**18th Annual RiversEdge West**  
**RIPARIAN RESTORATION CONFERENCE**  
**TUESDAY, FEBRUARY 4, 2020**

**7:15-8:00 am**  
**REGISTRATION AND LIGHT BREAKFAST**

**8:00-8:40 am**  
**Welcome**  
RiversEdge West Staff

**TAKING STOCK: HOW ARE WE DOING & WHERE ARE WE GOING?**  
*Moderated by Rusty Lloyd, RiversEdge West*

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:40-9:00 am</td>
<td><strong>What Have We Accomplished? What Have We Learned? A Review of Walton Family Foundation Riparian Restoration Program</strong></td>
<td>Peter Skidmore</td>
<td>Walton Family Foundation</td>
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<tr>
<td>9:00-9:20 am</td>
<td><strong>Collaborative Science on the Upper San Pedro River: Building the Blocks</strong></td>
<td>Brooke Bushman</td>
<td>The Nature Conservancy</td>
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<tr>
<td>9:20-9:40 am</td>
<td><strong>Confluence for Success: Uniting Policy, Partnerships, and Restoration for Lasting Wins</strong></td>
<td>Abby Burk</td>
<td>Audubon Rockies</td>
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<tr>
<td>9:40-10:00 am</td>
<td><strong>Think Like a Watershed, Act Like a River: The Culture of Community Based River Restoration in the AZ-Mexico Binational Watersheds</strong></td>
<td>Joaquin Murrieta</td>
<td>Watershed Management Group</td>
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10:00-10:30 am **BREAK**

**10:30-11:00 am**  
**CLIMATE CHANGE & ADAPTATION**  
*Moderated by Rusty Lloyd, RiversEdge West*

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<tr>
<td>10:30-11:00 am</td>
<td><strong>Our Climate - Where Is It Taking Us?</strong></td>
<td>Nolan Doesken</td>
<td>Colorado State Climatologist (retired)</td>
</tr>
<tr>
<td>11:00-11:25 am</td>
<td><strong>A Genetics-based Approach to Restoration in a Changing Climate</strong></td>
<td>Sean Mahoney</td>
<td>Northern Arizona University</td>
</tr>
<tr>
<td>11:25-11:50 am</td>
<td><strong>Incorporating Climate Change Information into Stream Restoration Planning</strong></td>
<td>Sarah LeRoy</td>
<td>University of Arizona</td>
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**10:30-10:50 am**  
**REMOTE SENSING & MONITORING**  
*Moderated by Rica Fulton, RiversEdge West*

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<td>10:30-10:50 am</td>
<td><strong>Supervised Classification of Russian Olive in the Animas Valley with NAIP Imagery and Object-based Image Analysis</strong></td>
<td>Anna Riling</td>
<td>University of Denver</td>
</tr>
<tr>
<td>10:50-11:10 am</td>
<td><strong>Using Time-series Satellite Vegetation Indices to Assess Fractional Plant Cover, Greenness, and Evapotranspiration in Natural and Restored Western U.S. Riparian Sites</strong></td>
<td>Armando Barreto-Muñoz</td>
<td>University of Arizona</td>
</tr>
<tr>
<td>11:10-11:30 am</td>
<td><strong>Dolores River Restoration Partnership Rapid Monitoring - Tracking Restoration Progress on a Site-by-site Basis</strong></td>
<td>Emily Kasyon</td>
<td>Dolores River Restoration Partnership/Conservation Legacy</td>
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**NORTH BALLROOM**  
**CONCURRENT SESSIONS**
CONCURRENT SESSIONS
SOUTH BALLROOM

CLIMATE CHANGE & ADAPTATION
Moderated by Rusty Lloyd, RiversEdge West

11:50-12:10 pm  Q&A Panel

12:10-1:10 pm  LUNCH (SOUTH BALLROOM)
FILL OUT 1ST PRESIDENT’S AWARD NOMINATIONS

SOUTH BALLROOM

COLLABORATION & PLANNING
Moderated by Shannon Wadas, RiversEdge West

1:10-1:30 pm  Common Things People do to Clobber Their Collaborative (And How to Avoid Them)
Stacy Beaugh, Strategic by Nature

