

| # | Presenter | Faculty | Title | Unit | Area of Research |
|----------|---------------------------|-----------------------------|--|-------------|---|
| 39 | Amanda Howe | Paul Carini | Soil Bradyrhizobium: Not Just for N-Fixation Anymore | SWES | Soil microbiology |
| 53 | Andrea Carter | Martha Hawes/Michael Ottman | Root Traits Associated with Drought Tolerance in Barley | SWES | Rhizosphere/Agronomy |
| 55 | Ashley Bickel | Ashley Bickel | Simple Approaches to Examine Economic Impacts of Water Reallocations from Agriculture | AREC | Economics, Water |
| 1 | Ashley Wright | Ashley Wright | Forage Testing Provides Valuable Information to Arizona Producers with Cattle Grazing Native Rangelands | CE | Livestock |
| 4 | Ayako Kusakabe | Patricia Stock | Isolation, identification and nematicidal activity of secondary metabolites produced by the entomopathogenic bacterium <i>Photorhabdus I. sonorensis</i> (Enterobacteriaceae) against the root knot nematode, <i>Meloidogyne incognita</i> (Tylenchidae) | ENTO | Bacteria toxins and secondary metabolites |
| 70 | Bailey Bellavance | Bailey Bellavance | Mapping Earth Fissure in Arizona Using UAV-Based Multi-Angle Photography | SNRE | Arid Lands |
| 40A | Baishali Barua | Kamel Didan | Multiscale Opportunistic Fusion of NEON, Landsat TM/OLI, MODIS and VIIRS Data for the Validation of Satellite based Vegetation Index Time Series | BE | Remote Sensing Data and Methods |
| 51 | Barry Pryor | Barry Pryor | Modification of nutritional and nutraceutical content in mushrooms by variation of substrate and LED illumination. | SPS | Food Environment |
| 2 | Blase Evancho | Duarte Diaz | Arizona Extension Dairy Forage Initiative | CE | Agronomy |
| 46 | Bonnie Hurwitz | Bonnie Hurwitz | Planet Microbe: Toward the integration of oceanographic 'omics, environmental and physiochemical data layers | BE | Bioinformatic |
| 79 | Brandon Mayer | George Ruyle | Machining a Solution to Data Heavy Rangeland Research: Case study with Camera-trap photo processing | SNRE | Rangeland management |
| 75 | Brieanna Whitehair | Matt Goode | Life in the City: Spatial Ecology of the Desert Spiny Lizard (<i>Sceloporus magister</i>) in Tucson | SNRE | Ecology and Conservation |
| 57 | Bryan Moravec | Jon Chorover | Architecture of the deep critical zone, Jemez River Basin Critical Zone Observatory, Valles Caldera National Preserve, Northern New Mexico | SWES | Environmental Geochemistry |
| 67 | Chao Qin | Katerina Dontsova | Adsorption of Insensitive Munition to Water-Dispersible Clay: Impact of Organic Carbon, Aluminosilicate Clay, and Extractable Iron. | SWES | Soil and Environmental Quality |

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| 52 | Charles Parrish | Gene Giacomelli | Optimizing Spectral Quality with Quantum Dots for Controlled Environment Agriculture | Other | Controlled Environment Agriculture; Optics |
| 34 | Chia-Yi Chin | Russell Tronstad | A Discrete Choice and Revealed Preference Analysis of Food Shopping Attributes for Yavapai County Consumers | AREC | Food Marketing; Consumer Preferences; Rural Economic Development |
| 56 | Cyrus Mao | Jiahuai Hu | In vitro evaluation of fungicides for the management of citrus brown wood rot in Arizona | SPS | Plant Pathology |
| 65 | Dana Thorne | Laura Meredith | Assessing GI influences on soil microbial hydrogen consumption. | SNRE | Urban ecology |
| 7 | Daniella Peinovich | Betsy Greene | Sand Concentration in Fecal Matter of Horses from Different Housing Backgrounds | ACBS | Animal Health |
| 27 | Dari Duval | Dari Duval | Geographic Distribution of SNAP-Ed Eligible Population and Direct Education Participation in Arizona | AREC | Agricultural & Resource Economics |
