12th RISE Symposium (Research Insights in Semiarid Ecosystems) Saturday, 17 October 2015		
Marley Building, Room 230		
8:30-9:00	**Registration**	
9:00-9:15	**Mitch McClaran Susan Moran UA SNRE, USDA ARS SWRC**	**RISE Welcome**
9:15-9:25	**Abe Karam NEON**	**National Ecological Observatory Network: Operations and Opportunities**
9:25-9:35	**Chandra Holifield Collins USDA ARS SWRC**	**NASA Soil Moisture Active Passive (SMAP) Validation Experiment**
9:35-9:45	**Phil Heilman USDA ARS SWRC**	**Long Term Agricultural Research program update**
9:45-9:55	**Steve Archer UA SNRE**	**Imagining a new Long-term Ecological Research site for Arid Lands**
10:00-10:20	**Jeremy Vetter UA HIST**	**Historical Labscapes of Southern Arizona: Santa Rita Experimental Range, Biosphere 2, and the Desert Lab**
10:20-10:40	**Shirley Papuga UA SNRE**	**Ecohydrology and Watershed Management on the Santa Rita and in the Southwest**
10:40-11:00	**Mary Nichols USDA ARS SWRC**	**How Do Channels Migrate Uphill? Observations from the Walnut Gulch Experimental Watershed**
11:00-	**Poster Introductions**	**Poster abstracts presented by poster authors**
11:20-1:00	**Poster Session**	
12:00-1:00	Lunch w/ Posters	***Provided at the meeting; included in RISE registration fee***
1:00-1:20	**Greg Barron Gafford, UA GEOG**	**Sensor Technologies and Unmanned Aerial Vehicles (drones) to Measure Ecosystem Processes in Semi-arid Environments**
1:25-1:45	**Guillermo Ponce-Campos USDA-ARS SWRC**	**Linking Vegetation Productivity, Climate and Grazing Activities in Southeast Arizona**
1:50-2:10	**Dave Meko UA LTRR**	**Tree-Ring Record of Hydrologic Drought in the Southwest**
2:15-2:35	**Peter Gierlach (Petey Mesquitey) KXCI Radio**	**Field Notes from the Borderlands of Southeastern Arizona.**
2:40-3:00	**Poster Awards**	

RISE Organizing Committee:
Rachel Gallery, Phil Heilman, Mitch McClaran, Susan Moran

rgallery@email.arizoan.edu
phil.heilman@ars.usda.gov
mcclaran@u.arizona.edu
susan.moran@ars.usda.gov

Undefined Acronyms:
ARS: Agricultural Research Service
GEOG: School of Geography and Development
HIST: Department of History
LTRR: Laboratory for Tree Ring Research
NEON: National Ecological Observatory Network
SNRE: School of Natural Resources and the Environment
SWRC: Southwest Watershed Research Center
UA: University of Arizona
USDA: United States Department of Agriculture

POSTERS

(*=graduate contestant in student poster contest)

P1	**Scott Jones**	**Quantifying rates and patterns of mesquite cover in Las Cienegas National Conservation Area using repeat aerial imagery and land use records from 1936 to 2014**
P2*	**Mark Kautz**	**Development of long-term, Landsat-based canopy cover record for a semiarid grassland in southeastern Arizona**
P3	**Cesar Hinojo Hinojo**	**Ecosystem functioning changes due to desert transformation into exotic grassland**
P4*	**Cheryl McIntyre**	**Do biocrusts differentially influence non-native and native grass establishment?**
P5	**Raven Reistetter**	**Cheatgrass invasion and soil microbial communities**
P6	**Carolina Trujillo**	**Contrasting C:N stoichiometry in soil and microbial biomass in natural and disturbed arid lands ecosystems**
P7	**Jaron Weston**	**Modeling buffelgrass dispersal pattern: invasion front or satellite?**
P8	**Nate Pierce**	**Shrub dynamics in pre- and post-encroachment phases of grassland-to-shrubland transition**
P9*	**Uyen Nguyen**	**Declining vegetation indices in the Upper San Pedro: Climate change or groundwater pumping?**
P10*	**Mallory Barnes**	**Consideration of sub-annual climate conditions improves understanding of vegetation response to drought in the Southwest**
P11	**Viktor Polyakov**	**Determining erosion and sedimentation chronology on semi-arid catchments using radioisotopes**
P12*	**Li Li**	**Initial runoff abstraction in the curve number method using data from the Walnut Gulch Experimental Watershed**
P13	**Phil Guertin**	**Automated Geospatial Watershed Assessment Tool (AGWA)**
P14	**Lainie Levick**	**An ecohydrological approach to managing intermittent and ephemeral streams on Department of Defense lands in the southwestern United States**
P15*	**Martha Gebhardt**	**Engaging youth in the scientific method at the Santa Rita Experimental Range**