1:30-1:50 pm  Colorado’s Water Plan: A Commitment to Collaboration
Russ Sands, Colorado Water Conservation Board

1:50-2:10 pm  Managing Forward: A Tool for Adaptively Managing Watersheds in Colorado
Deb Hummel, Left Hand Watershed Center

2:10-2:30 pm  Utah’s Watershed Restoration Initiative
Nicole Nielson, Utah Division of Wildlife Resources

2:30-2:50 pm  Cause Marketing for Healthy Rivers
Tim Carlson, Forever our Rivers Foundation

2:50-3:20 pm  BREAK
1ST PRESIDENT’S AWARD NOMINATIONS ARE DUE

NORTH BALLROOM

REMOTE SENSING & MONITORING
Moderated by Rica Fulton, RiversEdge West

11:30-11:50 am  Ultra-high Resolution Remote Sensing for Species Identification and Restoration Monitoring
Alicia Langton, EcoloGIS

11:50-12:10 pm  Low-cost Aerial Mapping: Opportunities and Pitfalls
Luke Javernick, River Science

CONCURRENT SESSIONS

12:10-1:10 pm  LUNCH (SOUTH BALLROOM)
FILL OUT 1ST PRESIDENT’S AWARD NOMINATIONS

GEOMORPHOLOGY & INVASIVE VEGETATION INTERACTIONS
Moderated by Mike Scott, Utah State University

1:10-1:30 pm  Channel Morphologic Changes Associated with Invasive Vegetation Removal
Celeste Wieting, Colorado State University

1:30-1:50 pm  A Century of Tamarisk and Russian Olive Invasion, Removal Efforts, and River Response in Canyon de Chelly National Monument, Arizona
Lindsay Reynolds, Colorado State University

1:50-2:15 pm  Geomorphic Consequences of Russian Olive Invasion and Prospects for Restoration Along the Escalante River, Utah
Mike Scott, Utah State University

2:15-2:35 pm  Designing for Ecological Disturbance in River Restoration to Promote Native Species Regeneration: A Look at the River Bluffs Project on the Poudre River
Johannes Beeby, Stillwater Sciences

2:35-2:55 pm  The Importance of Plant Traits on River Processes and How to Incorporate Them into Revegetation Strategies
Sharon Bywater-Reyes, University of Northern Colorado
### SOUTH BALLROOM

#### RESTORATION APPROACHES FOR RIPARIAN AREAS ON MULTIPLE-USE PUBLIC LANDS
**Moderated by Grand Canyon Trust**

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<tr>
<td>3:20-3:25 pm</td>
<td><strong>Overview:</strong> Attendees and presenters will share and discuss case studies for spring and related riparian restoration efforts on multiple-use public lands, where land managers are tasked with striking a balance between land uses and landscape health in an increasingly arid climate.</td>
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<tr>
<td>3:25-3:45 pm</td>
<td><strong>Challenges Restoring Springs on Public Lands in Nevada</strong></td>
<td>Boris Poff, Bureau of Land Management</td>
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<tr>
<td>3:45-4:05 pm</td>
<td><strong>If at First You Don’t Succeed, Try Again: A Success Story</strong></td>
<td>Robin Wignall, U.S. Forest Service</td>
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<td>4:05-4:25 pm</td>
<td><strong>A Fire Ran Through It</strong></td>
<td>Robin Wignall, U.S. Forest Service</td>
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<td>4:25-4:45 pm</td>
<td><strong>Restoring Riparian Areas through Collaboration on Public Lands</strong></td>
<td>Cerissa Hoglander, Grand Canyon Trust</td>
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<tr>
<td>4:45-5:00 pm</td>
<td><strong>Open Discussion</strong></td>
<td>Moderated by Cerissa Hoglander, Grand Canyon Trust</td>
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### NORTH BALLROOM

