Awards and Honors

Bialkowski, Stephen E

Senior Member, Optical Society of America, (June 26, 2014).

Brown, David E

College of Science Teacher of the Year, Utah State University, (February 2014).

Dennison, John Robert


Endres, Carla

Faculty of The Year, USU- Eastern, (August 18, 2014).

Ensign, Scott A

Institution Faculty/Staff of the Month Campus Winner, National Residence Hall Honorary, (March 1, 2014).

Huntly, Nancy J

Skaggs Alaska Scientist in Residence, Sitka Sound Science Center, (August 2014).

Malmendier, Andreas

Visiting Scholarship of the Faculty of Science, University of Alberta - Edmonton, (January 1, 2014).

Peak, David

First official "Friend of USU Honors", USU Honors Program, (March 11, 2014).

Ramirez, Ricardo A

USU Research and Graduate Studies Funding Agency Visit Program, USU Research and Graduate Studies, (2014).

Presidents Prize- MS student 1st place poster presentation, Entomological Society of America, (November 2014).

SACNAS Leadership Institute, Society for the Advancement of Chicanos and Native Americans in Science, (June 2014).

USU New Extension Specialist Award, USU Extension Specialists Association, (March 2014).

Stevens, John R

Editor's Choice Award, Oikos, (September 25, 2014).

Taylor, Michael John
COS Undergraduate Research Mentor, Dept of Physics, (April 11, 2014).

Publications/Intellectual Contributions

Alston, Diane G

A comparison of 16 summer-bearing raspberry cultivars for northern Utah, (February 2015), Utah State University Extension, 6 pp.

Walnut Husk Fly [Rhagoletis completa (Cresson)], (January (1st Quarter/Winter) 2015), Utah State University Extension, ENT-173-14, 7 pp.

Adaptability of floricanefruiting raspberry cultivars to a high-elevation, arid climate, (January (1st Quarter/Winter) 2015), Journal of American Pomological Society.


Onion ipmPIPE: A coordinated effort to improve the management of onion thrips and iris yellow spot virus for the US onion industry, (November 2014), Plant Health Progress, 15, 172-183.

Sweet Corn Production, (November 2014), Utah State University.

Six years of raspberry horntail research, berry condensed, (October (4th Quarter/Autumn) 2, 2014), Utah State University Extension and Utah Plant Pest Diagnostic Laboratory, 8, 4-5, 11.

Insect population outbreaks - why do they occur?, (July (3rd Quarter/Summer) 2014), Utah Pests News, Utah State University Extension, 8.

Apple maggot in Utah, (April (2nd Quarter/Spring) 2014), Utah Pests News, Utah State University Extension, 8.


Systems-based onion pest management in Utah, (January (1st Quarter/Winter) 2014), Utah State University Extension, 8.

A DNA marker to track Conotrachelus nenuphar (Coleoptera: Curculionidae) dispersal, (January (1st Quarter/Winter) 2014), Journal of Entomological Science, 49, 91-93.

Anderson, Anne J

The phytotoxicity of ZnO nanoparticles on wheat varies with soil properties, (October (4th Quarter/Autumn) 29, 2014), Biometals/Springer.

Components from wheat roots modify the bioactivity of ZnO and CuO nanoparticles in a soil bacterium, (January (1st Quarter/Winter) 2014), Environmental Pollution, 65-72.

**Anderson, Ian M**


**Antony, Edwin**

Context-Dependent Remodeling of Rad51-DNA Complexes by Srs2 Is Mediated by a Specific Protein-Protein Interaction, (May 1, 2014), Journal of Molecular Biology, 1, 1883-1897.

**Baker, Michelle A**

iSAW: Integrating Structure, Actors, and Water to Study Socio-Hydro-Ecological Systems, (March 2015), Earth's Future/AGU.


**Bernhardt, Scott A**

Sensor drift and predicted calibration intervals of handheld temperature and relative humidity meters under residential field-use conditions, (October (4th Quarter/Autumn) 2014), Journal of Environmental Health.

**Berreau, Lisa M**


Photochemical Reactivity of RuII(n6-p-cymene) Flavonolate Complexes, (November 2014), American Chemical Society, 33, 6341-6351.

**Bialkowski, Stephen E**


Unraveling the effects of radiation forces in water, (July (3rd Quarter/Summer) 7, 2014), Nature Communications, 5, 1-6.

Combined Photothermal Lens and Mirror Characterization of Polymers, (July (3rd Quarter/Summer) 1, 2014), Applied Spectroscopy, 68, 777-783.

Boldyrev, Alexander I


Paper Deciphering aromaticity in porphyrinoids via adaptive natural density partitioning, (July (3rd Quarter/Summer) 1, 2014), Organic & Biomolecular Chemistry, 12, 6145-6150.


All-Nitrogen Analogue of Ozone: Li3N3 Species, (April (2nd Quarter/Spring) 17, 2014), Chemistry A European Journal, 20, 6636-6640.


Complexes between planar boron clusters and transition metals: a photoelectron spectroscopy and ab initio study of CoB12- and RhB12-, (January (1st Quarter/Winter) 2014), J. Phys. Chem. A.


Brodie, Edmund D


A new salamander of the genus Chiropterotriton (Caudata: Plethodontidae) from the Sierra Madre Oriental of Tamaulipas, Mexico, (2014), South American Journal of Herpetology, 9, 228-234.


Developmental and evolutionary history affect survival in stressful environments, (2014), PLOS ONE, 9, e95174.


Parallel evolution of tetrodotoxin resistance in three voltage-gated sodium channel genes in the garter snake Thamnophis sirtalis., (2014), Molecular Biology and Evolution.

Tetrodotoxin concentrations within a clutch and across embryonic development in the eggs of the rough-skinned newt (Taricha granulosa), (2014), Toxicon, 90, 249-254.

Brown, David E


Callow-Heusser, Catherine A

Effects of parent training on knowledge of transition services for students with disabilities., (September 18, 2014), Career Development and Transition for Exceptional Individuals. (SAGE).

The Impact of Specialized Training for Teachers of the Deaf to Facilitate Listening and Spoken Language Skills of Children who are Deaf or Hard of Hearing in Underdeveloped Countries, (April (2nd Quarter/Spring) 2014), International Journal of Educational Research and Development.

Cangelosi, James S

Classroom Management Strategies: Gaining & Maintaining Students' Cooperation, (March 1, 2014).


Chang, Cheng-Wei Tom


Corcoran, Christopher D

Dementia caregivers’ coping strategies and their relationship to health and well-being: The Cache County Study, (February 2015), Aging & Mental Health, 19, 390-399.

Dementia severity and the longitudinal costs of informal care in the Cache County Population, (January (1st Quarter/Winter) 19, 2015), Alzheimer’s & Dementia.

Mitochondrial genomic variation associated with higher mitochondrial copy number: The Cache County Study on Memory Health and Aging., (2014), BMC Bioinformatics, 15, S86.


Use of diuretics is associated with reduced risk of Alzheimer’s disease: The Cache County Study., (May 9, 2014), Neurobiology of Aging, S0197-4580(14)00340-6 ???


Cortez, Michael Henry


Coster, Daniel C


Monitoring wildlife collisions in the information age: how smartphones can improve data collection, (October (4th Quarter/Autumn) 2014), Plos One, 9, 9 pages.

Professional development to enhance teachers' practices in using information and communication technologies (ICTs) as cognitive tools, (October (4th Quarter/Autumn) 2014), Computers and Education, 79, 15 pages.

Monitoring wildlife-vehicle collision in the information age: how smartphones can improve data collection, (June 2014), PLOS, 9.


Cutler, David Richard

Non-equilibrium in plant distribution models - only an issue for introduced or dispersal limited species?, (2014), 37.

