



Tamarisk Coalition's 16th Annual
RIPARIAN RESTORATION CONFERENCE
 February 6-8, 2018 | Grand Junction, CO



AGENDA | TUESDAY, FEBRUARY 6, 2018

7:30-8:15 AM	Registration and Light Breakfast in Atrium	
Time	Speaker	Presentation Title
Plenary Session		
Welcome South Ballroom		
8:15-8:35	Stacy Beaugh, Tamarisk Coalition	Opening Remarks
Where We've Been and Where We're Going South Ballroom		
8:35-8:50	Kai Caraher, USDA-APHIS-PPQ-PHP-Permitting and Compliance Coordination	USDA-APHIS Southwestern Willow Flycatcher Conservation Program
8:50-9:20	Peter Skidmore, The Walton Family Foundation	Planning for Healthy River Systems
9:20-9:50	Steve Carothers, SWCA Environmental Consultants	Riparian Research and Management: Past, Present, Future
9:50-10:20	Bruce Orr, Stillwater Sciences	Emerging Approaches for Managing and Restoring Resilient River-Riparian Ecosystems
10:20-10:45	BREAK Atrium	
Concurrent Session		
	Restoring for Wildlife West Ballroom	Funding Panel East Ballroom
10:45-11:05	Lotem Taylor, National Audubon Society	Water and Birds in the Arid West: Habitats in Decline
11:05-11:25	Malia Volke, New Mexico Department of Game and Fish	Restoration and Management of Non-native Riparian Wildlife Habitat in the Southwest
11:25-11:45	Sean Mahoney, Northern Arizona University	Biological Control of Tamarisk (<i>Tamarix</i> spp.) Reduces Bird Abundance, Density and Richness: Implications for Southwestern Riparian Habitat and Management
11:45-12:05	Mary Anne McLeod, SWCA Environmental Consultants	Effects of Tamarisk Defoliation on Southwestern Willow Flycatchers
12:05-1:05	LUNCH SOUTH BALLROOM	

Lessons Learned in the Pursuit of Private Funding
 This panel, moderated by Illene Roggensack with Third Sector Innovations, will feature speakers from numerous restoration partnerships, and Tamarisk Coalition staff, who all participated in the Restore Our Rivers fundraising campaign. Panelists include Miranda Kersten, Save Our Bosque Task Force; Anna Schrenk, Friends of the Verde River Greenway, Shelly Simmons, Purgatoire Watershed Weed Management Collaborative, and; Stephanie Minneart, Grand Staircase Escalante Partners. Each panelist will talk about their experiences, successes, and challenges in expanding their resource development to include more private funding.