#### CONCURRENT SESSIONS

#### GEOMORPHOLOGY & INVASIVE VEGETATION INTERACTIONS
**Moderated by Mike Scott, Utah State University**

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<td>3:20-3:45 pm</td>
<td><strong>Applying Geomorphic Analysis and Plant Traits to Assess Success of the Little Thompson River Restoration Site</strong></td>
<td>Haylie Brown and Courtney Lanier, University of Northern Colorado</td>
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<tr>
<td>3:45-4:05 pm</td>
<td><strong>Biogeomorphic Feedbacks in the Southwestern USA: Exploring the Mechanisms of Geomorphic Change and the Effectiveness of Mitigation Measures</strong></td>
<td>David Dean, U.S. Geological Survey</td>
</tr>
<tr>
<td>4:05-4:25 pm</td>
<td><strong>Assessment of Geomorphic Impacts of Vegetation Removal on the Colorado River in the Grand Valley, Colorado</strong></td>
<td>Gigi Richard, Fort Lewis College</td>
</tr>
<tr>
<td>4:25-4:45 pm</td>
<td><strong>A 184-Year Record of River Meander Migration from Tree Rings, Aerial Imagery, and Cross-sections on the Powder River, Montana</strong></td>
<td>Derek Schook, National Park Service</td>
</tr>
<tr>
<td>4:45-5:00 pm</td>
<td><strong>Q&amp;A Panel</strong></td>
<td>Moderated by Mike Scott, Utah State University</td>
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### EDDY OUT: POSTER SESSION, HAPPY HOUR, & SILENT AUCTION

SEE PAGES 7 & 8 FOR POSTER PRESENTATIONS

Join us for appetizers and drinks at the poster session, happy hour, and silent auction! Discuss with poster presenters and exhibitors, catch up with familiar faces, and network with others in your field.

Each attendee receives one complimentary beer or non-alcoholic beverage. Cash bar available.

**SILENT AUCTION BIDDING ENDS AT 6:45 PM.**
18th Annual RiversEdge West
RIPARIAN RESTORATION CONFERENCE
WEDNESDAY, FEBRUARY 5, 2020

7:15-8:00 am  REGISTRATION AND LIGHT BREAKFAST  SOUTH BALLROOM

8:00-8:10 am  Welcome  RiversEdge West Staff

8:10-9:50 am  WIN–WIN–WINS: HOW SECURING WATER FOR THE ENVIRONMENT CAN HAVE MULTIPLE BENEFITS  SOUTH BALLROOM

This interactive panel will explore strategies, approaches, and mechanisms that gain mutual benefit for diverse interests such as environmental flows, recreation, water for agriculture, municipalities, and wildlife habitat.

Panelists include:

- Ken Neubecker, American Rivers
- Season Martin, Martin & McCoy LLC
- Ondrea Hummel, Tetra Tech
- Jim Pokrandt, Colorado River District

View speaker bios here.

9:50-10:20 am  BREAK  SOUTH BALLROOM

9:50-10:00 am  GROW WITH THE FLOW  SOUTH BALLROOM

VEGETATION RESPONSES TO STREAM FLOWS  SOUTH BALLROOM

10:20-10:40 am  Effects of an Environmental Flow Release and Active Revegetation on Riparian Seedling Establishment Along the Bill Williams River  SOUTH BALLROOM

Patrick Shafroth, US Geological Survey

10:40-11:00 am  The Root Race: Does Stream Type Affect Belowground Architecture of a Riparian Tree Species?  SOUTH BALLROOM

Jackie Parker, Northern Arizona University

10:20-10:40 am  Changes in Large- and Medium-sized Mammals Associated with Riparian Revegetation Activities Along the Las Vegas Wash, Nevada  NORTH BALLROOM

Jason Eckberg, Southern Nevada Water Authority

10:40-11:00 am  Incorporating Key Restoration Decisions into Habitat Suitability Models to Forecast Outcomes for Southwestern Willow Flycatchers  NORTH BALLROOM

Lisa Markovich, Northern Arizona University

10:40-10:40 am  CONSIDERING WILDLIFE STUDIES IN RESTORATION  NORTH BALLROOM

Moderated by Sarah Wilson, RiversEdge West

8:00-8:10 am  Welcome  RiversEdge West Staff

8:10-8:30 am  Protecting and Restoring Dynamic Riverine Ecosystems: A Case Study from Southern California  NORTH BALLROOM