| 45 | David Kudrna | Rod Wing | Pacbio Sequencing for Genome Biology: Long Read Sequencing | SPS | Genomics |
| 36 | DeeDee Avery | Michele Walsh | UACE Common Measures: Creating an Evaluation System across CE Program Areas | FCS | CE |
| 3 | Duy An Duong | Patricia Stock | Draft genome assembly of the entomopathogenic bacterium <i>Photorhabdus luminescens</i> subsp. <i>sonorensis</i> Caborca | ENTO | Bioinformatics, microbiology, biochemistry |
| 5 | Earl Middlebrook | Todd Schlenke | Genome Assemblies of <i>Drosophila</i> Endoparasitoids Reveal Mechanisms of Venom Evolution | ENTO | Evolutionary Genomics |
| 71 | Ebrahim Babaeian | Markus Tuller | A New Unmanned Aircraft System-Assisted Optical Trapezoid Model for Soil Moisture Estimation | SWES | Remote Sensing of Soil Moisture |
| 72 | Ebrahim Babaeian | Markus Tuller | Relating Evapotranspiration Rate, Soil and Plant Temperature, and SWIR Reflectance to Estimate Root Water Uptake | SWES | Remote Sensing of Land Surface Processes |
| 28 | Elizabeth Sparks | Elizabeth Sparks | Evaluation of the FARMacy Program - A Prescription for a Healthier Community | CE | Obesity prevention |
| 22 | Emre Toker | Emre Toker | An Entrepreneurship Education Engine Model for Universities | AgEd | Innovation and Entrepreneurship |
| 16 | Farhan Anwar | Gayatri Vedantam | <i>Clostridium difficile</i> associated disease: looking beyond the toxins | ACBS | Microbiology |

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| 78 | Flavie Audoin | George Ruyle | Comparison of Grazing Behavior of Ranged Raramuri Criollo Steers During Pre-monsoon and Monsoon Seasons | SNRE | Grazing Behavior, Diet Selection and Meat Characteristics of Ranged Raramuri Criollo Cattle during each season in Southeastern Arizona |
| 44 | Gloria Villa Barbosa | Gerardo Lopez | Cyclospora: Potential Reservoirs and Occurrence in Irrigation Waters | ACBS | Environmental Microbiology |
| 35 | Grace Wofford | Sabrina Helm | The Effect of Mortality Salience on Overconsumption and Sustainable Product Choice | FCS | Consumption and Climate Change |
| 15 | Haiquan Li | Haiquan Li | Integrative Analysis Unveiled Convergent Downstream Effects of eQTLs Susceptible to Alzheimer's Disease | BE | Translational bioinformatics |
| 61 | Hamdhani Hamdhani | Michael Bogan | Water Quality Dynamics in an Effluent-dominated Reach of the Santa Cruz River, AZ | SNRE | Stream Ecology |
| 29 | Heather Robinson | Jenn Parlin | The Garden Kitchen | CE | Family and Consumer Sciences |
| 21 | Hope Wilson | Katherine Speirs | Seed to Read Program Development | FCS | Early Childhood |
| 40B | Hunter Cole | Sadhana Ravishankar | Persistence and internalization of Salmonella on/in organic spinach sprout: Exploring the contamination route | ACBS | Food Safety |
| 74 | Jeremy Weiss | Jeremy Weiss | Mapping Climate Exposure and Climate Information Needs to Water Utility Business Functions | SNRE | water resources and management |
| 26 | Joanie Contreras Contreras | Daniel McDonald | Extension Food Nutrition Education Program 50th Anniversary | CE | Nutrition Based Outreach program for limited resource and low income audiences. |
| 9 | Joshua Lin | Arun Dhar | Diagnostic Techniques for Infectious Diseases in Shrimp | ACBS | Aquaculture Pathology |
| 8 | Juan Arias | Betsy Greene | Arizona Federally Recognized Tribal Extension Program (FRTEP): Who, What, Where? | ACBS | Tribal Extension |
| 20 | Katherine Speirs | Katherine Speirs | Child Care Providers? Use of Role Modeling to Promote Healthy Eating | FCS | Early Childhood |