Concurrent Session				
Emerging Tamarisk Research West Ballroom			Community and Partnerships East Ballroom	
1:05-1:25	Randy Long, University of California	Trait Variation Across <i>Tamarix</i> Populations	Miranda Kersten, Save Our Bosque Task Force	Save Our Bosque Task Force: Connecting Our River to Our Community
1:25-1:45	Kevin Hultine, Desert Botanical Garden	Local Adaptation to Frost Improves Drought Tolerance in <i>Tamarix</i>	Kara Dohrenwend, Rim to Rim Restoration	"Urban" Stream Transitions: Mill Creek in Moab Utah
1:45-2:05	Keara Bixby, Bosque Ecosystem Monitoring Program	Changes in Tamarisk Leaf Beetle Distribution and Abundance, and the Effects on Saltcedar Health in the Middle Rio Grande Bosque	Bill Brandau, University of Arizona	Gila Watershed Partnership 1992-2017: A Story of Sustainability
2:05-2:25	Pat Shafroth, U.S. Geological Survey	Riparian Vegetation Response to Biological Control Of <i>Tamarix</i> And Fluvial Processes Along The Virgin River: 2009-2017	Ryan McConnell, Colorado Canyons Association	Community Driven River Stewardship and Student Education along The Gunnison and Colorado Rivers
2:25-2:45	Pam Nagler, U.S. Geological Survey	Measuring Changes in Tamarisk Evapotranspiration in a Riparian Ecosystem near Shiprock, NM	Sarah Johnson, Wild Rose Education	Community Engagement: Guidelines for Excellence from the North American Association for Environmental Education
2:45-3:15	BREAK Atrium 1st President Award Nominations are Due			
Concurrent Session				
Emerging Riparian Vegetation Research West Ballroom			Panels East Ballroom	
3:15-3:35	Eduardo González, EcoLab, University of Denver, Colorado State University	Vegetation Response to <i>Tamarix</i> Control in the Colorado and Middle Rio Grande: A Collaborative Study Including 416 Sites	<p>3:15-4:05 Grazing Panel</p> <p>Moderated by Shelly Simmons with Tamarisk Coalition. Panelists will explore grazing policy on public lands and riparian management practices on private lands, with an emphasis on conservation and restoration practices beneficial to riparian ecosystems and landowners/land managers alike. Parameters that indicate an upward trend in riparian condition following the implementation of best management practices will be discussed as well as private land management examples from local and regional producers. Panelists will include range management specialists, researchers, and private landowners who are also livestock producers.</p> <p>4:05-4:55 Selenium Panel: Riparian and Wetland Restoration Challenges and Opportunities in Selenium Impacted Watersheds</p> <p>Moderated by Dave Kanzer with the Colorado River District. Panelists Creed Clayton, U.S. Fish and Wildlife Service; Lesley McWhirter, U.S. Bureau of Reclamation; Jason Roudebush, Ducks Unlimited; and James Roberts, U.S. Geological Survey, will discuss the impacts/ramifications of selenium on riparian and wetland restoration in Mesa County and along the Gunnison River.</p>	
3:35-3:55	Dan Bean, Colorado Department of Agriculture	How Two Generations Per Season Became Six: Evolving Photoperiod Cues And Shifting Temperature Regimes Alter The Life History And Phenology Of <i>Diorhabda carinulata</i> , A Biocontrol Agent For <i>Tamarix</i> spp.		
3:55-4:15	James Hatten, U.S. Geological Survey	Designing Decision Support Tools for Southwestern Willow Flycatcher Conservation with Consideration of the Distribution and Expansion of the Tamarisk Beetle		
4:15-4:35	Juan Solis, Civil Engineering Department	Water Stress in Desert Willows (<i>Chilopsis linearis</i>) Planted in Clinoptilolite Zeolite for Riparian Rehabilitation		
4:35-4:55	Patty York, Colorado Department of Agriculture	Colorado's EDRR Strategy: Using Genetic Testing to Inform Management of Native vs. Non-native <i>Phragmites</i> in Colorado		
4:55-5:05	CLOSING REMARKS			
5:05-7:00	<p>POSTER/EXHIBITOR SESSION, HAPPY HOUR, SILENT ART AUCTION LOUNGE</p> <p>Join us for appetizers and drinks at the Poster Session, Happy Hour, and silent art auction! Talk with poster presenters and vendors, catch up with familiar faces, and network with new ones. Each attendee receives a complimentary drink. Cash bar also available.</p>			

AGENDA | WEDNESDAY, FEBRUARY 7, 2018

7:30-8:30 AM	Registration & Light Breakfast - Atrium			
Time	Speaker	Presentation Title		
Plenary Session				
8:30-8:35	Welcome and Opening Remarks - South Ballroom			
Regional Riparian Assesments South Ballroom				
8:35-9:05	Megan Friggens, Forest Service/RMRS	A Spatially Explicit and Quantitative Vulnerability Assessment for Riparian Habitats in the Four Corners Region		
9:05-9:35	Brad Udall, Colorado State University	The Colorado River Hot Drought: How Higher Temperatures are Reducing Streamflows in the American West		
9:35-10:05	Bill Whitacre, Western Governors' Association	Western Governors Association Invasive Species Data Management Initiative		
10:05-10:35	BREAK Atrium			
Concurrent Session				
Mapping and Technology West Ballroom			Large-Scale Planning Considerations East Ballroom	
10:35-10:55	Sinan Abood, USDA Forest Service	Application of Open Source Data in USFS Riparian Areas Inventory Mapping	Steve Ryder, Colorado Department of Agriculture	Transforming the Weed "Whack-A-Mole" Management Approach
10:55-11:15	Anna Schrenk, Friends of Verde River Greenway	A Dynamic Model for Managing Field Data	Nicole Seltzer, River Network	Using Stream Management Plans To Set and Realize River Health Goals in Colorado
11:15-11:35	Richard Alward, Aridlands, LLC	150 Hectares per Hour: Comprehensive Restoration Monitoring Using Drones & Multi-Spectral Sensors	Bo Shelby, Oregon State University	Recreation Habitat vs. Ecological Habitat in Riparian Restoration: Are They Different, And Can We Manage For Both?
11:35-11:55	Matt Lewis, Bureau of Land Management	The Use of UAS (drones) to Measure Weed Treatment Effectiveness along the White River in Utah	Lisa Clark, University of Denver	Differences Among Managers Correlate with Plant Community Traits in Tamarisk Removal Projects
11:55-1:05	LUNCH South Ballroom 1st President's Award Presentation			

