

SCIENCE ON THE SONOITA PLAIN
NINTH ANNUAL SYMPOSIUM
June 3, 2017

- 8:30 Welcome and introduction: Shela McFarlin (CWP), Linda Kennedy (ARR)
- 8:40 Panel presentations – Science Applications, Part I
- 8:40 Introduction to session and speakers – Shela McFarlin/Linda Kennedy
 - 8: 50 Kim McReynolds, Cooperative Extension Service
 - 9:10 Ian Tomlinson, Vera Earl Ranch/Empire
 - 9:30 Bill Brake, Rose Tree Ranch
- 9:50 COFFEE BREAK/POSTER SESSION Amanda Smith
- Poster presentations – brief introductions 7 x 3 (21 minutes)
 - Opportunities to visit and review posters
- 10:20 Panel Presentations – Science Applications, Part II
- 10:20 Daisy Kinsey, Coronado National Forest
 - 10:40 Karen Simms, Bureau of Land Management
 - 11: 00 Mark Beres, Flying Leap Vineyards
- 11:20 Panel discussion, Q and A on Science Applications
- Moderator and all panelists participate in interactive discussion with the audience
- 11:50 Update on the Endangered Desert Pupfish, Doug Duncan
- 12:00 LUNCH BREAK (bring your own)
- Also - further opportunities to visit poster presentations
- 12: 45 Miscellaneous topics, Part I Water and Landscape: Tom Meixner, Moderator
- 12:50 Using Isotopes and Solute Tracers to Infer Groundwater Recharge and Flow in the Cienega Creek Watershed, SE Arizona, Rachel Tucci and Jennifer McIntosh, University of Arizona; Andrew Salyon and Ron Tiller, Desert Botanical Gardens; Jeanmarie Haney and Gita Bodner, The Nature Conservancy
 - 1:10 Creating an Environmental Flows Water Budget for the Upper Santa Cruz River, Ashley Hullinger (University of Arizona Water Resources Research Center), Claire Zugmeyer (Sonoran Institute), Kelly Mott Lacroix (U.S. Forest Service), and Bailey Kennett (WRRC)
 - 1: 30 A dynamic flow budget for Lower Sabino and Tanque Verde Creeks, C. Shipek

- 1:50 CWP's "Indicators Project": Assessing the Health of the Cienega Watershed, A. Zuniga Teran, L. A. Fisher, T. Meixner, and S. McFarlin
- 2:10 Tools for Interpreting Landscape History in the Cienega Watershed, by Robin Pinto, Alison Bunting, David Tuggle, Bill Gillespie and Shela McFarlin

2:30 – 2:50 COFFEE BREAK

2:50 Miscellaneous topics, Part II: Gita Bodner, Moderator

- 2:55 Encroachment by woody plants alters demography and species richness of breeding grassland birds, Erik M. Andersen and Robert J. Steidl, School of Natural Resources and the Environment, University of Arizona
- 3:15 Where Mountain Lions Traverse: Insights from Landscape Genetics in the Southwestern United States and Northwestern Mexico, A. Naidu
- 3:35 Hinge-felling: A preferred restoration method for restoring incised ciénegas, A.T. Cole
- 3:55 Brush management: an ecosystem services perspective, Adam T. Naito, Steven R. Archer, Katharine I. Predick, and Greg A. Barron-Gafford, University of Arizona; Joel A. Biederman, Phil Heilman, and Russell L. Scott, Agricultural Research Service; Tyson L. Swetnam, Cy-Verse; Heather L. Throop, Nicole P. Templeton, and Enrique R. Vivoni, Arizona State University
- 4:15 Las Cienegas NCA update, Karen Simms, Bureau of Land Management

4:25 – 4:35 Presentation of Poster Awards

4:35 – 4:50 WOW! Moments Tahnee Robertson

4:50 Closing remarks, evaluation Shela McFarlin, Linda Kennedy

5:00 Adjourn

Posters

- 1) Using Water Isotopes and SO₄/Cl Ratios to Investigate the Hydrology of Wetlands in the Las Cienegas National Conservation Area, Erin Gray, Jen McIntosh, and Rachel Tucci, University of Arizona; Andrew Salywon and Ron Tiller, Desert Botanical Gardens
- 2) Ten Year Summary of Grassland Bird Point Counts at Appleton-Whittell Research Ranch, Vashti "Tice" Supplee, Audubon Arizona
- 3) Assessing the Conservation Effects on Cienega Creek Watershed, Haiyan Wei, D. Phillip Guertin, David Goodrich, Ken Spaeth, I. Shea Burns, Jane Barlow
- 4) The Effect of Gabion Construction on Infiltration in Ephemeral Streams, Chloe Fandel, University of Arizona
- 5) Using repeat aerial imagery to quantifying long term rates and patters of Prosopis Velutina across Las Cienegas National Conservation Area, Scott Jones, University of Arizona
- 6) Surveying Public Values and Preferences to Guide Environmental Management in the Sonoita Creek Watershed, Oliver Lysaght, Laura M. Norman, Richard Pritzlaff, David Seibert, and H. Ron Pulliam
- 7) Conservation Easements in the Madrean Archipelago: Random Acts of Conservation or a Landscape-scale Strategy? Damian Rawoot, University of Arizona