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| 19 | Katherine Speirs, PhD | Deborah Curley, MPH | Engaging Parents | CE | FCHS |
| 32 | Kathryn Orzech | Laurel Jacobs | Assessing the Availability, Appeal, and Promotion of Healthier Foods in Arizona Small Stores | NutSc | Health Disparities |
| 49 | Kelly Dew-Budd | Mark Beilstein | RNA-directed DNA Methylation mediates parental conflict during seed development in <i>Capsella grandiflora</i> (Brassicaceae) | SPS | Plant Genetics |
| 14 | Kerry Cooper | Kerry Cooper | Characterization of Tree Fruit Bacterial Communities during Harvest | ACBS | Food Safety |
| 6 | Kevin Ferro | Todd Schlenke | The cell adhesion molecule Hemomucin is a key determinant of host-parasitoid interactions | ENTO | Host-parasite interactions |
| 13 | Kithsiri Wijeratne | Leslie Gunatilaka | Discovery & Development of Natural Product-Based Potential Immuno-Therapeutics for Melanoma | SNRE | Natural Products-Based Drug Discovery |
| 43 | Kyle Harrington | Ayman Mostafa | Management of Sugarcane Aphid (Hemiptera: Aphididae) in Forage Sorghum in Arizona | ENTO | Field Crops IPM |
| 69 | Kyle Hartfield | Kyle Hartfield | DroughtView 2.0: A Satellite Based Vegetation Drought Monitoring Web Application | SNRE | Remote Sensing |
| 50 | Kyle Palos | Mark Beilstein | Molecular and Phenotypic Characterization of a Noncoding RNA in <i>Arabidopsis thaliana</i> | SPS | Genetics |
| 37 | Madeleine deBlois | Michele Walsh | Developing Diverse Leaders: Best Practices in 4-H Healthy Habits Programming | FCS | positive youth development |
| 76 | Maowei Liang | Elise Gornish | Large influence of a small rainfall pulse on long-term plant community dynamics in a semi-arid rangeland | SNRE | Rangelands Management and Restoration |
| 77 | Marci Caballero-Reynolds | Elise Gornish | Constructing and Operating a Bicycle-Powered Seed Pelletizing Machine for Use in Gardening and Ecological Restoration | SNRE | Ecological Restoration |
| 38 | Martha Gebhardt | Martha Gebhardt | Increasing STEM Capacity in the Local Community at The Santa Rita Experimental Range | CE | STEM Outreach/Education |
| 48 | Megan Nickerson | Jana U'Ren | Influence of host phylogeny and leaf chemistry on foliar endophytic communities of <i>Quercus</i> | BE | Ecology, Evolution, Symbiosis, Microbiome |
| 59 | Michael Pohlmann | Jon Chorover | Catchment-scale redistribution of lithogenic solutes and black carbon over three years following wildfire in the Jemez Mountains, New Mexico, USA | SWES | Soil biogeochemistry following wildfire |
| 18 | Michael Riehle | Michael Riehle | Insulin signaling in mosquitoes: A novel mechanism for controlling malaria and dengue | ENTO | Medical ENTO |

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| 73 | Mohammad Gohardoust | Markus Tuller | Hydraulic and Aeration Properties of Soilless Greenhouse Substrate Mixtures | SWES | Soilless Greenhouse Culture |
| 33 | Natalia Santos | Scottie Misner | Personal and Environmental Factors Associated with Fruit and Vegetable Purchasing among Supplemental Nutrition Assistance Program (SNAP)-Authorized Stores in Pima County, Arizona | NutSc | Food Environment |
| 58 | Nicholas Buchanan | Jon Chorover | Geochemistry of Iron King Legacy Mine Tailings treated through Phytostabilization | SWES | Environmental Chemistry, Contaminant Fate and Transport, Superfund Sites |
| 60 | Norma Villagómez-Márquez | Jon Chorover | Chemicals of Emerging Concern in Roof-harvested Rainwater | SWES | Water Science, Organic Chemistry, Analytical Chemistry |
| 68 | Patrick Broxton | Willem van Leeuwen | SnowView: A satellite data and model driven decision support tool for water resource management | SNRE | Snow hydrology and Water Resources |