Predicting Risk of Invasive Species Occurrence: Plot Based, (2014), USGS/NPS joint publication.


Dennison, John Robert


Dickenson, Nicholas E


Evans, Edward W


Infestation of grain fields and degree-day phenology of the cereal leaf beetle (Coleoptera: Chrysomelidae) in Utah: long-term patterns, (2014), Journal of Economic Entomology/Entomological Society of America, 107, 240-249.

Spatial and temporal dynamics of Aroga moth (Lepidoptera: Gelechiidae) populations and damage to sagebrush in shrub steppe across varying elevation, (2014), Environmental Entomology, 43, 1475-1484.

Evans, James P


Fejer, Bela Gyula


Fels, Mark Eric


French, Susannah


Confirmation and distribution of tetrodotoxin for the first time in terrestrial invertebrates: two terrestrial flatworm species (Bipalium adventitium and Bipalium kewense), (2014), PloS one, 9, e100718.

Confirmation and distribution of tetrodotoxin for the first time in terrestrial invertebrates: two terrestrial flatworm species (Bipalium adventitium and Bipalium kewense), (2014), PloS one, 9, e100718.
Developmental and evolutionary history affect survival in stressful environments, (2014), PLOS ONE, 9, e95174.

Tetrodotoxin concentrations within a clutch and across embryonic development in eggs of the rough-skinned newts (Taricha granulosa), (2014), Toxicon, 90, 249 - 254.


Gompert, Zachariah


Genome-wide association mapping of phenotypic traits subject to a range of intensities of natural selection in Timema cristinae, (2014), The American Naturalist, 183, 711-727.


Admixture and the organization of genetic diversity in a butterfly species complex revealed through common and rare genetic variants, (September 2014), Molecular Ecology, 23, 4555-4573.

Unexpected ancestry of Populus seedlings from a hybrid zone implies a large role for postzygotic selection in the maintenance of species, (September 2014), Molecular Ecology, 23, 4316–4330.

Gordillo, Luis Fernando

Pest persistence and eradication conditions in a deterministic model for sterile insect release, (2014), Journal of Biological Dynamics.


Grilley, Michelle Marie

Aminoglycoside and Azole Compositions and Methods, (2014), Google Patents.


Heavilin, Justin Ewing

The influence of spatially variable stream hydraulics on reach scale solute transport modeling, (October (4th Quarter/Autumn) 2014), Water Resources Research.

The sky is falling II: Impact of deposition produced during the static testing of solid rocket motors on corn and alfalfa, (June 2014), Science of the Total Environment, 482-483, 36-41.
Impact of deposition produced during the static testing of solid rocket motors on corn and alfalfa., (May 2014), SETAC.

**Hevel, Joan M**


Structural Determinants for the Strict Monomethylation Activity by Trypanosoma brucei Protein Arginine Methyltransferase 7, (2014), Structure.

**Huntly, Nancy J**

Ecological principles and guidelines for managing the use of land, (December 2014), Island Press.

**Janecke, Susanne U**


**Johnson, Sean J**

The Mtr4 ratchet helix and arch domain both function to promote RNA unwinding, (November 20, 2014), Nucleic Acids Research, 42, 13861-13872.

**Kapheim, Karen Maria**

Cultural evolution and emergent group-level traits through social heterosis, (2014), Behavioral and Brain Sciences, 37, 266-267.

**Kar, Tapas**


Competition between Carboxylic and Phenolic Groups for the Preferred Sites at the Periphery of Graphene – A DFT study, (2014), Carbon, 80, 405-418.

Do phenolic and carboxylic groups coexist at the tips of oxidized single-wall carbon nanotubes (o-SWNTs)?, (2014), Carbon, 73, 194-205.


**Kohler, Brynja R**

Assessing for Learning, (March 2015), Mathematics Teaching in the Middle School, 20, 424-433.

**Kropp, Bradley R**
Cercopemyces crocodilinus, a new genus and species related to Ripartilella is described from North America., (July (3rd Quarter/Summer) 1, 2014), Mycologia, 106, 785-796.

Lewis, Randy


Mechanical and physical properties of recombinant spider silk films using organic and aqueous solvents., (August 11, 2014), Biomacromolecules, 15, 3158-70.


Thermophysical properties of the dragline silk of Nephila clavipes spider, (April (2nd Quarter/Spring) 2014), Polymer, 55, 4226-4234.


Effects of different post-spin stretching conditions on the mechanical properties of synthetic spider silk fibers., (January (1st Quarter/Winter) 1, 2014), Journal of the mechanical behavior of biomedical materials, 29, 225-34.

Lowry, Anthony


Malmendier, Andreas

K3 surfaces, modular forms, and non-geometric heterotic compactifications, (2014).

Messina, Frank J

Specificity of adaptation to a novel host plant by a seed beetle, (November 2014), Entomologia Experimentalis et Applicatata, 153, 231-239.

Newell, Dennis Lowell


Nguyen, Nghiem Vinh


Nie, Zhaohu


Nischwitz, Claudia


Sweet Corn Production, (November 2014), Utah State University.

Bacterial spot of pepper, (October (4th Quarter/Autumn) 2014), USU Extension.

Damping-off, (October (4th Quarter/Autumn) 2014).

Pitts, James P

Müllerian mimicry as a result of codiversification between velvet ants and spider wasps, (November 2014), Evolution.


Assessing Species Boundaries and Sex-Associations in the Genus Drepanaporus (Hymenoptera: Pompilidae), With Comparison of the Utility of Cytochrome C Oxidase I and a Nuclear Molecular Marker, (January (1st Quarter/Winter) 1, 2014), Annals of the Entomological Society of America, 107, 709-720.

Müllerian mimicry as a result of codivergence between velvet ants and spider wasps, (January (1st Quarter/Winter) 1, 2014), PLoS One.

Podgorski, Gregory J


Powell, James A


Ramirez, Ricardo A

Be proactive about agronomic crop pests, (April (2nd Quarter/Spring) 2014), USU Utah Pests, 8.

Kill billbug: activity in turf and a new insecticide option, (October (4th Quarter/Autumn) 2014), USU Utah Pests, 8.

The curious case of parasitoids, (July (3rd Quarter/Summer) 2014), USU Utah Pests, 8.


The usual suspects for turf insects and research results in 2013, (January (1st Quarter/Winter) 2014), USU Utah Pests, 8.

Riffe, David Mark


Scheiner, Stephen I


Competition between Carboxylic and Phenolic Groups for the Preferred Sites at the Periphery of Graphene – A DFT study, (2014), Carbon, 80, 405-418.

Complexation of n SO2 Molecules (n=1,2,3) with Formaldehyde and Thioformaldehyde, (2014), J. Chem. Phys., 140, 034302.


Do phenolic and carboxylic groups coexist at the tips of oxidized single-wall carbon nanotubes (o-SWNTs)?, (2014), Carbon, 73, 194-205.


**Scherliess, Ludger**


**Schneiter, Kady**

Teaching statistics with lectures or activities: A comparative study, (July (3rd Quarter/Summer) 2014), International Conference on Teaching Statistics (ICOTS).

Using the GAISE Reports to Motivate Learning about Statistics Content and Pedagogy in A Course for Pre-service Math Teachers, (July (3rd Quarter/Summer) 2014), International Conference on Teaching Statistics (ICOTS).

**Schunk, Robert Walter**


**Seefeldt, Lance C**


Nitrite and Hydroxylamine as Nitrogenase Substrates: Mechanistic Implications for the Pathway of N2 Reduction, (September 2014), Journal of the American Chemical Society, 136, 12776–12783.


Substrate channel in nitrogenase revealed by a molecular dynamics approach, (April (2nd Quarter/Spring) 2014), Biochemistry, 53, 2278–2285.

