Biennial Conference: PROGRAM AT-A-GLANCE
Oral contributed sessions with author names

Tuesday, September 10, 2019
9:30 to 11:30 AM
Contributed: Drought and Climate Change Impacts
1. Large-scale forest restoration stabilizes carbon under climate change in Southwest U.S. MCCAULEY, L.
2. Legacy effects influencing Populus fremontii success at Rio Mesa. FOLLSTAD, J.
3. Assessing the durability, stability, and usability of genetic resistance to a non-native fungal pathogen in five-needle pines. JOHNSON, J.
4. Physiological responses of dominant grass species to precipitation variation in Southwest grassland ecosystems. RUEDA, A.
5. Rainfall manipulation quantifies ecosystem sensitivity to hydroclimatic change in Mongolian steppes and Arizona rangelands. BIEDERMAN, J.
7. Grassland vegetation collapse following long-term drought on relict mesas in Glen Canyon National Recreation Area. SPENCE, J.
8. Responses of desert plant communities to climate warming since the Last Glacial Maximum - 1: Community-climate lags. BUTTERFIELD, B.

1:00 to 3:00 PM
Contributed: Terrestrial and Riparian Plant Ecology
1. Responses of desert plant communities to climate warming since the Last Glacial Maximum - 2: Life history traits predict colonization and extinction lags. BUTTERFIELD, B.
2. Escaping the sun: characterizing fine-scale structural and temporal shade dynamics buffering moss-dominated biocrusts in the Mojave using Sun Seeker©. CLARK, T.
3. A meta-analysis of context-dependency in plant responses to biocrusts. HAVRILLA, C.
4. Intra-annual measurement of drought relief in pinus ponderosa radial growth near the northwest edge of the North American monsoon region. TRUETTNER, C.
5. Differences in seedling drought adaptation between southwestern provenances of ponderosa pine. DIXIT, A.H.
6. Genetic structure and gene flow in woody riparian plants: a case study in the Grand Canyon. PALMQUST, E.
7. Destruction of a La Sal Mountains alpine community by non-native mountain goats. COLES-RITCHIE, M.

Wednesday, September 11, 2019
8:00 to 10:00 AM
Contributed: Human Dimensions and Cultural Resource Management
1. Monetizing the health impacts and economic value of using wood biomass as a renewable energy source. HEDGEPETH, M.
2. Diné kinship as a framework for conserving native tree species in climate change. YAZZIE, J.
3. Youth engagement in color country: a solution for conserving the Southwest’s land, water, biodiversity & cultures. **EASTEP, B.**
4. Values Mapping for Planning in Regional Ecosystems (VaMPIRE): a modernized participatory GIS application for assessing social value substitutability on public lands. **SCHUSTER, R.**
5. Improving adaptive management outcomes through engaged scholarship. **ARMSTRONG, M.**
6. From water to land: analysis of prehistoric shell from Wupatki Pueblo. **COVERT, A.**
7. A new low in cultural resource management: insights from monitoring archeological resources re-exposed by low levels of Lake Powell in Glen Canyon National Recreation Area. **HARMON, B.**

10:15 AM to 12:15 PM
Contributed: Water and Land-use Planning
1. Changes in N-aquifer groundwater levels within the Black Mesa area, northeastern Arizona, 1971–present. **MASON, J.**
2. Employing NASA Earth Observations to monitor alpine lake algal productivity in Rocky Mountain National Park. **SCHMER, N.**
3. Winter rain-on-snow buffers streamflow sensitivity to snowpack losses in the Salt River Watershed in semi-arid Southwest US. **ROBLES, M.**
4. Can farmers help resolve our water crisis? **RUDDELL, B.**
5. Using NASA Earth Observations to quantify tree mortality and burn severity to inform management on ranches and open lands. **LEIKER, S.**
6. Impacts of fire to the herbaceous/shrub layer of the mixed conifer and spruce-fir forests of Grand Canyon National Park. **DECOSTER, J.**
7. Legacies of fire and woody vegetation on soil seed banks of four North American desert systems. **HOSNA, R.**

1:15 to 3:15 PM
Contributed: Animal Ecology and Nonnative Species
1. Monitoring bighorn sheep habitat by assessing vegetation, topography, and soil moisture. **AU, M.**
2. Alpine pollinators of the La Sal Mountains, Southeastern Utah: community composition and adult host plant use of Hymenoptera and Lepidoptera (with apologies to Dipterists for now). **GRAHAM, T.**
3. Effects of human activity on the behavior, physiology, and demography of the endangered Sonoran pronghorn. **DOERRIES, S.**
4. Telemetry-based aerial surveys as an efficient method for estimating abundance of sparse populations. **CLEMENT, M.**
5. How the addition of nesting platforms influence nest parasitism by (*Protocalliphora parorum*) on Cordilleran Flycatchers (*Empidonax occidentalis*): Consequences of a newly introduced parasite. **van Riper III, C.**
6. Birds species composition in riparian habitat invaded by Russian olive. **MOTYKA, P.**
7. Incorporating tribal youth and elders and other tribal guidance into management of nonnative brown trout and other aquatic species below Glen Canyon Dam. **HYDE, K.**

**Thursday, September 12, 2019**

**8:00 to 10:10:15 AM**

**Contributed: Conservation Management and Planning**

1. Thirty years of connectivity conservation plans: an assessment of factors influencing implementation of plans. **BEIER, P.**
2. Preserving the connection: habitat connectivity in Scottsdale’s McDowell Sonoran Preserve. **SPRAGUE, T.**
3. An index for measuring community resilience to energy development boom & bust cycles on Colorado Plateau. **BECK, S.**
4. Field scale soil and ecological maps for adaptive land management. **NAUMAN, T.**
5. Harnessing landscape genomics to guide seed collection and increase habitat restoration success in a changing climate. **SHRYOCK, D.**
6. A geospatial meta-analysis of global crop water productivity of leading world crops over three decades: Implications for feeding the planet and saving water in a changing climate. **FOLEY, D.**
7. A new multifunctionality index: improving information to support rangeland management for multiple purposes. **LOPEZ, Z.**
8. Which environmental variables should one use to select sites for species representation? **MILLER, S.**

**10:15 AM to 12:15 PM**

**Contributed: Restoration and Conservation**

2. Survey and monitoring of the endangered Arizona hedgehog cactus: Can we do it better? **THOMAS, K.**
3. Launching a regional effort for regional native plant conservation: IUCN Sonoran Desert Plant Species Specialist Group. **ROWE, H.**
4. Buffelgrass and fountain grass removal experiments. **SPRAGUE, T.**
5. Monroe Mountain wants to grow aspen, so how are we doing? Eight years of complementary and collaborative research. **O’BRIEN, M.**
6. Cultivating moss fabrics for biocrust restoration. **DOHERTY, K.**
7. Determining prescribed fire and fuel treatment compatibility with semi-desert grassland habitat rehabilitation for the critically endangered masked bobwhite. **SESNie, S.**
8. Restoration, mitigation & vegetative recovery...a matter of scale. **BURDEN, I.**