

TWENTY-THIRD MEETING
OF THE
ARIZONA RIPARIAN COUNCIL
AND
NON-NATIVE PLANT
IDENTIFICATION WORKSHOP

THE LODGE AT CLIFF CASTLE
CAMP VERDE, ARIZONA
APRIL 16-18, 2009

WHO'S INVADING OUR
RIPARIAN SPACE?



PROGRAM AND ABSTRACTS
2009

Twenty-Third Annual Meeting Arizona Riparian Council



Who's Invading Our Riparian Space? The Lodge at Cliff Castle Camp Verde, Arizona April 16-18, 2009

Thursday, April 16th: Plenary Session

- 7:30 - 8:00 **Registration**
- 8:00 - 8:15 **Welcome** – Kris Randall, Arizona Riparian Council President
- 8:15 - 9:00 ***Invasive Species and the Economics of Doing Business*** – Dr. Charles Perrings, ecoServices Group, School of Life Sciences, Arizona State University at the Tempe campus
- 9:00 - 9:30 ***Managing Invasive Species in Fossil Creek*** – Dr. Jane Marks, College of Engineering, Forestry, and Natural Sciences, Northern Arizona University
- 9:30 - 10:00 ***Invasive Plants in Riparian Areas of the Verde Valley*** – Jeff Schalau, County Director, Yavapai County, University of Arizona Cooperative Extension
- 10:00 - 10:15 **Break and Poster Viewing**
- 10:15 - 10:45 ***Tamarisk – Can It Be Managed?*** – Dr. Ed Glenn, Environmental Research Lab, Department of Soil, Water and Environmental Science, University of Arizona

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- 10:45 - 11:15 ***Strategies for Dealing with Invasive Species through the Arizona Invasive Species Management Plan*** – Brian McGrew, Arizona Department of Agriculture Member, Arizona Invasive Species Advisory Council
- 11:15- 11:45 ***Panel Discussion and Audience Q&A***
- 11:45 - 1:15 ***Lunch***
- 1:15 - 1:45 ***Business Meeting and Introduction to Technical Session***
- 1:45 - 2:00 ***The Role of Genetics in Riparian Restoration and Coping with Climate Change*** – Tom Whitham and Alicyn Gitlin, Department of Biological Sciences and the Merriam-Powell Center for Environmental Research, Northern Arizona University
- 2:00 - 2:15 ***Invasive Salt Cedar is an Agent of Selection in the Native Foundation Species, Fremont Cottonwood*** – Brian Cardall, Steve Shuster, Gery Allan, and Tom Whitham, Department of Biological Sciences Department of Biological Sciences and the Merriam-Powell Center for Environmental Research, Northern Arizona University, Northern Arizona University
- 2:15 - 2:30 ***Experimental Treatments Indicate Fremont Cottonwood is a Foundation Species that Enhances Performance of Other Plant Species and Increases Arthropod Diversity and Abundance*** - Sharon Ferrier, R.K. Bangert, Alicyn R. Gitlin, L. Hagenauer, K. Kennedy, Tom G. Whitham, and G.J. Allan, Department of Biological Sciences and the Merriam-Powell Center for Environmental Research, Northern Arizona University, Northern Arizona University
- 2:30 - 2:45 ***A Mammalian Herbivore Changes Arthropod Communities on Populus fremontii*** - Rachel Curmi, Department of Biological Sciences, Northern Arizona University, Northern Arizona University
- 2:45 - 3:00 ***Break and Poster Viewing***
- 3:00 - 3:15 ***Geomorphic Response to Land Use Change, Middle Verde River, Arizona*** - Sharon R. Masek Lopez, Water Resources Program, The Hopi Tribe
- 3:15 - 3:30 ***Weeds and Vegetation: Letting Invasive Plants Join the Community*** - Garry Rogers, Agua Fria Open Space Alliance, Inc.
- 3:30- 3:45 ***Weed Management to Support Habitat Restoration Efforts in the Riparian Corridor of Picture Canyon along the Rio De Flag, Flagstaff***- Stephanie Yard,

Natural Channel Design; A. Hendricks, Forest Management & Conservation, Arizona State Forestry Division; and J. Davison, Utilities Department, City of Flagstaff

- 3:45 - 4:00 ***Weed Management Strategy to Support Restoration Efforts along Wet Beaver Creek at the National Park Service Montezuma Well Unit*** - Allen Haden, Natural Channel Design; Dennis Casper, National Park Service - Montezuma Castle/Montezuma Well & Tuzigoot National Monument; and Stephanie Yard, Natural Channel Design
- 4:00 - 4:15 ***Volunteer Efforts to Remove Arundo donax (Giant Reed) from Sabino Canyon*** - Jim Washburne, SAHRA, University of Arizona, and Candice Rupprecht, Water Resources Research Center, University of Arizona
- 4:15- 4:30 ***Weed Management at White Bridge and Beasley Flats*** - Laura Moser, Coconino National Forest
- 4:30 - 5:00 Open discussion and overview of workshop
- 6:00 - 8:00 ***Tamarisk: From Good (and Pretty) to Bad and Ugly*** - Matthew K. Chew, School of Life Sciences, Arizona State University

Posters (view during breaks)

Filming the Invasion: Monitoring Invasive Species with Repeat Photography - Garry Rogers, Agua Fria Open Space Alliance, Inc.

Verde Valley Geospatial Database and Hydraulic Model – Verde River, Arizona - Rob Ross and Abe Springer, Department of Geology, Northern Arizona University

Tamarix and Ecosystem Change: Perpetuation of a Mythology - Juliet C. Stromberg, Matthew K. Chew, School of Life Sciences, Arizona State University; Pamela L. Nagler, U.S. Geological Survey, Southwest Biological Science Center, Sonoran Desert Research Station, University of Arizona; and Edward P. Glenn, Department of Soil, Water and Environmental Science, University of Arizona

Riparian Forest Change Following Extreme Disturbance: Case Study of San Pedro River, Arizona - Juliet C. Stromberg, Melanie G. F. Tluczek, and Andrea F. Hazelton, School of Life Sciences, Arizona State University

Friday, April 17, 2009
Non-Native Plant Identification Workshop

Workshop Instructors:

JOHN BROCK, Emeritus Professor, School of Applied Biological Sciences, Arizona State University
at the Polytechnic Campus

KELLY STEELE, Associate Professor, School of Applied Biological Sciences, Arizona State
University

FRANCES (“ED”) NORTHRAM, Ph.D., Weed Biologist, University of Arizona Cooperative
Extension Office

C. DOUGLAS GREEN, Phoenix Chapter President, Arizona Native Plant Society

9:00 AM

Weed Biology: Society and Politics – Ed Northam

The Native Plant Society and Weeds – C. Douglas Green

Break

Weed Biology: The Ecological Traits of Weeds – John Brock

Plant ID Review for Professionals – Kelly Steele

Lunch Buffet

Afternoon Session: *Weed Identification by the Numbers*

Each of the workshop leaders will be discussing riparian (mostly) weed taxa identification techniques. This session will also include plant specimens to hone skills. We will also provide information for tomorrow's in-the-field session.

Saturday, April 18, 2009

Field Trip

8:30 AM

Meet in lobby. A box lunch will be provided. Plan to carpool if necessary and dress appropriately for going in the field. Don't forget water, sunscreen, hat, and shoes that could possibly get wet.

Weeds In The Field

A field trip to White Bridge and Beasley Flat for on-the-ground identification practice.

All classroom materials will be provided to workshop attendees. There will be a great field guide available for sale at a discounted price of \$20.00.