

Conflict Management Workshop for High Stress Environments

Manuel Juarez, Jordan Juarez, Dominic Petrini, Joe Gorski, Leroy Guenther, Alex Holmes - Display board [86B]

Getting to Yes

Rachel Melton, Alex Garcia, Kyle Collingwood, Elizabeth Lozano, Derick Souza - Display board [86D]

Implementing an Alternative Dispute Resolution Approach within Residence Life

Alfredo Navarro, Alexis Juergens, Ledu Tomeletso, Jazmine Mincey, Courtney Martin - Display board [87B]

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Harrison Stewart, Vernon Jamison, Jasmine Barnes, Joslyn Harris, Blair Wishom - Display board [87D]

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Santana Yazzie, Jessica Bush, Grant Pooley, Brittany McKee - Display board [88B]

SBS - Geography, Planning, and Recreation

Economic and Environmental Impacts of the Slide Fire, 2014

Robb Faus - Display board [89B]

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Riley Sawyers - Display board [89D]

SBS - Institute for Human Development

Explicit Vocabulary Instruction Embedded in Narrative Language Intervention

Chelsey Gardner, Kylie Suter - Display board [88D]

SBS - Psychological Sciences

An Examination of the Transferability of Military Experience to Civilian Job Success

Kaitlin Fitzgerald, Richmond Barkemeyer, Michelle Chavez, Zachary Klinefelter, Angela Milkie - Display board [92D]

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Victoria Pocknell, Alexis Sanchez - Display board [93A]

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Christopher Cuellar, Justin Jones, Matthew Valente - Display board [93B]

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Ariel Bachmann - Display board [93C]

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Lara Creaser - Display board [93D]

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Jill Griffin - Display board [94A]

Research Proposal: Choice Blindness & Morality: Testing Long Lasting Influence

Patrick Johnson - Display board [94B]

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Brianna Laysen - Display board [94C]

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Amy Parra - Display board [94D]

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David Pipitone - Display board [95A]

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Tate Reed-McDorman - Display board [95B]

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Carina Stihl - Display board [95C]

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Grant Satterthwaite - Display board [95D]

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Shameka Brinson, Tara Blank, Liliana Berzunza, Ross Thomas, Shameka Brinson - Display board [96B]

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Nicholas Garver, Nicole Lavigne, Kyle Brandt, Gilbert Hays - Display board [96C]

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Mahjabeen Qazi, Mariah Calvani, Mackenzie Florence, Denny Little - Display board [97B]

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Kylie Stradling, Kelsey Landstrom, Hollie White, Taylor Brooks - Display board [97C]

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Ashley Averett, Trinity Frazee, Tiana Hans - Display board [97D]

The Effects of Self-Esteem and Introversion on Romantic Relationship Duration

Brianna Barrios, Stephanie Kemsley, Marisa Bracewell, Keaton White - Display board [98A]

Gender and Academics: Effects on Preferred Characteristics in Mates

Caroline North, Kellie Garrett, Karimme Delgado - Display board [98B]

Emotional State Affects Moral Judgments

Manda Robbins, Jennifer Goedinghaus, Dana Dal Soglio, Erik Vessey - Display board [98C]

Cue-based Differences in Memory Monitoring Accuracy

Emily Wilson, Crystal Reynolds - Display board [98D]

The Effects of Physical Attraction on Forgiveness in a College Population

Christopher Winters - Display board [99A]

Body Image in Hispanic and Latino/Latina College Students

Brianda Vargas, Martha Trujillo
- Display board [99B]

Keep Calm and Focus: The Effects of Doodling on Memory

Anna Robertson, Julianna Aliberti, Genoveva Machado - Display board [99C]

The Efficacy of Individual Versus Group Treatment Regarding Motivational Interviewing for Adolescents with Substance Use Disorder: A Systematic Review

Matthew Valente, Zach Kaiser -
Display board [99D]

Academic Dishonesty as Moderated by Anonymity

Josiah Huggins - Display board [100A]

Married Army Couples Program: Perceptions, Experiences, Impacts and Suggestions from Dual-Military Couples

Alicia Parrott, Mariana Bosch Y Gutierrez, Timothy Broom, Blake Miley - Display board [100B]

Do College Students' Level of Alcohol Consumption Depend Upon Peer Pressure or Self-esteem?

Carlene Sachs, Sharcie Coker, Tahnee Noe -
Display board [100C]

The Relationship Between Masculinity and Female Leadership Moderated by Self-Efficacy

Sayer-Jane Vermeer, Cayden Cupper, Adisen Hennessy, Ricki Steffan, Shelby Nowell -
Display board [100D]

The Couple's Path to an Alcohol Free Life: A systematic review of Behavioral Couples Therapy for Treating Alcoholism

Kaleigh Hartzell, Christopher Placker -
Display board [101A]

I Don't Care About Your Dead Dad: Trust and Its Affect on Empathy

Samantha Bonar, Connor Lane, Alyssa Prokow, Timothy Weimar -
Display board [101B]

How Well Do You Know Yourself: A Study on Attraction

Leigh Irons, Tierra Fairman, Paige Cencelewski, Elizabeth Lozano - Display board [101C]

Moody Munching: How Emotions Affect Eating

Danielle Misiak, Ashley Stanley, Marissa Hall -
Display board [101D]

Professor-Student Rapport, Perceived Autonomy Support, and Student Outcomes

Shelby Burton, Meliksah Demir, Nora Dunbar -
Display board [102B]