Bruce Orr, Stillwater Sciences

8:30-8:50 am  Cosumnes River Mitigation Bank: A Case Study in the Approach and Challenge of Developing and Crediting a Mitigation Bank in a Dynamic Riverine System  NORTH BALLROOM

Matt Gause, Westervelt

8:50-9:00 am  Restoration in Dynamic Rivers: The Importance of Process-based and Multi-benefit Approaches Throughout Design and Construction  NORTH BALLROOM

Julie Ash, Stillwater Sciences and Corey Engen, FlyWater, Inc.

9:00-9:30 am  Case Study: Monitoring and Adaptive Management Saves Money and Extends Functional Life of Middle Rio Grande Habitat Restoration Projects  NORTH BALLROOM

Todd Caplan, GeoSystems Analysis

9:30-9:50 am  CONCURRENT SESSIONS  NORTH BALLROOM

CHALLENGES OF IMPLEMENTING SUSTAINABLE RESTORATION & MITIGATION IN HIGHLY DYNAMIC RIVERINE ECOSYSTEMS

Moderated by Bruce Orr and Julie Ash, Stillwater Sciences
<table>
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| 11:00-11:20 am | Riparian Dependence Increases with Atmospheric Demand Among Species of Willows (*Salix*) in Western North America  
Brad Butterfield, Northern Arizona University |
| 11:20-11:40 am | Localized Performance of Fremont Cottonwood (*Populus fremontii*) Collected Across a Water Regime Gradient  
Abraham Cadmus, Northern Arizona University |
| 11:40-12:00 pm | Frost, Heatwaves, and Declining Water Tables: Is There a Super Cottonwood Genotype That Can Cope with All Three?  
Kevin Hultine, Desert Botanical Garden |
| 12:00-1:00 pm | LUNCH (SOUTH BALLROOM)  
1ST PRESIDENT AWARD PRESENTATION |
| 1:00-1:20 pm  | Riparian Invasive Plants and Site Restoration: A Career’s Worth of Perspective  
Curt Deuser, National Park Service |
| 1:20-1:40 pm  | Leavenworth Creek Watershed Restoration Project  
Lauren Duncan, Trout Unlimited |
| 1:40-2:00 pm  | Evaluating Sod Mats as an Alternative to Plugs in Wetland Revegetation  
Susan Sherrod, Biohabitats |
| 2:00-2:20 pm  | Planning for Linear Transportation with a Focus on Riparian Restoration: Challenges and Opportunities  
Haley Stratton and Tamara Keefe, Felsburg Holt & Ullevig |
| 2:20-2:40 pm  | Rehabilitating Habitat on the Upper Gila River  
Bethany Drahota, Gila Watershed Partnership of Arizona |
| 11:00-11:20 am | Predictors of Plant Functional Traits in a Novel Ecosystem  
Alex Goetz, University of Denver |
| 11:20-11:40 am | Avian Study Shows Success of Urban River Ecosystem Restoration  
Lee Marlowe, San Antonio River Authority |
| 11:40-12:00 pm | Tamarisk Leaf Beetle Species and Habitat Analysis with Management Implications for the Middle Rio Grande, NM  
Ondrea Hummel, Tetra Tech and Matt Johnson, Northern Arizona University |
| 12:00-1:00 pm | LUNCH (SOUTH BALLROOM)  
1ST PRESIDENT AWARD PRESENTATION |
| 1:00-1:20 pm  | Weed Management Social Dilemmas  
Alex Metcalf, University of Montana |
| 1:20-1:40 pm  | The Biology of Biocontrol: Enhancing the Biological Control of Tamarisk to Better Serve Riparian Restoration and Recovery  
Dan Bean, Colorado Department of Agriculture |
| 1:40-2:00 pm  | Adaptation of Diapause Induction Cue Enables Range Expansion of the Tamarisk Leaf Beetle Across Latitude  
Eliza Clark, Colorado State University |
| 2:00-2:20 pm  | Monitoring of *Diorhabda* spp. Along the Rio Grande  
Zeynep Ozsoy, Colorado Mesa University |
| 2:20-2:40 pm  | Interactions Between Tamarisk, Russian Olive, Birds, and Biological Control  
Sean Mahoney, Northern Arizona University |
2:40-3:10 pm  BREAK