**Shervais, John W**


**Sojka, Jan Josef**


Investigation of the seasonal and local time variations of high altitude sporadic Na layer (NAs) formation and the descending E layer (Es) in lower E region, (2014), Journal of Geophysical Research - Space Physics, 119, 5985-5999.


**Stark, John M**
The invasive annual cheatgrass increases nitrogen availability, (October (4th Quarter/Autumn) 2014), Oecologia /Springer Verlag.

**Stevens, John R**

An evaluation and replication of miRNAs with disease stage and colorectal cancer-specific mortality, (December 2014), International Journal of Cancer.


A shortcut for multiple testing on the directed acyclic graph of gene ontology, (November 2014), BMC Bioinformatics, 15, 349.


A shortcut for multiple testing on the directed acyclic graph of Gene Ontology, (October (4th Quarter/Autumn) 2014), BMC Bioinformatics, 15.

mvGST: multivariate and directional gene set testing, (October (4th Quarter/Autumn) 2014), Bioconductor.

Aflatoxicosis chemoprevention by probiotic Lactobacillius and lack of effect on the major histocompatibility complex., (September 30, 2014), Research in veterinary science, 97, 274-281.

Holm multiple correction for large-scale gene-shape association mapping, (June 2014), BMC Genetics, 15, S5.

**Sullivan, Kimberly A**


**Sun, Yan**


**Symanzik, Juergen**


Linked Micromap Plots for South America - General Design Considerations and Specific Adjustments, (2014), Revista Colombiana de Estadistica, 37, 450-469.


Soul of the Community: An Attempt to Assess Attachment to a Community, (2014).


Trends in Obesity at the National and Local Level among Korean Adolescents, (2014).


Takemoto, Jon Y

Three enzymes involved in the N-methylation and incorporation of the pradimicin sugar moieties, (January (1st Quarter/Winter) 15, 2015), Biorganic and Medicinal Chemistry Letters, 26, 1288-1291.

Aminoglycoside and Azole Compositions and Methods, (2014), Google Patents.


Taylor, Michael John


Coordinated investigation of mid-latitude upper mesospheric temperature inversion layers and the associated gravity wave forcing by Na lidar and Advanced Mesospheric Temperature Mapper at Logan, Utah (42°N), (April (2nd Quarter/Spring) 7, 2014), Journal of Geophysical Research (JGR), 119, 3756-3769.

Investigation of a mesospheric gravity wave ducting event using coordinated sodium lidar and Mesospheric Temperature Mapper measurements at ALOMAR, Norway (69° N), (August 27, 2014), Journal of Geophysical Research (JGR), 119, 9765-9778.


Torre, Charles Gregory

Rainich-type Conditions for Perfect Fluid Spacetimes, (December 25, 2014).

Foundations of Wave Phenomena (Version 8.0), (August 2014).

The Spacetime Geometry of a Null Electromagnetic Field, (February 3, 2014), Classical and Quantum Gravity, 31, 045022.

Wang, Zhi Qiang


Welker, Dennis L

Influence of polysorbate 80 and cyclopropane fatty acid synthase activity on lactic acid production by Lactobacillus casei ATCC 334 at low pH., (January (1st Quarter/Winter) 2014), Journal of industrial microbiology & biotechnology, 41, 545-553.
Wheeler, James Thomas

Gauge transformations of the biconformal connection, (December 31, 2014), Digital Commons.


Time and dark matter from the conformal symmetries of Euclidean space, (October (4th Quarter/Autumn) 16, 2014), Classical and Quantum Gravity, 31, 1 - 34.

Weyl gravity as general relativity, (July (3rd Quarter/Summer) 21, 2014), Physical Review D, 90, 025027-1 to 025027-7.

White, Ethan


Wilczynski, Dariusz M


Wolf, Paul G


Between Two Fern Genomes, (September 26, 2014), GigaScience, 3, 15.

Breeding System of the Threatened Endemic, Primula cusickiana var. maguirei (Primulaceae), (August 26, 2014), Plant Species Biology, 29, e55–e63.


Yuan, Tao


Coordinated investigation of mid-latitude upper mesospheric temperature inversion layers and the associated gravity wave forcing by Na lidar and Advanced Mesospheric Temperature Mapper at Logan, Utah (42°N), (April (2nd Quarter/Spring) 7, 2014), Journal of Geophysical Research (JGR), 119, 3756-3769.


A coordinated investigation of the gravity wave breaking and the associated dynamical instability by a Na lidar and an Advanced Mesosphere Temperature Mapper over Logan, UT (41.7° N, 111.8° W), (August 20, 2014), Journal of Geophysical Research (JGR), 119, 6852-6864.

Zhu, Lie


von Dohlen, Carol D


Müllerian mimicry as a result of codiversification between velvet ants and spider wasps, (November 2014), Evolution.

Assessing Species Boundaries and Sex-Associations in the Genus Drepanaporus (Hymenoptera: Pompilidae), With Comparison of the Utility of Cytochrome C Oxidase I and a Nuclear Molecular Marker, (January (1st Quarter/Winter) 1, 2014), Annals of the Entomological Society of America, 107, 709-720.

Müllerian mimicry as a result of codivergence between velvet ants and spider wasps, (January (1st Quarter/Winter) 1, 2014), PLoS One.

Intellectual Property

Chang, Cheng-Wei Tom

Aminoglycosides: synthesis and use as antifungals, USA8865665 B2, Regular Patent.

Takemoto, Jon Y

Aminoglycosides: synthesis and use as antifungals, USA8865665 B2, Regular Patent.

Contracts, Grants and Sponsored Research

Alston, Diane G

Coordinating IPM Successes in Utah’s Specialty Crops, Communities, and Schools, Funded, $315,000.00, (September 1, 2014 - August 30, 2017).

Biochar Amendment to Enhance Tomato and Melon Productivity and Protect Against Phytophthora Root Rot Disease, Funded, $49,994.00, (March 2014 - March 2017).

Survey for vegetable viruses and zebra chip disease, Funded, $29,671.00, (May 1, 2014 - April 30, 2016).

Onion systems management strategies for crop nutrition, weeds, thrips, and iris yellow spot virus, Funded, $169,299.00, (May 2013 - April 2016).
Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use, Funded, $9,500.00, (March 1, 2014 - March 1, 2016).


Tree fruit leafroller pests in Utah, Funded, $15,747.00, (January 2014 - December 2015).


Implementation of Cherry Fruit Fly Killing Stations to Reduce the Use of Hazardous Insecticides, Funded, $10,023.00, (January 1, 2013 - December 31, 2014).

Developing reduced input conventional orchard floor management options for soil quality, pests, and efficient water use, Funded, $9,500.00, (November 30, 2012 - November 30, 2014).

Coordinating IPM successes in Utah's specialty crops, communities, and schools, Funded, $70,000.00, (September 2013 - August 2014).

Utah vegetable production guide, Funded, $9,643.00, (July 2013 - June 2014).

Effects of Agricultural Landscapes on Population Dynamics of Onion Thrips and Iris Yellow Spot Virus, Funded, $19,646.00, (July 1, 2012 - June 30, 2014).

Pheromone-mediated management of of California prionus in hops and cherry via mating disruption, Funded, $25,000.00, (May 2013 - April 2014).

Anderson, Anne J

Plant-microbial interactions: effects of sublethal doses of nanoparticles, Funded, $500,000.00, (December 2011 - December 2015).

Anderson, Ian M


Baker, Michelle A

iUTAH-innovative Urban Transitions and Aridregion Hydro-sustainability, Funded, $20,000,000.00, (August 1, 2012 - July 31, 2017).

