

## Poster Presentations: 1:30 – 3:30pm in SI building and EERB

Location	First	Last	Title of Presentation
EERB	Brenden	Lapp	9H Lithium-Ion Battery Recycling
EERB	Samara	Ordahl	9H Lithium-Ion Battery Recycling
EERB	Landon	Walker	9H Lithium-Ion Battery Recycling
EERB	Tanner	Abbott	9H solar ranch
EERB	Bryce	Reher	9H Solar Ranch
EERB	Nico	Shober	9H Solar Ranch
SI	Vincent	Nicholson	A Family of Intrinsically Disordered Proteins Provide Protection to Biomolecules by Changing Structure During Desiccation
SI	Mercedes	Cassidy	A Potential Role of the Immune System in the Regulation of Brain Growth
SI	Aedian	O'Connor	Acclimation to moderate altitude induces physiological adaptations in mice
SI	Joe	Ault	Acylation of Proteins as a Distinct Method for Labeling
SI	Steven	Poyer	Adapting a protein-client assay for enhanced screening capability
SI	Brandon	Phillips	Adverse Cardiopulmonary Effects of Propylene Glycol and Vegetable Glycerin from E-Cigarette Vapor
SI	Kinsale	Day	Analyzing The Lifted Condensation Level (LCL) of The Alps within Northern Italy and Southern Austria
SI	Taylor	Berg	Antimicrobial Resistance in Nature: Resistome Connections
SI	Margaret	Biskup	Antimicrobial Resistance in Nature: Resistome Connections
SI	Hee Lin	Lee	Antimicrobial Resistance in Nature: Resistome Connections
SI	Hannah	Rhymes	Aquaporin-4 Channel Expression in Hypothalamic Regions: Assessing a Potential Intersection Between Glymphatic Clearance and Circadian Rhythmicity
EERB	Corban	Boyd	Athlete Movement Tracker
EERB	Michael	Gehred	Athlete Movement Tracker
EERB	Trevor	Williams	Athlete Movement Tracker
EERB	Samuel	Bayles	Augmented Reality for Umpires
EERB	Dillon	McCardell	AuraLock: Facial Recognition Door Lock
EERB	Erin	Stanfill	AuraLock: Facial Recognition Door Lock

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EERB	David	Freeman	Automated Solar Panel Cleaner
SI	A. Stone	Olguin	Automated Theorem Provers in Mathematics and Computer Science
EERB	Trevor	Evenson	Automatic Coffee Roaster
EERB	Matthew	Springsteen	Automatic Coffee Roaster
EERB	Colin	Woods	Automatic Solving of Real Jigsaw Puzzles with Computer Vision and Genetic Algorithms
SI	Alexander	Minge	BIKES- 1000 miles of air quality research
SI	Isabelle	Seivley	Biodiversity Index of Coleoptera in the Vedauwoo Natural History Site
SI	Jordyn	Sorrow	Biodiversity Index of Coleoptera in the Vedauwoo Natural History Site
SI	Caleb	Price	Bioengineering of Light Controlled Proteins
SI	Luis	Paredes	biotyping pasteuraceae sp. isolates from nasal samples of domestic sheep
SI	Marco	Machado	Brews with Drew & Crew
EERB	Camryn	Lanctot	Buddy Bot
SI	Sadie	Tillotson	Canine Detection of Chronic Wasting Disease in Ungulate Herds: Proof-of-Concept
SI	Daniel	Carrillo	CARD9 knockout improves lipophagy in peritoneal macrophages following high fat diet-induced obesity
SI	Jude	Ferguson	Central Wyoming College Alpine Science Institute 2021 Interdisciplinary Climate Change Expedition (ICCE) Macroinvertebrates and Water Quality Jude Ferguson, Grayson Rotter, Willow Wells, Malaika Klancher Blair, Gigi Holley, Faculty mentors Jacki Klancher and Era Aranow
SI	Willow	Wells	Central Wyoming College Alpine Science Institute 2021 Interdisciplinary Climate Change Expedition (ICCE) Water Quantity in the Dinwoody Cirque Willow Wells, Elizabeth Traver, Malaika Klancher Blair, Jude Ferguson, Gwen Gerber, Faculty mentor Jacki Klancher
SI	McKenna	Kail	Characterization of Soil Anaerobes Associated with a Case of Canine Dysautonomia
SI	A. Mariah	Saville	Comparison of bacteria isolates between sick and healthy Bighorn sheep herds