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**SOUTH BALLROOM**

**CONCURRENT SESSIONS**

**RESTORATION WITH PRIVATE LANDS**
Moderated by Stacy Beaug, Strategic by Nature

3:10-3:30 pm  Private Lands Stewardship: Connecting People, Birds and Land
Kelsea Holloway, Bird Conservancy of the Rockies

3:30-3:50 pm  What Constitutes Healthy Soil in Riparian Ecosystems? Contrasting and Relating Soil Properties Between Riparian and Upland Zones
Charles Peacock, USDA NRCS

3:50-4:10 pm  Invasive Phreatophyte Removal in the Animas River Watershed: Community-based Stewardship
Amanda Kuenzi, Mountain Studies Institute

4:10-4:30 pm  Public and Private Lands Collaboration on the Dolores River
Sparky (Mark) Taber, Bureau of Land Management (retired)

4:30-4:50 pm  Misplaced Priorities: The Importance of Aligning Landowner Goals and Input in Restoration on Private Lands
Shelly Simmons, RiversEdge West/Spanish Peaks - Purgatoire River Conservation District

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**NORTH BALLROOM**

**FRONTIERS IN UNDERSTANDING AND MANAGING RIPARIAN INVASIONS**
Moderated by Amanda Stahlke, University of Idaho

3:10-3:30 pm  Tackling Russian Knapweed Biocontrol with New Tools in Riparian Areas
Joseph Milan, Bureau of Land Management

3:30-3:50 pm  Choked Out: Battling Invasive Giant Cane (Arundo donax) Along the Rio Grande/Bravo Borderlands
Mark Briggs, RiversEdge West

3:50-4:10 pm  Salinity-Herbivore-Plant Interactions: Effects of Plant Health, Beetle Defoliation, and Local Adaptation on Tamarix Growth
Randall Long, University of California

4:10-4:30 pm  Environmental Determinants of Clonal Spread in Whitetop (Lepidium draba) in Northeast Colorado
Amanda Stahlke, University of Idaho

4:30-4:50 pm  Why Do Some Restoration Projects Fail and Others Succeed? A Quantitative Look at 243 Sites for Environmental, Management, and Social Factors
Anna Sher, University of Denver

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4:50-5:00 pm  CLOSING REMARKS
PLEASE TURN IN YOUR EVALUATION AND NAME TAG TO THE REGISTRATION DESK.

5:00 pm  HAPPY HOUR to raise money for RiversEdge West!
JOIN US AT THE FEISTY PINT — 359 COLORADO AVE, GRAND JUNCTION, CO 81501 — AND 10% OF YOUR BILL WILL BE DONATED TO RIVERSEDGE WEST.
Posters will be displayed throughout the first two days of the conference. Meet with poster presenters and exhibitors during the poster session, happy hour, and silent auction on February 4th from 5 pm—7 pm.

2019 Annual Tamarisk Beetle Distribution Map
Ben Bloodworth, RiversEdge West

Water Quality and Riparian Ecosystem Monitoring in the Impaired Waters of the Verde River Utilizing Drone Technology
Jessica Stansfield and Adrienne Crawford, Grand Canyon University

20 Years of the National Park Service’s Invasive Plant Management Team Program
Curt Deuser, National Park Service

Beware of the Ravenous Ravenna Grass: Early Detection and Treatment of the Invasive Exotic Ravenna Grass (Saccharum ravennae) in the Colorado River Watershed
Curt Deuser, National Park Service

Plant Community Response to a Second Cycle of Tamarix Biocontrol Defoliation in the Upper Colorado River Near Moab, UT
Eduardo González, Colorado State University

The Development and Application of Hydroseres for Riparian and Wetland Restoration on the Colorado River in Grand Junction: A Means of Increasing Resolution in the Design Phase and Enhancing Success in the Construction Phase
John Giordanengo, AloTerra Restoration Services, LLC