| 23 | Paul Brierley | Paul Brierley | Bringing Scientific Research & Industry Together to Find Solutions to Desert Agriculture's Pressing Problems | Other | Agriculture |
| 12 | Qi Wei | Sadhana Ravishankar | Synergistic Effects of Combination Treatments of Essential Oils and a Plant Extract Against Multi – drug Resistant <i>Salmonella</i> Newport on Organic Leafy Greens | ACBS | Food safety |
| 30 | Rachael Hearne | Vanessa da Silva | CE as a Model for Dissemination of the National Diabetes Prevention Program | CE | Chronic disease prevention |
| 17 | Rachel Claus-Walker | Gayatri Vedantam | Clostridium Difficile Infection Surveillance In A Healthcare Setting: Strain Diversity And Identification Of Novel Molecular Types (Ribotypes) | ACBS | Microbiology |
| 62 | Roya AminiTabrizi | Malak Tfaily | Changes in Dissolved Organic Matter along a Permafrost Thaw Chronosequence in a Subarctic Peatland | SWES | Carbon cycling, climate change |
| 80 | Sarah Noelle | George Ruyle | Rangelands Rock! Learn about Rangeland Ecology and Management on Global Rangelands / Rangelands West | SNRE | Rangeland Management |
| 81 | Sarah Noelle | George Ruyle | Natural Resource Users Law and Policy Center | SNRE | Natural Resources Law |
| 47 | Seth Steichen | Judith Brown | Characterizing infections and host-pathogen interactions of <i>Chlorella</i> spp. by the predatory algal bacterial pathogen, <i>Vampirovibrio chlorellavorus</i> | SPS | Microbial Genomics and Algal Biofuels |

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| 64 | Shelby Hoglund | Joseph Blankinship | Increasing soil carbon for future water solutions and desert agricultural sustainability | SWES | Soil Biogeochemistry |
| 11 | Stephanie Arellano | Sadhana Ravishankar | Apple, carrot, and hibiscus edible films containing the plant antimicrobials carvacrol and cinnamaldehyde inactivate Salmonella Newport on organic leafy greens in sealed plastic bags. | ACBS | Food safety |
| 25 | Taylor Bird | Amber Rice | Preservice Agriculture Teachers? Science Content Knowledge through CASE | AgEd | Content Knowledge |
| 24 | Taylor Merrick | Amber Rice | Leadership and Entrepreneurship Education Through a Collaborative, Flipped Classroom | AgEd | Agriculture Education |
| 31 | Theresa LeGros | Theresa LeGros | Five Tips for Large-Scale Assessment of School Wellness Policies Using the WellSAT Scoring System | NutSc | Evaluation of Public Health Nutrition Programs |
| 54 | Ursula Schuch | Ursula Schuch | Opportunities to Improve Drip Irrigation in Arizona Landscapes | SPS | Irrigation |
| 10 | Vimarys Oliveras | Sadhana Ravishankar | Concentration-dependent Inhibition of Escherichia coli O157:H7 and Potentially Carcinogenic Heterocyclic Amines in Heated Ground Beef Patties by Apple, Olive, and Onion Powders and Clove Bud Oil. | ACBS | Food safety |
| 40 | Walter Betancourt | Charles Gerba | The Water & Energy Sustainable Technology (WEST) Center's Microbiology Team | SWES | Microbiology |
| 41 | Worku Burayu | Kai Umeda | Nativegrasses and Groundcovers for Landscapes of Arizona | CE | Turfgrass Science |
| 42 | Worku Burayu | Ayman Mostafa | Irrigated Alfalfa Response to P and K Fertilizers in the Low Desert Arizona | CE | Field Crops |
| 63 | Xian Wang | William Smith | Advance Understanding of Dryland Carbon Uptake Using Novel Remote Sensing Techniques | SNRE | carbon cycles and remote sensing |
| 66 | Yake Wang | Katerina Dontsova | Saturated Column Transport Studies of Insensitive and Traditional Munitions in Soil | SWES | Contaminant Transport in porous media |