Utah EPSCoR RII Track-1: Interactions Among Water, Energy, and the, Funded, $20,000,000.00, (August 1, 2012 - July 30, 2017).

SF6 Analyses, Funded, $64,591.00, (October 2014 - October 2015).

Translational Ecology - A Pedagogical Framework to Integrate Natural and Social Science, Funded, (September 2013 - August 2015).

A preliminary organic matter budget for the Jordan River, UT, Funded, $227,000.00, (March 2012 - December 2014).

Bernhardt, Scott A


Adaptive responses to climate change in our backyard: Drivers of life history variation in the Uinta Ground Squirrel, Funded, $20,000.00, (July 2013 - June 2014).

Berreau, Lisa M

MRI: Acquisition of a 500 MHz NMR to Enhance Research and Training, Funded, $385,000.00, (August 1, 2014 - July 31, 2017).


Callow-Heusser, Catherine A

Development and Evaluation of a Masters-Level, Interdisciplinary, Transition Specialist Preparation Program, Funded, $700,000.00, (January 2010 - June 2015).

Chang, Cheng-Wei Tom

MRI: Acquisition of a 500 MHz NMR to Enhance Research and Training, Funded, $385,000.00, (August 1, 2014 - July 31, 2017).

Chemoenzymatic synthesis of pradimicin analogues for novel antifungal and antiviral agents, Funded, $421,787.00, (December 2010 - November 2014).

Bioprospecting for Enzymes to Break Lignin-Hemicellulose Bonds, Funded, $300,000.00, (September 2011 - August 2014).

K20-Azole Combinations as Therapeutic and Crop Protectants, Funded, $47,787.00, (February 2013 - January 2014).

Chen, Liaohai


Corcoran, Christopher D

miRNA and colorectal cancer: Associations with tumor phenotype and survival, Funded, $1,250,000.00, (July 2012 - June 2017).

Pleiotropic and interaction effects on Alzheimer’s disease risk and progression, Funded, $1,250,000.00, (July 2012 - June 2017).

Prenatal and Neonatal Biologic Markers for Autism, Funded, $576,008.00, (July 2010 - June 2015).

Coster, Daniel C

Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms, Funded, $2,500,000.00, (September 1, 2010 - August 31, 2015).
Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms, Funded, $2,489,331.00, (September 2010 - August 2015).

Cutler, David Richard

System for Mapping And Predicting Species Of Concern (SMAP-SOC), Funded, $199,000.00, (January 2014 - December 2014).

Dennison, John Robert

Education Partnership Agreement Between the Department of The Air Force (AFRL/RVBXR Space Vehicles Directorate, Battle Space Environments Division, Space Particles Section) and Utah State University, Funded, $0.00, (November 2014 - November 2019).


Cathodoluminescence Events Coincident with Muon Detection, Funded, $700.00, (September 2014 - June 2015).


Electrostatic Discharge Breakdown Analyses, Funded, $1,000.00, (March 15, 2014 - December 30, 2014).

Electrostatic Breakdown and Pre-acing of Highly Disordered Insulating Materials, Funded, $5,000.00, (May 2014 - August 2014).

Space Plasma Environment Induced Luminescence of Materials on Space Based Observatories, Funded, $129,455.00, (September 1, 2012 - August 31, 2014).

UV Materials Degradation Tests, Funded, $1,000.00, (April 15, 2014 - June 30, 2014).

Dickenson, Nicholas E

Lipid raft effects on Shigella type III secretion system-based interactions, Funded, $268,400.00, (August 1, 2013 - July 31, 2015).

Ernest, Sarah Kelson Morgan

Reversing long-term experiments to understand regime shifts, Funded, $740,000.00, (March 2014 - February 2019).


Evans, Edward W

Biological Control of Noxious Weeds in Utah, Funded, $60,000.00, (August 2011 - July 2016).


Cereal Leaf Beetle Biocontrol, Funded, $6,699.00, (January 1, 2014 - December 31, 2014).

Fejer, Bela Gyula


French, Susannah


Adaptive responses to climate change in our backyard: Drivers of life history variation in the Unita Ground Squirrel, Funded, $20,000.00, (July 2013 - June 2014).

Geer, Nathan C

Collaboration Grants for Mathematicians Project Title: NON-SEMI-SIMPLE QUANTUM TOPOLOGY, Funded, $35,000.00, (September 2013 - September 2018).

Quantum topology, via re-normalized invariants, Funded, $148,404.00, (June 15, 2013 - June 15, 2016).

Gilbertson, Timothy A

Fatty Acid Receptors in Gustation, Funded, $1,468,570.00, (June 1, 2014 - May 31, 2019).

Non-ENaC mediated salt taste, Funded, $106,489.00, (2012 - 2016).

A combined TERS and functional cellular imaging approach to explore receptor function, Funded, $300,000.00, (July 1, 2013 - June 30, 2016).


The role of chemosensory pathways in food intake, Funded, $487,750.00, (January 1, 2014 - December 31, 2015).

MRI: Acquisition of a Mask Aligner and a Pattern Generation System for Nanoscale Science and Device Research, Funded, $144,380.00, (January 1, 2011 - December 31, 2014).

Gompert, Zachariah
Investigating the evolution of color mimicry in velvet ants through population genomics, Funded, $10,000.00, (May 2014 - May 2015).

**Gordillo, Luis Fernando**


**Hengge, Alvan C**

MRI: Acquisition of a 500 MHz NMR to Enhance Research and Training, Funded, $385,000.00, (August 1, 2014 - July 31, 2017).

**Hevel, Joan M**

Effects of extracts on PRMT1 activity, Funded, $1,500.00, (April 2014 - 2014).

Optimization of a PRMT1 Immunoprecipitation Assay., Funded, $6,500.00, (2014).

ROLE OF PROTEIN ARGinine METHYlation IN ARABIDOPSIS THALLANA, Funded, $250,000.00, (July 1, 2007 - June 30, 2014).

**Huntly, Nancy J**

Artist + Scientist = An Amalgamative Approach to Ecological Public Art, Funded, $90,000.00, (January 1, 2015 - October 2015).

**Johnson, Sean J**

MRI: Acquisition of modern x-ray diffraction equipment to enhance research and training, Funded, $313,156.00, (July 15, 2012 - June 30, 2015).

REU supplement for CAREER:Structural Studies of Ski2-like RNA Helicases, Funded, $6,000.00, (April 1, 2014 - March 31, 2015).

CAREER: STRUCTURAL STUDIES OF SKI2-LIKE RNA HELICASES, Funded, $1,063,224.00, (April 1, 2010 - March 31, 2015).

Biochemical and Structural Characterization of the NEXT Complex, Funded, $20,000.00, (January 2014 - December 2014).

REU supplement for CAREER:Structural Studies of Ski2-like RNA Helicases, Funded, $7,000.00, (April 1, 2013 - March 31, 2014).

**Kapheim, Karen Maria**

Forging Connections In the Study of Pollinator Behavior, Biology and Health at the 17th International Congress of the International Union for the Study of Social Insects, Funded, $10,000.00, (June 2014 - December 2014).

**Kropp, Bradley R**

Phylogenetic relationships and species concepts for selected mycorrhizal root symbionts, Funded, (July 1, 2011 - July 1, 2016).

Baseline inventory of mycological resources on BLM lands in Wyoming and establishment of plots to monitor long term response to climate change, Funded, (June 1, 2012 - June 1, 2015).
**Lewis, Randy**

Spider Silk Proteins, Funded, $150,000.00, (November 2014 - September 2017).

Novel Biomimetic Nanostructured Materials Based on Synthetic Spider, Funded, $382,000.00, (July 2014 - June 2017).


Spider silk MaSp1 and MaSp2 proteins a carbon fiber precursors, Funded, $1,988,042.00, (October 2014 - September 2016).