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SI	Ema	Lujan	Comparison of movement tracking technologies with urban raccoons ( <i>Procyon lotor</i> )
SI	Katelan	Rogers	Continuing Education Needs of Speech-Language Pathologists Regarding Children with Cleft Lip/Palate Across Areas of Varying Population Density
SI	Landen	Fuller	Creation of Learning Curves for Carbon Capture and Storage Technology
EERB	Christian	Bitzas	Detecting Cars in Bad Weather Using Thermal Imagery
EERB	Brady	Wagstaff	Detecting Cars in Bad Weather Using Thermal Imagery
SI	Olivia	Bowers	Do Pasteurellaceae species in lamb nasal swabs change from birth to weaning?
SI	Isabella	Mijares	E-Book Usage with Young Dual Language Learners and Parents
SI	Mikkael	Chick	Efficient quantitation of airborne viruses using water-soluble collection pads: Water-soluble collection pads improve and simplify air monitoring compared to cotton
EERB	Marcus	Garcia	Electrical Pressure Gauge
SI	Madison	Blaeser	Emergence of <i>Mycoplasma bovis</i> in Free-ranging Pronghorn ( <i>Antilocapra americana</i> )
SI	Nataly	Beacham	Ensemble-Specific Structural Synaptic Plasticity in Cocaine Exposure and Relapse
SI	Sarah	Zekovich	Environmental Changes Impact Growth and Efficiency of Soil Bacteria
SI	Macy	Jacobson	Environmental Factors Affecting Species Diversity: A Study of Branchiopoda (freshwater crustaceans) in Central Wyoming Ephemeral Wetlands
SI	Megan	Borders	Exercise During the Juvenile Period Protects Against Cardiac Dysfunction Later in Life
SI	Quillan	Reed	Extraction and Identification of Mushroom Proteoglycans
SI	Michael	Lindman	Fiber-fed High Resolution Echelle Spectrograph
SI	Zackariah	Beck	First look at Selenium-Induced Differential Transcriptomes in <i>Alternaria astragali</i>
SI	Emma	Oetken	First look at selenium-induced differential transcriptomes in <i>Alternaria astragali</i>

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SI	Dorcas	Odogwu	Frailty Index Score in Correlation to Physiological Health Outcomes in Aged Mice
SI	Malea	Christensen	Generating Fluorescently Tagged Proteins in Drosophila using Gateway Cloning
SI	William	Joca	Geodetic Survey on the Dinwoody Glacier and Structure from Motion Photogrammetry
SI	Hannah	Reiter	Geotechnical Considerations for Design of Stormwater Runoff System
EERB	William	Gorman	Guitar Buddy
SI	Kevin	Fontana	High altitude hypoxia causes pulmonary hypertension and right-sided heart failure
SI	Amber	Burgess	Historical Distribution of Burrowing Owls in Nebraska and Impacts of Land Use Changes
SI	Elizabeth	Daharsh	Historical Distribution of Burrowing Owls in Nebraska and Impacts of Land Use Changes
SI	Rishab	Ranjitkar	Historical Distribution of Burrowing Owls in Nebraska and Impacts of Land Use Changes
SI	Malaika	Klancher-Blair	Human Activity, Water Quality, and Coliform Bacteria
SI	Louis	Failoni	Hybrid Integration Senior Design Project
SI	Chase	Nickle	Hybrid Integration Senior Design Project
SI	John T	Peroulis	Hybrid Integration Senior Design Project
SI	Quinton	Royle-Grimes	Hybrid Integration Senior Design Project
SI	Seanna	Latimer	Identification of Binding Determinates for Disordered-Ordered Protein Interactions
SI	Micah	Conner	Identification of Novel Protein and Cellular Pathway Interactions with Abnormal Spindle.
SI	Dean	He	In Vivo Study of Microtubule Dynamics in Female Murine Gonadotrophs Using a Green Fluorescently-Tagged End Binding 1 Protein: Engineering the EB1-GFP Gene into a Recombinant Adenovirus
SI	Bridger	Sparks	Influence of RFamide Related Peptide 3 (RFRP-3) on ovarian cancer cells (SKOV-3 cell line).