Riparian System Responses to Fire and Flood Disturbance in Capulin Canyon, Bandelier National Monument, NM
Jamie Gottlieb, Northern Arizona University

Plant Recruitment Under Beetle-defoliated Tamarisk in Grand County, Utah: 2009 to 2019
Tim Graham

Invasive Bivalve Establishment as a Secondary Effect of Eradication-focused Nuisance Aquatic Plant Management
David Holbrook, Consultant for the Department of Energy Office of Legacy Management

Private Lands Stewardship: Connecting People, Birds and Land
Kelsea Holloway, Bird Conservancy of the Rockies

Tamarisk Leaf Beetle Species and Habitat Analysis with Management Implications for The Middle Rio Grande, NM
Ondrea Hummel, Tetra Tech and Matthew Johnson, Northern Arizona University

Tamarisk Beetle Colonization of The Rio Grande in New Mexico: A Long-term, Multi-faceted Study Using Genetic Analysis and Field Surveys
Levi Jamison
FEBRUARY 4—5, 2020

Posters will be displayed throughout the first two days of the conference. Meet with poster presenters and exhibitors during the poster session, happy hour, and silent auction on February 4th from 5 pm—7 pm.

A Dam Runs Through It: Balancing Science and Stakeholder Needs for the South Fork Republican River Stream Management Plan and Restoration Feasibility Assessment
AJ Keith, Stillwater Sciences

Vulnerability of Cottonwoods in Desert Canyons: A Look at the Colorado National Monument
Deb Kennard, Colorado Mesa University

Riparian Restoration Through Wetland Creation
Kristina Kline, Bird Conservancy of the Rockies

Riparian Vegetation Response to High-magnitude Dam Releases on the Dolores River, SW Colorado
Cynthia Dott, Fort Lewis College and Julie Knudson, Purgatoire Watershed Partnership

Northern Tamarisk Beetle Impact to Tamarisk and Phenology in Western Colorado on a Ten-year Scale
Nina Louden and Dan Bean, Colorado Department of Agriculture

What Constitutes Healthy Soil in Riparian Ecosystems? Contrasting and Relating Soil Properties Between Riparian and Upland Zones
Charles Peacock, U.S. Department of Agriculture-Natural Resource Conservation Service

Local Southwest Utah Partnership Engages Youth to Mitigate Flood Damage, Control Invasive Species, and Restore Native Habitat
Wesley Pickett, American Conservation Experience

Common Reed (Phragmites australis): Nativity and Determining Lineages Using Genetics and Field Characters in Southeastern Utah (and Parts of Southwestern Colorado)
Kelli Quinn, Southeast Utah Group National Park Service

Riparian Assessments and Best Management Practices with Agriculturalists Along the Lower Animas River
Alyssa Richmond, San Juan Watershed Group

Supervised Classification of Russian Olive in the Animas Valley with NAIP Imagery and Object-based Image Analysis
Anna Riling, University of Denver

Using Restriction Enzyme Digests as a New Method for Species Identification in Diorhabda Species
Chris Schaaf, Colorado Mesa University

Endangered Species Recovery in an Urbanizing River Corridor
Joel Sholtes, Colorado Mesa University

Assigning Coefficients of Conservatism to the Flora of the Middle Rio Grande
Jessica Stern, University of Illinois at Urbana-Champaign
### OPTION 1

**TOUR | PALISADE INSECTARY AND RIVERBEND PARK**

**9:00 AM — 12:00 PM**

**FREE, TRANSPORTATION AND LUNCH NOT INCLUDED**

**MEET AT THE PALISADE INSECTARY AT 9 AM**

Carpool to the Colorado Department of Agriculture's Palisade Insectary for a short walking tour and site visit to Riverbend Park. The Palisade 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 as general information on past and future efforts by the CDA's Biological Pest Control Program.

The insectary tour will be followed by a site visit to the nearby Riverbend Park to discuss ongoing restoration that has taken place through coordinated community efforts. In June 2011, flooding of the Colorado River caused significant bank erosion at the Park. After the flooding, Palisade's Town Board of Trustees set it as a priority to restore the vegetation that had been lost, and remove tamarisk and Russian olive.