Electrospinning spider silk proteins, Funded, $299,999.00, (June 2013 - July 2016).

Spider Silk Protein Threads, Funded, $150,000.00, (December 2013 - December 2015).


Partnerships to Develop Spider Silk Products, Funded, $599,777.00, (August 2013 - August 2015).

**Lowry, Anthony**

Collaborative Research: Deciphering the Structure and Evolution of North America's Cratonic Core, Funded, $46,500.00, (January 1, 2013 - December 31, 2015).


Collaborative Research: Deformation Processes in the Andaman Islands, Funded, $111,271.00, (July 1, 2011 - June 30, 2014).

**Mott, Keith A**

Integrated Stomatal Responses to Environmental Input, Funded, $524,502.00, (September 1, 2011 - August 31, 2016).

**Nischwitz, Claudia**

Evaluation of new products for management of fire blight in apple and pear orchards in Utah, Funded, $6,005.00, (April 1, 2014 - September 29, 2016).

Survey for vegetable viruses and zebra chip disease, Funded, $29,671.00, (May 1, 2014 - April 30, 2016).

Onion systems management strategies for crop nutrition, weeds, thrips, and iris yellow spot virus, Funded, $169,299.00, (May 2013 - April 2016).


Thousand cankers resistance screening, Funded, $1,483.00, (June 1, 2014 - November 30, 2015).

Managing IYSV in onion fields by targeting weedy virus reservoirs and reproductive hosts for onion thrips, Funded, $61,574.00, (August 1, 2010 - July 30, 2015).
Diagnostic support, Funded, $13,750.00, (July 1, 2014 - June 30, 2015).

Orchard survey for insects, Plum pox virus and Monilinia polystroma, Funded, $17,500.00, (July 1, 2014 - June 30, 2015).

Solanecous survey, Funded, $10,750.00, (July 1, 2014 - June 30, 2015).

Detection, identification and diagnostics of viruses affecting Utah vegetable crops, Funded, $19,832.00, (June 1, 2013 - May 31, 2015).

Improved nutrition management of dry bulb onions in Utah through crop rotation and precision fertilization, Funded, $13,392.00, (April 1, 2013 - March 31, 2015).

Effect of Micronutrients on Iris Yellow Spot Virus of Onion, Funded, $69,960.00, (March 1, 2013 - February 28, 2015).

Alfalfa Stem Nematode Resistance as a Tool To Ameliorate Crop Losses, Funded, $1,540.00, (February 2014 - December 2014).

Alfalfa Stem Nematode Resistance as a Tool To Ameliorate Crop Losses, Funded, $1,802.00, (March 2013 - December 2014).

Identification and Detection of Vegetable and Tree Fruit Diseases, Funded, $4,000.00, (May 1, 2014 - August 31, 2014).

Diagnostic support, Funded, $13,200.00, (July 1, 2013 - June 30, 2014).

Survey for the bacterium Candidatus Liberibacter solanacearum in Utah, Funded, $8,470.00, (July 1, 2013 - June 30, 2014).

Utah vegetable production guide, Funded, $9,643.00, (July 2013 - June 2014).

Zebra chip disease survey, Funded, $5,000.00, (July 1, 2013 - June 30, 2014).

Effects of Agricultural Landscapes on Population Dynamics of Onion Thrips and Iris Yellow Spot Virus, Funded, $19,646.00, (July 1, 2012 - June 30, 2014).

**Peak, David**

Integrated Stomatal Responses to Environmental Input, Funded, $524,502.00, (September 1, 2011 - August 31, 2016).

**Pederson, Joel L**

Development of spatially-referenced, mobile-device software applications for geoscience education using the Colorado Plateau as a virtual classroom, Funded, $240,737.00, (September 2013 - August 2015).

**Powell, James A**

Landscape-Scale Enhanced Mountain Pine Beetle & Climate Chang Threat Assessment, Funded, $91,613.00, (July 28, 2009 - December 30, 2015).

**Ramirez, Ricardo A**

Understanding the role of alternative host plants used by two invasive insects, spotted wing drosophila and brown marmorated sting bug in Utah, Funded, $19,958.00, (2014 - 2017).

Support for a local chapter of SACNAS, Funded, $15,000.00, (2013 - 2016).


Western States Proposal to Develop Online Training Modules for Pesticide Applicators Recertification, Funded, $48,000.00, (2014 - 2015).

Insect Management Intern, Funded, $5,000.00, (May 2014 - June 2015).

Interactions between drought and neonicotinoid insecticides on spider mite outbreaks in corn, Funded, $20,000.00, (July 1, 2013 - June 30, 2015).

Using mustard green manure to improve stem nematode and clover root curculio management in alfalfa, Funded, $10,000.00, (June 2014 - May 2015).

Using mustard green manure to improve stem nematode and clover root curculio management in alfalfa, Funded, $10,000.00, (June 1, 2014 - May 30, 2015).

Alfalfa Stem Nematode Resistance as a Tool To Ameliorate Crop Losses, Funded, $1,540.00, (February 2014 - December 2014).


Imported fire ant survey, Funded, $10,019.00, (January 2014 - December 2014).

Small Grains Survey, Funded, $12,621.00, (January 2014 - December 2014).

Cooperative Agricultural Pests Survey (CAPS) Core Project, Funded, $69,284.00, (July 1, 2013 - 2014).

Alfalfa Stem Nematode Resistance as a Tool To Ameliorate Crop Losses, Funded, $1,802.00, (March 2013 - December 2014).

A survey of insect by-catch in alfalfa and corn fields in Utah, Funded, $10,000.00, (May 2013 - June 2014).

Insect Management Intern, Funded, $5,000.00, (May 2013 - June 2014).

Rittenour, Tammy M

WaterSMART: Building decadal prediction of extreme climate for managing water supply in Intermountain West, Funded, $294,990.00, (September 1, 2013 - August 31, 2015).

**Rowley, Eric R**

Support and Mentoring in an Alternative Route to Licensure, Funded, (July 1, 2014 - June 30, 2015).

Utah Mathematics Endorsement Project, Funded, $70,000.00, (July 1, 2014 - June 30, 2015).

**Scherliess, Ludger**

Physical Processes Governing Energy and Momentum Flows on Multiple Scales in Near-Earth Space Using a First-principles-based Data Assimilation System (DAS) for the Global Ionosphere, Funded, $1,300,000.00, (May 1, 2013 - April 30, 2018).

OPAL: Optical Profiling of the Atmospheric Limb, Funded, $900,000.00, (October 2013 - October 2016).

Systems Engineering, Management and Sustainment Program II, Funded, $284,500.00, (March 10, 2014 - April 6, 2015).

USU Support for ARMAS Phase II, Funded, $91,000.00, (April 30, 2012 - April 29, 2014).


**Schunk, Robert Walter**

Physical Processes Governing Energy and Momentum Flows on Multiple Scales in Near-Earth Space Using a First-principles-based Data Assimilation System (DAS) for the Global Ionosphere, Funded, $1,300,000.00, (May 1, 2013 - April 30, 2018).

Systems Engineering, Management and Sustainment Program II, Funded, $284,500.00, (March 10, 2014 - April 6, 2015).

**Seefeldt, Lance C**

Biological Electron Transfer and Catalysis (BETSy), Funded, $10,000,000.00, (September 1, 2014 - August 31, 2018).

Role of P clusters and FeMo-cofactor in nitrogenase catalysis, Funded, $450,000.00, (September 1, 2013 - August 31, 2016).

Upgrading Glanbia Delac to High Value Products, Funded, $199,000.00, (September 1, 2013 - August 30, 2016).

Nitrogenase Reduction of CO2 to hydrocarbons, Funded, $760,000.00, (August 15, 2013 - August 14, 2016). 