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SI	Kathryn	Arneson	Instrumented Plus Maze for Neuroscience Research
SI	Octavio	Gonzalez Guerra Vazquez	Instrumented Plus Maze for Neuroscience Research
SI	Christian	Morrison	Instrumented Plus Maze for Neuroscience Research
SI	Chad	Muma	Instrumented Plus Maze for Neuroscience Research
SI	Joana	Olsen	Instrumented Plus Maze for Neuroscience Research
SI	Lucas	Sa	Investigating Drosophila m. as a Model for Drug Induced Behavior
SI	Brock	Parker	Investigating Exoplanets at the University of Wyoming: Red Buttes Observatory Follow Up
SI	Hunter	Keplinger	Investigating the Role of Nutritional Iron in Memory Response to Toxoplasma gondii Infection
SI	Erica	Mountain	Investigation of the Presence of West Nile Virus in Wyoming Bats.
SI	Gracen	Wallen	Iridium Concentration Analysis in the Cretaceous-Paleogene (K-Pg) Boundary in Garfield County, Montana.
SI	Albert	Mason Jr.	Is biodiversity driving mule deer migration on the Wind River Indian Reservation?
SI	Gareth	Flowers	Laminated Plastic Microfluidic Systems for Continuous Nano-Particle Precipitation and Rapid Immunoassays
SI	Aaron	Emmert	LFP Recycling Plant
SI	Agnesh	Pandey	Metallicity History of the Universe as the Function of Metal Dominated Absorption Features of Quasars
SI	Carrie	Goodman	Milestones for Phonemes
SI	Madison	Miskulin	Milestones for Phonemes
SI	Kathryn	Sawyer	Milestones For Phonemes
EERB	Xue	Siang	Mini Fertigation System Based on Peristaltic pump
SI	Meccade	Garneau	Modern Contact Lenses and Ocular Health
SI	Anne	Dalton	More Than Meets the Eye: Microplastic Accumulation in the Mountainous Snowpack of Wyoming