Concurrent Session				
Remote Sensing West Ballroom			Russian Olive East Ballroom	
1:05-1:25	Jilian LaRoe, NASA DEVELOP	Utilizing NASA Earth Observations to Delineate Riparian Corridors and Evaluate Invasive Species Cover In The Verde River Watershed	Dennis Worwood, Utah State University Extension	Vegetative Reproduction in Russian Olive – Implications For Control
1:25-1:45	Dan Carver, NASA DEVELOP	Utilizing NASA Earth Observations to Evaluate Invasive Species Cover In Riparian Areas of The Colorado River Basin	Ron Patterson, Utah State University Extension	Herbicide Control Options for Russian Olive
1:45-2:05	Kristin Davis, NASA DEVELOP	Evaluating Invasive Species Cover Influence on Water Evapotranspiration Rates in The Colorado River Basin Using NASA Earth Observations	Alex Engel, Grand Staircase-Escalante Partners	Treatment of Russian Olive using the Frill Cut Method in the Escalante Watershed
2:05-2:25	Brian Woodward, Colorado State University	Mapping Riparian Corridor and Vegetation Change in the Colorado River Basin	Kaleb Heinrich, University of Mary Hardin-Baylor	Interactive Effects of Russian Olive and the Common Carp on Linked Stream-Riparian Food Webs
2:25-2:45	Nicholas Young, Colorado State University	Mapping Tamarisk Change across the Colorado River Basin: Trials, Tribulations and Lessons Learned	Natalie West and Erin Espeland, U.S. Department of Agriculture	Re-Organize and Re-Assemble: Community Change and Restoration after Russian Olive Removal
2:45-3:15	BREAK Atrium Close of Silent Art Auction			
Plenary Session				
Partnerships				
3:15-3:35	Ashlee Simpson, University of Arizona	An Online Management Strategy and Case Study Platform to Facilitate Conservation and Restoration in the Southwest		
3:35-3:55	Bruce Rittenhouse, Bureau of Land Management	Dolores River Restoration Partnership: A Private and Public Collaboration		
3:55-4:55	<p align="center">3:55-4:55 Panel: The Escalante River Watershed Partnership; A Study in Cooperation</p> <p>Moderator: Lindsay Murdoch, Cross-Watershed Network. Panelists: Dave Bastian, Utah Conservation Corps/Utah State University; Sue Fearon, Grand Staircase Escalante Partners; and Stephanie Minnaert, Grand Staircase Escalante Partners</p>			
4:55-5:00	CLOSING REMARKS			
5:30-7:30	<p align="center">SOCIAL HOUR AT BARONS BAR & GRILL 539 Colorado Ave.</p> <p>Located in Downtown Grand Junction, stretch your legs and take the short walk to Baron's. You are on your own for meals and drinks. Baron's offers gourmet sandwiches, local beers, plus, billiards and a shuffle board.</p>			

FIELD TRIP AGENDA | THURSDAY, FEBRUARY 8, 2018

Time	Logistics	Speaker	Description
Option 1: EDDMapS Workshop East Ballroom			
8:00 am - 12:30 pm	Workshop will be located in the East Ballroom of the University Center at CMU. Coffee and light snacks will be provided.	Rebekah D. Wallace EDDMapS Data Coordinator	This interactive workshop will be a hands-on demonstration of EDDMapS, a useful system for reporting and mapping invasive species, biocontrol agents, and more. Participants will walk through bulk data submission, record verification process, data querying, and more. This will also include an EDDMapS Pro demonstration, a system for land managers and professionals to download maps and data, view records off line and in the field, create revisits and new records, and sync data back at the office. Weather permitting, it may also include adventuring outside to explore reporting through the EDDMapS West smartphone app.
Option 2: Funding Workshop - Mastering Common Challenges of Private Fundraising West Ballroom			
8:30 am - 11:00 am	Workshop will be located in the West Ballroom of the University Center at CMU. Coffee and light snacks will be provided.	Kristen Jespersen, Tamarisk Coalition, Illene Roggensack, Third Sector Innovations, Lindsay Murdoch, Cross- Watershed Network	This fundraising training, led by Third Sector Innovations, Tamarisk Coalition, and Cross-Watershed Network, will hone in on the top five challenges that watershed groups face in fundraising (e.g. board development, capacity building, prospecting, donor communications/foundation relations, and making the ask) and provide some concrete best management practices and lessons learned. This will be an interactive session.
Option 3: Palisade Insectary 750 37 8/10 Rd, Palisade, CO			
9:00 am-11:00 am	This will be an indoor and outdoor trip. Meet at 750 37 8/10 Rd, Palisade, CO 81526 at 9:00 am.	Dan Bean, Insectary Manager for the Colorado Department of Agriculture	You've heard about the tamarisk beetle and other insects wandering around in the riparian corridors of the West, but have you seen them up close? Have you admired the backside of a <i>Coniatus splendidulus</i> lately? This will be a short indoor walking tour of the Colorado Department of Agriculture, Palisade Insectary. The Insectary has long been a promoter of the use of biological control in weed and insect pest management and is home to about 20 different species of biological control agents. Join us for a closer look at these insects and the unique rearing processes, as well general information on past and future efforts by the CDA's Biological Pest Control Program. * Please Note: Those interested in this trip are responsible for their own transportation; we are happy to help you arrange a carpool with other attendees if requested. Participants are advised to leave Grand Junction at 8:30 am to allow for driving time. The Palisade Insectary tour will begin at 9am.