How Effective is Psychoeducation in the Treatment of Adults with Bipolar Disorder? A Systematic Review of Empirical Research

Jasmine De La Torre, Tiana Hans - Display board [102C]

Family-Focused Therapy: Childhood and Adolescent Bipolar Disorder

Olivia Howland, Kayla Ziolko - Display board [102D]

An Exploration of the Efficacy of Cognitive-Behavioral Therapy for Juvenile Obsessive-compulsive Disorder

Terry Laws, Sarah Brown -
Display board [103A]

An Examination of Empirical Research Regarding Applied Behavioral Analysis on Children with Autism Spectrum Disorder

Tami McBride, Kaylee Smith -
Display board [103B]

A Qualitative Review of Published Research on Electronic Nicotine Delivery Systems (ENDS): An Analysis of a Rapidly Expanding Literature

Lauren Ryan, Allie Jessen, Ashley Hanlon -
Display board [103C]

Is Dialectical Behavior Therapy Worth the Time Invested? A Systematic Review of Available Evidence

Abigail Swigart, Keira Lowry - Display board [103D]

Identity and Cohesion Within the Workplace

Rosemary Al-Kire - Display board [104A]

Self-Other Differences in Beta Enhancement/Suppression Do Not Require Movement Execution

Stephen Wipf, Victoria Lopez, Stephen Wipf - Display board [104B]

Event-Related Desynchronization and Correlates of Self-Other Differences

Taran DePaola, Dylan Barbera - Display board [104C]

The Correlation of Religiousness and Kaufman's Domains of Creativity Scale

Alexis Romero - Display board [104D]

A Systematic Review of the Efficacy of Prolonged Exposure Therapy on Veterans with Post-Traumatic Stress Disorder

Madison Theis, Shayna Maniscalco - Display board [SBS EASEL]

SBS - Sociology and Social Work

Minor Investments

Ashley Arnold - Display board [81B]

Planned Behavior: Dealing with Stress

Amanda Boelter - Display board [81C]

Overcoming Stress: A Planned Change Project

Savannah Brewer - Display board [81D]

Behavior Change: Daily Fitness

Kaitlyn Crawford - Display board [82A]

Planned Behavior Change: Cutting back on fast food meals

Chelsea Dyer - Display board [82B]

Planned Behavior Change: Over Analyzing Personal Conversations and Interactions

Jennifer Hudak - Display board [82D]

Morning Preparedness

Carly Lenhardt - Display board [83A]

Behavior Change: Study Habits

Rachel Liewer - Display board [83B]

Eat Your Greens to Fit in Your Jeans!

Briana Lytton - Display board [83C]

Planned Change: Regular Outdoor Activity

Kaleigh Nielsen - Display board [83D]

Stretch It Out

Sarah Sattler - Display board [84A]

Self - Care

Shanell Tisdale - Display board [84B]

Behavior Change: Living a Healthy Lifestyle

Kirsten Olivarez - Display board [84C]

Gender Tropes In Video Games: A Sociological Examination

Marissa Martinez, Nathaniel Douglas - Display board [84D]

Behavior Change: Shopping/Spending

Carolina Flores - Display board [82C]

SBS - Women and Gender Studies

Fossil Fuel Economies and Women's Rights in the Middle East

Danielle Austin - Display board [90B]

Machoism in the Chicano Culture: The Violence to Chicana Women

Alexander Castillo - Display board [90D]

Discovering Trans*Erasure in the Historiography of Stonewall

Kourtney Dunning - Display board [91B]

Who's Lives Really Matter?

Gabriella Nunnally - Display board [91D]

Black Feminism: A Starting Point to Freedom

Kathleen Watkins - Display board [92B]

Filipino Women in Feminism

Kristina White - Display board [92C]

UC - University College

Immigration Action Research Team

Karla Rodriguez - Display board [113B]

Community Gardens Action Research Team: Living the Good Life

Veronica McKinney - Display board [113D]

Does Increased Physical Activity Decrease the Symptoms of Parkinson's Disease?

Jillian Quinn - Display board [114A]

Health Affects of Uranium Mining

Hilary Armenta - Display board [114C]

Facing Parkinson's Disease: An Interdisciplinary Approach to Returning Quality of Life to Those Effected and Their Care-givers

Paul Dunn - Display board [115A]

Childhood Obesity Prevention in American Indian Communities - Building Healthier Generations

Kaydee Williams - Display board [115C]

Modern Sustainable Living

Brad Botsch - Display board [116A]

Roles of Women in the United States Military

Amanda Brouws - Display board [116C]

Social Construction of Race: An Historical Overview

Caleb Laird - Display board [117A]

Perpetuation of Culture in Polynesia

Keola Pontes - Display board [117C]

Arts within Arizona State Public School Curriculum

Jacqueline Richwine - Display board [118A]

Universal Design as a Standard

Matthew Yaney - Display board [118C]

ACCESSIBILITY INFORMATION

Walkup Skydome

- Parking: Lot P66 (SE of the building) is the closest
- Entrance: Accessible entrance E side of building
- Elevator: Yes
- Restrooms: on Concourse level

duBois Center

- Parking: Lot P45 (S of the building) is the closest
- Entrance: Accessible entrance SW side of building
- Elevator: Yes
- Restrooms: on 1st floor

THANK YOU

We wish to thank the faculty, staff, graduate students, judges, volunteers, moderators, and student ambassadors, without whom this event would not have been possible.

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2015 JUDGES

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