NITROGENASE MECHANISM, Funded, $968,700.00, (April 1, 2004 - March 31, 2014).

**Shen, Tsung-Cheng**


RGS Equipment Grant: Establishing Reactive Ion Etching System at NDL, Funded, $60,000.00, (June 2014 - June 2015).

MRI: Acquisition of a Mask Aligner and a Pattern Generation System for Nanoscale Science and Device Research, Funded, $144,380.00, (January 1, 2011 - December 31, 2014).

NIST Summer Undergraduate Research Fellowship, Funded, $11,609.00, (May 27, 2014 - August 8, 2014).

Acquisition of a plasma etcher, Funded, $30,000.00, (May 15, 2014 - June 30, 2014).

Fabrication of Carbon Nanotube Enhanced Bolometers, Funded, $15,000.00, (March 1, 2013 - February 28, 2014).

Shervais, John W


Play Fairway Analysis of the Snake River Plain, Idaho, Funded, $500,000.00, (October 1, 2014 - September 30, 2015).

Spears, Lori Rena

Understanding the role of alternative host plants used by two invasive insects, spotted wing drosophila and brown marmorated sting bug in Utah, Funded, $19,958.00, (2014 - 2017).


Orchard survey for insects, Plum pox virus and Monilinia polystroma, Funded, $17,500.00, (July 1, 2014 - June 30, 2015).

Solanecous survey, Funded, $10,750.00, (July 1, 2014 - June 30, 2015).

Stark, John M

Regulation of microbial growth efficiency in rangeland soils, Funded, $85,000.00, (July 1, 2013 - June 30, 2018).


Analysis of organic matter from wetland soils, algae, and vegetation, Funded, $35,000.00, (September 2013 - July 2015).

Stevens, John R

miRNA and colorectal cancer: Associations with tumor phenotype and survival, Funded, $1,250,000.00, (July 2012 - June 2017).
miRNA and Colorectal Cancer: Associations with Tumor Phenotype and Survival, Funded, $6,649,396.00, (September 8, 2012 - June 30, 2017).

Impact of typical Western diet on cancer prevention by green tea using a multi-generation model of colorectal cancer, Funded, $500,000.00, (January 2014 - December 2016).

Reproductive Performance in Domestic Ruminants, Funded, $92,500.00, (July 1, 2011 - September 30, 2016).

Genome programming and embryo survivability in porcine somatic cell nuclear transfer embryos, Funded, $499,290.00, (September 1, 2013 - August 31, 2016).

Genome reprogramming and embryo survivability in porcine somatic cell nuclear transfer embryos, Funded, $499,290.00, (September 2013 - August 2016).

**Sun, Yujie**

MRI: Acquisition of a 500 MHz NMR to Enhance Research and Training, Funded, $385,000.00, (August 1, 2014 - July 31, 2017).


Hydrogen Evolution from Neutral Water Catalyzed by Earth-Abundant Metal Chalcogenides, Funded, $15,000.00, (March 1, 2014 - February 28, 2015).


**Takemoto, Jon Y**

Evaluation of new products for management of fire blight in apple and pear orchards in Utah, Funded, $6,005.00, (April 1, 2014 - September 29, 2016).


Novel Antifungal Aminoglycolipids: Action and Bioactivities, Funded, $26,000.00, (July 1, 2012 - June 30, 2014).


**Taylor, Michael John**


Collaborative proposal: Dynamics in the mesosphere and lower thermosphere over the Andes Lidar Observatory, Funded, $200,000.00, (April 1, 2012 - March 31, 2017).

OPAL: Optical Profiling of the Atmospheric Limb, Funded, $900,000.00, (October 2013 - October 2016).

1 year cost supplement: Development of an Antarctic gravity wave imaging network (ANGWIN), Funded, $66,832.00, (June 15, 2014 - May 31, 2015).

Investigating Wave Driven Mesospheric Dynamics Over South Pole Using an Advanced Mesospheric Temperature Mapper, Funded, $239,557.00, (June 1, 2012 - May 31, 2015).

1 year cost supplement to: Collaborative Research: CEDAR: Gravity wave momentum fluxes ALOMAR, Funded, $20,588.00, (February 1, 2014 - January 31, 2015).


Collaborative grant: Development of airborne lidar and temperature mapper "facility" instruments for the NSF GV and measurements during SAANGRIA, Funded, $400,000.00, (October 1, 2010 - September 30, 2014).

Collaborative proposal: An investigation of wave dynamics in the Arctic mesosphere and coupling between the lower and upper polar atmosphere, Funded, $82,786.00, (September 1, 2010 - August 31, 2014).

Development of an Antarctic gravity wave imaging network (ANGWIN), Funded, $370,403.00, (June 15, 2011 - May 31, 2014).

Torre, Charles Gregory


Welker, Dennis L


Enhancing the value of biofuels derived from algae and perennial grass feedstocks through integration of a lactic acid fermentation., Funded, $999,875.00, (January 2011 - January 2016).

White, Ethan


Wolf, Paul G

Estimation of Eriogonum corymbose var. nilesii. Range, Funded, $80,000.00, (August 2012 - July 2017).


Origins of Galapagos Pteridium, Funded, $12,000.00, (April 2013 - 2016).

Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms, Funded, $2,500,000.00, (September 1, 2010 - August 31, 2015).
Cyber-enabled Learning: Digital Natives in Integrated Scientific Inquiry Classrooms, Funded, $2,489,331.00, (September 2010 - August 2015).

Latitudinal variance in aspen (Populus tremuloides) transcriptomes, Funded, $115,700.00, (September 2009 - September 2014).

von Dohlen, Carol D


Digitization of the U.S. National Pollinating Insects Collection, Funded, $21,000.00, (September 2013 - August 2015).

Digitization of the U.S. National Pollinating Insects Collection, Funded, $21,000.00, (September 2011 - August 2015).

Genome evolution and functional roles of obligate bacterial symbiont of Adelgidae (Hemiptera: Sternorrhyncha), Funded, $20,000.00, (July 2014 - June 2015).

Genomics and supporting studies of bacterial endosymbiont roles in the virulence of adelgid pests of conifers, Funded, $20,000.00, (July 2013 - June 2015).

Presentations and Posters

Alston, Diane G


On Farm Studies, December 3, 2014.

Field and farmscape management effects on Thrips tabaci and Iris yellow spot virus transmission in onion, November 16, 2014.

Current insect topics for the gardener, February 13, 2014.

Beneficial insects and pollinators: how to attract and conserve, September 5, 2014.

Insect research update: tree fruits, raspberry, and onion, August 13, 2014.

Nation ipmPIPE and Western SARE Onion Projects Update: Onion Thrips Research, August 12, 2014.


Onion Border Control: Waging War on Thrips, July 17, 2014.

Tree fruit pest management update sessions, March 11, 2014.

Organic peach arthropod research update, June 16, 2014.

General principles of organic arthropod management, April 16, 2014.

Landscape- and field-scale effects on thrips and iris yellow spot virus in onion systems, April 6, 2014.


Corn earworm monitoring and insect vectors of vegetable diseases, February 19, 2014.


Tree insect problems: scale, aphids, and borers, February 10, 2014.

Tree fruit insect management update, February 5, 2014.

An update of organic peach research at Utah State University, January 30, 2014.

Western cherry fruit fly research update, January 22, 2014.

Bark beetles, January 15, 2014.

Enhancement of insecticides with sugar baits for control of western cherry fruit fly, January 8, 2014.

**Anderson, Anne J**


**Anderson, Ian M**


Googling Einstein, November 17, 2014.

Googling Einstein, November 12, 2014.


Introduction to DifferentialGeometry with Maple, November 11, 2014.