POSTER PRESENTERS

FEBRUARY 6-7 in the Lounge

Join us for the Poster Session at 5:00 pm on February 6th to visit with poster presenters and vendors, catch up with familiar faces, and network with new ones. Enjoy a complimentary glass of beer or wine and appetizers.

Alejandro Salas, New Mexico State University	Sequestration of Arsenic by Cattail in Drainage Canal
Amanda Kuenzi, Mountain Studies Institute	Invasive Phreatophyte Removal in the Animas River Watershed: Community-based Stewardship
Amanda Stahlke, University of Idaho	Genomic Tools Reveal Hybridization, Admixture, and Differential Establishment Among Introduced Tamarisk Beetle (<i>Diorhabda</i> spp.) Source Populations
Anna Schrenk & Emily Garding, Friends of Verde River Greenway	VWRC: A Collaborative Approach to Improving Riparian Areas in the Verde Watershed
Ben Bloodworth, Tamarisk Coalition	Tamarisk Coalition Annual Tamarisk Beetle (<i>Diorhabda</i> spp.) Distribution Map
Cindy Adams, SGM and Jennifer Ward, WCAO Bureau of Reclamation	Habitat Mitigation at Orchard Mesa Wildlife Area
Earl Conway, New Mexico BASS Nation	Increasing Game Fish Carrying Capacity at the Elephant Butte Reservoir
Garrett Gibson, New Mexico State University	Estimating Consumptive Water Use of Saltcedar Using a Polynomial Function and Heat Units
Ian Moffit, University of Denver	<i>Salix</i> Recovery After the Control of <i>Tamarix</i> Across the Southwest United States
Jamela Thompson, Litzsinger Road Ecology Center	Riparian Restoration in an Urban Ecology Center
Jennifer Holmes and Matthew Johnson, Colorado Plateau Research Station; James Hatten, U.S. Geological Survey	Using the Yellow-billed Cuckoo as an Umbrella Species to Inform Riparian Restoration in the Southwest
Juan Olivares, New Mexico State University	Green Earthen Embankments for Controlling Soil Erosion
Kara Dohrenwend, Rim to Rim Restoration and Southeast Utah Riparian Partnership	Site Conditions over the Long Term: Collaborating to Evaluate Vegetation Changes, Beetle Activity and Current Conditions in SE Utah
Kristina Kline, Bird Conservancy of the Rockies	Successful Riparian Restoration in Southwest Colorado through Connecting Conservation Collaboratives
Luke Javernick, WorldWater.Today	Leveraging Low-Cost Technologies in UAS, GIS, and IoT to Achieve Greater Conservation Impacts
Luke Javernick, WorldWater.Today	River Hydraulics, Morphology, and Vegetation: New Research into Maximizing a River's Potential to Remove Invasive Vegetation and Recent Achievements in Modeling Vegetation Removal
Nina Loudon, Colorado Department of Agriculture	Mapping, Monitoring, and Future Management for Biological Control of Tamarisk in the Arkansas River Basin (2008-2017)
Noël Fie, California Polytechnic State University	Hydrologic and Vegetative Response to Meadow Restoration and Upslope Harvest in a Montane Meadow

Ondrea Hummel and Chris Sanderson, Tetra Tech; Eduardo González, Colorado State University; Patrick Shafroth, U.S. Geological Survey; Miranda Kersten and Gina Dello Russo, Save Our Bosque Task Force	Comparing Habitat and Avian Species Response to Biocontrol and Mechanical/Chemical Control of Invasive Woody Vegetation in Socorro County, NM
Pablo Soto, New Mexico State University	Establishing Vegetation for Riparian Rehabilitation Using Solar Powered Irrigation Pump
Scott Shahverdian, Utah State University	Using Beaver Dam Analogs and Post-Assisted Log Structures to Restore Instream Channel Complexity on the Lower San Rafael River, Utah
Sinan Abood, U.S. Department of Agriculture Forest Service	Application of Open Source Data in USFS Riparian Areas Inventory Mapping