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SI	Lindsie	Farver	Mycorrhizal Interactions With Three Sisters Crops ( <i>Zea mays</i> , <i>Phaseolus vulgaris</i> , and <i>Curcubita pepo</i> ): inoculation timing and relative dependence.
SI	Chelsea-Victoria	Turner	Mycorrhizal Interactions With Three Sisters Crops ( <i>Zea mays</i> , <i>Phaseolus vulgaris</i> , and <i>Curcubita pepo</i> ): inoculation timing and relative dependence.
SI	Jack	Govaerts	Myxobacteria Antagonism: Different Behaviors in Different Situations
SI	Elizabeth	Howard	Niche Differentiations within Ant-Following Birds at Ant Swarming Events in Panama
SI	Tera	Swaby	Observing Exoplanets At Red Buttes Observatory To Characterize Their Size Using Transit Photometry
SI	Abigail	Brady	Orientation and Graft Effect on Sciatic Nerve Regeneration in the Rat Model
SI	Kolbi	Hester	Perfecting DNA Extraction Protocol in <i>Anthidium roducta</i>
SI	Quincy	Stewart	Perfecting DNA Extraction Protocol in <i>Anthidium roducta</i>
SI	Ashleigh	McManus	Preclinical Studies on Sexual Dimorphism in Mouse Models of Human Brain Disorders
SI	Toby	Covill	Predator Diversion Adaptation in Juveniles of <i>Plestiodon multivirgatus</i> , the Many-Lined Skink
SI	Alyssa	Thormahlen	Quantity born vs. future production (Ovine production)
SI	Wyatt	Horrocks	Radiation Tolerance in <i>H. exemplaris</i> Tardigrades
SI	Taylor	Berg	Rapid Identification of Pathogens and Antimicrobial Resistance Genes in the Food Supply by Nanopore Sequencing
SI	Margaret	Biskup	Rapid Identification of Pathogens and Antimicrobial Resistance Genes in the Food Supply by Nanopore Sequencing
SI	Hee Lin	Lee	Rapid Identification of Pathogens and Antimicrobial Resistance Genes in the Food Supply by Nanopore Sequencing
SI	Alexa	Mejia	Sequestration of Host Transferrin Receptor by <i>T. gondii</i> is Life-Stage Specific
SI	Lindsay	Nevarez	Sequestration of Host Transferrin Receptor by <i>T. gondii</i> is Life-Stage Specific
SI	Taylor	Hatcher	Shal does not determine cold-induced onset of spreading depolarization
SI	Gareth	Bruce	Soil Microbes Decline with Warming and Drying Conditions
SI	Fatoumata	Camara	Soil Microbes Decline with Warming and Drying Conditions
SI	Neza	Pec	Soil Microbes Decline with Warming and Drying Conditions

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SI	Luke	Wilhoit	Soil Microbes Decline with Warming and Drying Conditions
EERB	Benjamin	Skelley	Space Throttle and Flight Stick
SI	Skylar	Hodgins	Structural Plasticity of Dendritic Spines Within Cocaine-Seeking Neuronal Ensembles
SI	Erika	Jones	Student Experience Using Anatomage Virtual Dissection Table
EERB	Rebecca	Miller	Sustainable Energy Greenhouse
EERB	Nick	Nelson	Sustainable Energy Greenhouse
EERB	James	Way	Sustainable Energy Greenhouse
EERB	Sarah	Swanson	Temperature Monitored Drug Delivery Device
SI	Daniel	Shade	The CWC Interdisciplinary Climate Change Expedition (ICCE) 2021 A Comparison of Black Carbon on East and West Slopes
SI	William	Joca	The CWC Interdisciplinary Climate Change Expedition (ICCE) 2021 Wind River Glacial Ice Repeat Photo Project
SI	Keaton	Bell	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Tyler	Clark	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Elizabeth	Erickson	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Abigail	Fearneyhough	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Connor	Heider	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Tylen	Redinger	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Benjamin	Willis	The Design and Development of a Cost-Effective Boundary Layer Rake
SI	Joel	Sorensen	The Identification, Morphology, and Phylogeny of Eimeria Parasites Infecting Cottontail Rabbits ( <i>Sylvilagus audubonii</i> )
SI	Marissa	LeDoux	The impact of age on the naturalness of /r/ productions
SI	Jacob	Frankenberry	The Interpretation of Misarticulated Words by Children with Speech Sound Disorders
SI	Katherine	Garrett	The slow to fast life history continuum: quantifying demographics of the rufous elephant shrew ( <i>Elephantulus rufescens</i> ) and co-occurring rodents in an East African savanna small-mammal community.
EERB	Cody	Hume	Toad Data Collection Device

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SI	Rafael	Homer	Using a forward genetics screen to identify and characterize novel suppressor mutants of the nekl2/nekl3 synthetic lethal phenotype in <i>C. elegans</i>
SI	Deneica	Barrett	Wind River Tree Revitalization
SI	Ryan	Loghry	Wyoming Ground Squirrel Burrow Location in an Anthropogenic Environment