A Brief Introduction to the Geometry of PDE and E. Cartan's papers of 1910 and 1911, August 20, 2014.

Googling Einstein, August 20, 2014.

Introduction to DG software, August 20, 2014.

Parabolic Geometries of Monge Type, June 4, 2014.

Introduction to the Variational Bicomplex, April 11, 2014.


**Antony, Edwin**


**Baker, Michelle A**


Lost in translation: adventures in applied ecosystem ecology and combat science, November 11, 2014.

Lost in translation: adventures in applied ecosystem ecology and combat science, September 17, 2014.

Characterization of organic matter to an urban river, May 2014.

Characterization of organic matter to an urban river, May 2014.

Real-time monitoring of water quality in urbanizing Utah, May 2014.

Applying tools from ecosystem ecology to water quality management: case studies from Utah, April 2013.


Sources of uncertainty in nutrient sampling below a point source, April 2014.

**Bernhardt, Scott A**

Evaluation of methoprene, an insect growth regulator, to potential development of resistance in Culex tarsalis and Culex pipiens mosquitoes, October 2014.

Target-site insensitivity and metabolic detoxification mechanisms of insecticide resistance in Phlebotomus papatasi and Lutzomyia longipalpis sand flies (Diptera: Psychodidae), September 2014.


Comparison of continuous and single-point measurement of residential air temperature and relative humidity, April 2014.

Characterizing the molecular mechanisms of insecticide resistance in Phlebotomus papatasi and Lutzomyia longipalpis sand flies., April 17, 2014.

The value of past and future research in vector control to public health – local, regional, and international strategies to reduce potential disease transmission., March 28, 2014.

**Berreau, Lisa M.**

Photoinduced CO-release reactivity of Ru(II) flavonolate complexes, August 2014.

Flavonols as Photoinduced CO Release Agents: Metal Coordination Effects on Reactivity, January 26, 2014.

**Boldyrev, Alexander I**

Multicentered Bonding in Clusters, Molecules and Materials, April 21, 2014.


Alkane-like structures of Li2Al2H6 and Li3Al3H8, June 22, 2014.

**Brown, David E**

Chordal Graphs aren't Cycle Extendable ... So What?, July 2014.


Cocomparability Interval 2- and 3-Graphs, March 5, 2014.

**Callow-Heusser, Catherine A**


Just the facts, Ma’am: When college students are underprepared for math., November 2014.

Building success when college students are underprepared for math, November 2014.

External feedback in evaluating education research – Innovative approaches for evaluating different types of educational research, October 2014.

Innovative ways to acquire external feedback – Effectively engaging an advisory board in evaluation, October 2014.

Using the Home Visit Rating Scale (HOVRS-A+) to compare tele-intervention and in-person intervention in children with hearing loss, November 15, 2013.

Evaluating research projects: Different perspectives and actions, October 2013.

Managing competing evaluation demands when stakeholder interests and cultural responsiveness are potentially misaligned, October 2013.

Caught in the crosshairs: Evaluation of the Bureau of Indian Education's Reading First program, April 2013.

Validation of hearing screening procedures in Ecuadorian schools, July 25, 2014.

Validation of hearing screening procedures in Ecuadorian schools, June 6, 2014.

**Carlson, Herbert Christian**

Flow Channel and Velocity Shear Impacts on the Thermospheric CUSP, with Associated Neutral Upwelling, December 15, 2014.
Chang, Cheng-Wei Tom

Synthesis of bioactive 1-alkyl-1H-naphtho[2,3-d][1,2,3]triazole-4,9-diones and N-aryl-2-aminomethylene-1,3-indanediones using water as the solvent, August 10, 2014.

New Applications of Amphiphilic Aminoglycosides, August 5, 2014.


Synthesis of bioactive 1-alkyl-1H-naphtho[2,3-d][1,2,3]triazole-4,9-diones and N-aryl-2-aminomethylene-1,3-indanediones using water as the solvent, February 12, 2014.

Corcoran, Christopher D


Exact Nonparametric Inference for Correlated Categorical Data, April 7, 2014.


Permutation-Based Tests and Rare Variants in Genetic Association Studies, March 20, 2014.

Doctoral Research Programs in Statistics at Utah State University, February 2014.

Cortez, Michael Henry

The effects of transmission mode on disease dynamics: Inferring transmission mode from time series data, April 2014.

The eco-evolutionary dynamics of predator-prey systems: How does (co)evolution alter community level population dynamics?, February 2014.

The eco-evolutionary dynamics of predator-prey systems: How does (co)evolution alter community level population dynamics?, February 2014.

The eco-evolutionary dynamics of predator-prey systems: How does (co)evolution alter community level population dynamics?, February 2014.

The effects of transmission mode on disease dynamics: Inferring transmission mode from time series data, February 2014.


The effects of transmission mode on disease dynamics: Inferring transmission mode from time series data, January 2014.
The eco-evolutionary dynamics of predator-prey systems: How does (co)evolution alter community level population dynamics?, December 2013.

**Coster, Daniel C**


**Das, Siddhartha**


**Dennison, John Robert**

Etude sous irradiation électronique des propriétés physiques et électriques de céramiques pour application spatiale, November 2014.

Pre-breakdown Arcing and Electrostatic Discharge in Dielectrics under High DC Electric Field Stress, October 2014.

Cathodoluminescence Studies of the Density of States of Disordered Silicon Dioxide., October 2014.

Cathodoluminescence Events Coincident with Muon Detection, October 2014.

Electrostatic Discharge Breakdown Analyses, October 2014.

Modeling the Energy Dependent Cathodoluminescent Intensity of a Carbon Composite Material, October 2014.

Pre-breakdown Arcing and Electrostatic Discharge in Dielectrics under High DC Electric Field Stress, October 2014.

Space Effects Survivability Testing, October 2014.


Dual-defect Model of Electrostatic Discharge in Polymeric Dielectrics, September 2014.


Small Satellite Space Environments Effects Test Facility, August 2014.

Defects Density of States Model of Cathodoluminescent Intensity and Spectra of Disordered SiO2, June 2014.

Density of State Models and Temperature Dependence of Radiation Induced Conductivity, June 2014.

Electrostatic Discharge and Endurance Time Measurements of Spacecraft Materials: A Defect-Driven Dynamic Model, June 2014.


The Dynamic Interplay Between Spacecraft Charging, Space Environment Interactions and Evolving Materials, June 2014.

8th Annual USU Space Dynamics Laboratory IR&D Enabling Technologies Demonstration Day, June 2014.


Electrostatic Discharge Breakdown Analyses, April 11, 2014.


Stochastic Variations of Cathodoluminescent Intensity of Bisphenol/Amine Epoxy Exposed to Energetic Electron Bombardment, April 11, 2014.


**Dickenson, Nicholas E.**

Biophysical insights into the interface between Shigella flexneri and host cell membranes, November 7, 2014.

Characterization of Type III Secretion System Tip Proteins, September 20, 2014.

Effects of Shigella flexneri Infection on Major Vault Protein Expression and Localization in HeLa cells, September 20, 2014.

Probing the effects of lipid phase order on the localization of Shigella type III secretion system translocon proteins in artificial membranes, September 20, 2014.

Purification and Characterization of Shigella Invasion Plasmid Antigen C (IpaC), September 20, 2014.

Fluorescence polarization provides insights into the first steps of Salmonella type III secretion system tip maturation, April 10, 2014.

Probing the effects of lipid phase order on the localization of Shigella type three secretion system translocon proteins in artificial membranes, April 10, 2014.

Biophysical insights into the interface between Shigella flexneri and host cell membranes, March 7, 2014.

Invasion Plasmid Antigen B: A Portal of Entry for Shigella Type III Effectors, January 21, 2014.