The park illuminates many stages of restoration and bank stabilization efforts in a highly utilized area. Active revegetation, initial tamarisk and Russian olive removal, and maintenance are all happening today; a great example of the many stages of restoration. Choose to head home after the field visit or join us for lunch and beer around the corner at the Palisade Brewing Company. Attendees are on their own for food and drinks.

### OPTION 2

**SITE VISIT | POST-FIRE RESTORATION**

**8:00 AM ~ 12:00 PM**

**$20, TRANSPORTATION PROVIDED**

**MEET AT THE LOBBY OF TRU BY HILTON AT 7:45 AM**

Join Ivan Archer with Colorado Parks and Wildlife and Ellis Thompson-Ellis with the Grand Junction Fire Department/Two Rivers Wildfire Coalition for a discussion surrounding restoration and collaboration after fire.

On April 19th, 2018 a brush fire near I-70 on [Skipper’s Island](https://www.skipperisland.com) burned 220 acres. By Thursday afternoon the fire was pushed by wind and began burning rapidly toward I-70 prompting a full shut down of the interstate.

The condition of the area pre-fire was of an aged and dying Cottonwood gallery, with very little new regeneration naturally occurring. Below the cottonwoods, the area included a tangled web of downed timber, Sumac, and Privet shrubs, as well as ground cover of Russian knapweed. Attendees will learn about the plans and funding set aside to rehabilitate the area after the fire, starting first with controlling the severe Russian knapweed, tamarisk, and Russian olive infestations before replanting and reseeding with native species.

Attendees will also learn about the Two Rivers Wildfire Coalition and how the collaboration is addressing invasive species removal and tackling restoration on a landscape-scale.

This site visit is limited to the first 25 people.
OPTION 3

WORKSHOP | USING MYCORRHIZAL FUNGI IN RESTORATION PROJECTS OF THE SOUTHWESTERN U.S. WITH NORTHERN ARIZONA UNIVERSITY

8:00 AM ~ 12:00 PM
$20, TRANSPORTATION PROVIDED
MEET IN THE WEST BALLROOM AT 8 AM

Most plants benefit from associations with mycorrhizal fungi that improve plant nutrition and stress tolerance in exchange for photosynthate. The abundance and diversity of mycorrhizal fungi can be altered following land-use changes including fuel reduction activities, fire, drought, tree mortality, invasive plant species, and grazing. Does that mean that restoration projects should include additions of mycorrhizal fungi? If so, are products available commercially likely to be helpful or should other approaches be used? Are there options that are biologically and financially effective? This workshop will explore those questions and provide examples of how mycorrhizal fungi and other soil organisms are being used to enhance restoration outcomes in the southwestern United States.

The workshop will include short talks and discussions, and a hands-on demonstration of the easiest inoculation method. Participants will have the opportunity to prepare their own riparian inoculation bin. This workshop will prepare land managers to collaborate with mycologists, and select and implement the best techniques for their own restoration projects.

This workshop is limited to the first 20 people.

OPTION 4

WORKSHOP | COLLABORATIVE RESTORATION WITH PRIVATE LANDS

8:30 AM — 12:30 PM
$20, LUNCH PROVIDED BY NRCS
MEET IN THE EAST BALLROOM AT 8:30 AM

Join us for an interactive workshop and panel moderated by Stacy Beaugh from Strategic by Nature that will connect public land managers and private landowners; providing an opportunity to discuss projects, funding, and other resources as it relates to restoration on private lands.

Speakers include:

- Shane Burton, Private Landowner
- Bob and Liz Petrus, Private Landowners
- Sparky Taber, Bureau of Land Management (retired)
- Callie Hendrickson, White River & Douglas Creek Conservation Districts
- Sarah Wilson, NRCS/RiversEdge West
- Shelly Simmons, RiversEdge West/Spanish Peaks-Purgatoire River Conservation District

This workshop is free to private landowners. Contact Cara at Ckukuraitis@Riversedgewest.org to RSVP.