**Ernest, Sarah Kelson Morgan**

Time: The Final Frontier (in Ecology), February 24, 2014.


Biotic responses to shifting ecological drivers in a desert community, August 6, 2013.

**Evans, Edward W**

Minds of their own: encouraging ladybird beetles as biological control agents, November 19, 2014.
Farley, Carl B
Presenter, May 2014.

Fejer, Bela Gyula
Equatorial post-sunset plasma irregularities as seen from the SWARM constellation mission, December 18, 2014.
Scientific highlights from the SWARM electric field instruments, December 18, 2014.
Sudden stratospheric warming effects on L1 scintillation at low latitude during quiet and magnetically disturbed periods, December 15, 2014.
Satellite and radar studies of low latitude ionospheric electrodynamics, November 5, 2014.
Satellite and radar studies of low latitude ionospheric electrodynamics, October 15, 2014.
prereversal enhancement of the equatorial vertical drifts observed from digisonde data during sudden stratospheric warming, September 10, 2014.
Equatorial and low latitude plasma irregularities, June 26, 2014.
Equatorial plama irregularities: relation between latitude distribution and apex height as observed by LEO satellites and Jicamarca radar, June 19, 2014.

French, Susannah

Geer, Nathan C
Invited Lecture Series, March 2014.

Gilbertson, Timothy A
SERS-fluorescence bimodal nanoprobes for imaging of HEK293 cells expressing GPR120, June 22, 2014.

Gompert, Zachariah
Genomic insights into the organization and structure of biological diversity in a butterfly species complex, March 26, 2014.
Stick insect genomes reveal the early stages of parallel speciation, January 2014.
Population genomics helps answer key questions about biological diversity and evolution in a rapidly changing world, October 2013.

Gordillo, Luis Fernando
Pest persistence and eradication conditions in a deterministic model for sterile insect release, 2014.

Mathematical modeling in pest control, April 2014.

Modelizacion matematica: impacto y nuevas perspectivas en el manejo integrado de plagas, March 2014.

**Grilley, Michelle Marie**


**Heavilin, Justin Ewing**

Impact of deposition produced during the static testing of solid rocket motors on corn and alfalfa, May 11, 2014.

Capturing the effects of spatially variable stream hydraulics in solute transport modeling, April 2014.

**Hengge, Alvan C**

Catalysis in Loop-Exchanged Chimeras of Protein-Tyrosine Phosphatases, June 22, 2014.

The effect of mutations on protein motion and small molecule inhibition in the PTP YopH, June 22, 2014.

Catalysis in Protein-Tyrosine Phosphatases is Regulated by Protein Loop Dynamics, May 22, 2014.

There, and Back Again: Closing the Loop in Protein-Tyrosine Phosphatases, February 2, 2014.

**Hevel, Joan M**

Effects of Oxidation and Reduction on the Activity and Oligomerization of PRMT1, 2014.

Redox control of Protein Arginine Methyltransferase I (PRMT1) activity, October 2014.


Investigating small molecule regulators of PRMT1, September 21, 2014.

Redox Control of Protein Arginine Methyltransferase 1 (PRMT1) Activity, September 21, 2014.

Understanding type III PRMT activity, September 21, 2014.

Exploring the effect of oxidation on PRMT1 activity, April 2014.

Biological methylation signals—how are they governed in protein arginine methyltransferase 1 (PRMT1)?, February 6, 2014.
Huntly, Nancy J

Effects of herbivory on big sagebrush (Artemisia tridentata) depend on climate, August 2013.

Ecological Research from a Truly Long-Term Perspective: What needs to be done today to support ecological analysis in 2100?, September 2012.

The AERC as an educational vehicle linking ecosystem research to public policy through hands-on training, congressional briefings, and Capitol Hill office visits, August 2014.

Johnson, Sean J


Characterizing the Multiple Binding Interactions of Air1 and Air2 from S. cerevisiae, September 20, 2014.


Initial Biochemical and Structural Characterization of Frequency-interacting RNA Helicase, an Mtr4-like Protein, September 20, 2014.

Characterization of the SAM-dependent N-methyltransferase domain from the nonribosomal peptide synthase, B. bassiana Bassianolide synthetase (BbBSLS), June 20, 2014.

Improved refinement of the 3.4 Å Mtr4 RNA helicase structure, June 20, 2014.

The Mtr4 Ratchet Helix and Arch Domain Act in Concert to Promote RNA Unwinding, June 3, 2014.

Cloning and Expression for the Future Characterization of the Air2 Protein, April 11, 2014.

PCR for amplification of WC2, a key regulator of circadian rhythm in Neurospora crassa, April 11, 2014.

Characterizing the Multiple Binding Interactions of Air1 and Air2 from S. cerevisiae, April 10, 2014.

Initial Biochemical and Structural Studies of Frequency-Interacting RNA Helicase, an Mtr4-like Protein from Neurospora crassa, April 10, 2014.


The Mtr4 Ratchet Helix Functions in Concert with the Arch Domain to Regulate Helicase Activity, April 10, 2014.


PCR for amplification of WC2, a key regulator of circadian rhythm in Neurospora crassa, April 3, 2014.

Kapheim, Karen Maria

The role of kinship and parental manipulation in facultative eusociality in a tropical sweat bee (Megalopta genalis), November 15, 2014.

Genomic signatures of eusocial evolution in bees, August 28, 2014.

Genomic signatures of repeated eusocial evolution in bees, June 12, 2014.

RNA-seq for transcriptomics: data generation, processing and analysis, June 12, 2014.

Kropp, Bradley R


Liddell, William David

Caves of the Tony Grove Area, Utah, September 8, 2012.

Lowry, Anthony

Fault plane segmentation revealed by slow slip events at Kilauea Volcano, Hawai‘i, December 9, 2013.

Implications of Transient Deformation in the Northern Basin and Range, Western United States, December 9, 2013.

In-Situ Lithospheric Rheology Measurement Using Isostatic Response and Geophysical State, December 9, 2013.

The temperature of the western United States lithosphere and areas of likely mantle compositional variations, December 9, 2013.

USArray receiver-function imaging of crustal lithology and temperature, December 9, 2013.

Lithosphere Temperatures Within the Western United States and Implications for Rheology, October 27, 2013.

Static and dynamic support of western United States topography, October 27, 2013.

A new method of constraining geotherms deep in the crust: The utility of the Curie-depth incorporated solution of the heat flow conduction equation, October 19, 2013.

Malmendier, Andreas

Calabi-Yau manifolds realizing symplectically rigid monodromy tuples, December 2014.

Elliptical surfaces realizing soliton solutions of the KdV equation., October 2014.

Geometric interpretation of periodic solutions to the KdV-equation, September 2014.

From elliptic surfaces to Calabi-Yau threefolds by Euler transform., June 2014.

Euler transform and variations of Hodge structure., April 2014.

Mock modular forms and gauge theory of four-manifolds., February 2014.

Period domains, hypergeometric functions, and GKZ systems., January 2014.


Mock modular forms and gauge theory of four-manifolds., January 2014.
Mock modular forms and gauge theory of four-manifolds., January 2014.

Messina, Frank J

Evolution & Tree Thinking, July 2013.

Newell, Dennis Lowell

Thermal springs of the Cordillera Blanca, Peru: evidence for mantle to crust fluid connections in a flat-slab subduction setting, February 13, 2014.

Tectonic influences on the geochemistry of CO2-rich thermal springs: insights from Tibet, the western U.S., and Cordillera Blanca, Peru, October 2, 2013.

Geochemical characterization of hot springs of the Cordillera Blanca, Peru., October 2013.

Nie, Zhaohu

On Toda field theories, June 2014.

Non-rigid parabolic geometries of Monge type, June 2014.

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