

2009 Platte River Basin Science and Resource Management Symposium

Wednesday, October 14

- 2-5 p.m. *Tour of Cottonwood Ranch, other stops on the Platte as time permits--
Chad Smith, Headwaters Corporation*
- 6 p.m. *Informal pizza reception and poster viewing (with cash bar)*

Thursday, October 15

- 8:00 a.m. *Registration (coffee, juice, rolls available)*
- 8:25 a.m. *Welcome and Announcements*

Moderator: *Chad Smith, Headwaters Corporation*

- 8:30 a.m. *Land, Water, and Science: Platte River Recovery Implementation Program Status Update -- Jerry Kenny, Executive Director, Platte River Recovery Implementation Program; Jennifer Schellpeper, Nebraska Department of Natural Resources and PPRIP Governance Committee; Jim Jenniges, Nebraska Public Power District and PPRIP Technical Advisory Committee and Adaptive Management Working Group; Mark Czaplewski, Central Platte Natural Resources District and PPRIP Land Advisory Committee; Don Anderson, US Fish & Wildlife Service and PPRIP Water Advisory Committee*
- 9:30 a.m. *Platte River Program Independent Scientific Advisory Committee -- Dave Marmorek, ESSA Technologies; David Galat, Missouri Cooperative Fish and Wildlife Research Unit; Philip Dixon, Iowa State University; John Nestler, Environmental and Fisheries Services; Kent Loftin, SynInt, Inc.; Robb Jacobson, USGS*
- 10:30 a.m. *Break and Poster Viewing*

Moderator:

- 11:00 a.m. *Integrated Water Management in the Platte Basin: Five Years Later - James Schneider, Nebraska Department of Natural Resources*
- 11:30 a.m. *The Environmental Account: The Next 5 Years Under Platte Program Implementation -- Greg Wingfield, US Fish & Wildlife Service*
- 11:45 a.m. *Designing an Intelligent Landscape: A Model for Integrated Climate-Change Effects Assessment in the Greater Platte River Basins - Robert Swanson, US Geological Survey*
- 12:00 p.m. *Lunch and Poster Viewing*

Concurrent sessions beginning at 1:30 p.m.

Session 1:

Moderator:

- 1:30 p.m. *The Mapping of Agricultural Land Sales in the Platte Watershed to Predict Spatial Variations in Land Values and to Estimate Irrigation Retirement Costs - Steven Shultz, University of Nebraska-Omaha*
- 1:45 p.m. *Phragmites australis on the Central Platte River: Distribution of Native and European Haplotypes and European Haplotype Response to Flooding - Diane Larson, US Geological Survey*
- 2:00 p.m. *Leveraging Farm Bill Conservation Programs for Whooping Crane Conservation - Duane Hovorka, National Wildlife Federation*
- 2:15 p.m. *Evapotranspiration and Other Surface Energy Fluxes and Their Relations to Microclimatic Conditions and Plant Physiological Parameters for Various Vegetation Surfaces in the Platte River Valley - Suat Irmak, University of Nebraska-Lincoln*
- 2:30 p.m. *Socioeconomic and Biophysical Influences on Land Cover Change in the Platte River Basin - Michael Stier, US Geological Survey*
- 2:45 p.m. *Groundwater & Surface Water Conflicts in Colorado - an Alarming Trend - Tom Cech, Central Colorado Water Conservancy District*
- 3:00 p.m. *Economic Implications of Alternative Futures for Lake McConaughy - Raymond Supalla, University of Nebraska-Lincoln*
- 3:15 p.m. *Impacts of Phragmites australis on the Biogeochemistry of Riverine Wetlands in Nebraska - Kyle Herrman, University of Nebraska-Lincoln*

3:30 p.m. *Phragmites Control Efforts Along the Platte River - Rich Walters, The Nature Conservancy*

3:45 p.m. *Symposium ends*

Session 2:

Moderator:

1:30 p.m. *Improving Shell Creek Water Quality with Targeted Educational Programming - David Shelton, University of Nebraska-Lincoln*

1:45 p.m. *Roosting Habits of Sandhill Cranes in the Central Platte River Valley, Nebraska - Gary Krapu, US Geological Survey*

2:00 p.m. *Microbial Water-Quality Effects of Migratory Birds in the Platte River - Jason Vogel, US Geological Survey*

2:15 p.m. *Population Dynamics of Shovelnose Sturgeon *Scaphirhynchus platyrhynchus* in the Lower Platte River - Tara Anderson, University of Nebraska-Lincoln*

2:30 p.m. *Changes in Agriculture Affect Spring Carrying Capacity of Sandhill Cranes in the Central Platte River Valley - Aaron Pearse, US Geological Survey*

2:45 p.m. *Patterns vs. Processes: Whooping Crane Trust Experience in Restoring Grasslands in South Central Nebraska - Luis Enrique Ramirez, Platte River Whooping Crane Maintenance Trust*

3:00 p.m. *Foraging Ecology of Least Terns and Piping Plovers Nesting on Central Platte River Sandpits and Sandbars—Mark Sherfy, US Geological Survey*

3:15 p.m. *Updating the Distribution and Population Status of the Platte River Caddisfly, *Ironoquia plattensis* - Lindsay Vivian, University of Nebraska-Kearney*

3:30 p.m. *Geomorphic Monitoring of Habitat Enhancement Activities in the Uridil Property, Platte River, Nebraska - Paul Kinzel, US Geological Survey*

3:45 p.m. *Symposium ends*

Poster Presentations

Russian Olive and Salt Cedar Management Along the North Platte River in Wyoming: A Five County Cooperative IPM Management Plan - Steve Brill, Goshen County Weed & Pest Control District

Goshen County Coordinated Resource Weed Management Area - Russian Olive and Salt Cedar Management on the North Platte River in Goshen County Wyoming - Steve Brill, Goshen County Weed & Pest Control District

Northeastern Colorado's Purple Loosestrife Eradication Project - Tina Booton, Weld County Weed Division Supervisor

Spatial Variations of Streambed Hydraulic Conductivities in Rivers of Nebraska - Xun-Hong Chen, University of Nebraska-Lincoln

Evaluation of the Impacts of Groundwater Pumping on the Streamflow in the Lower Platte River Basin, Nebraska - Cheng Cheng, University of Nebraska-Lincoln

Factors Effecting Breeding Ecology of Brown-Headed Cowbirds (*Molothrus ater*) in Wet Meadows of the Central Platte River Valley, Nebraska - Daniel Kim, Platte River Whooping Crane Maintenance Trust

Using LiDAR to Assess Riparian Forest Structure and Associated Breeding Songbird Abundances Along the Central Platte River, Nebraska, USA - Wesley Newton, US Geological Survey

Groundwater Subarea Delineation Study: Using GIS to Delineate Aquifers in the Lower Platte North Natural Resources District - Karen Griffin O'Connor, Olsson Associates

Stormwater and Greenspace Education and Outreach - David Shelton, University of Nebraska-Lincoln

Analysis of Land Cover Change in the Platte River Basin - Michael Starbuck, US Geological Survey

Satellite Based Energy Balance for Mapping Riparian Evapotranspiration - Gary Stone, University of Nebraska-Lincoln

The Effect of Common Reed (*Phragmites australis*) on River Otter Habitat Use - Amy Williams, University of Nebraska-Lincoln

Temporal and Spatial Abundance, Distribution, and Habitat Use of Sandhill Cranes in the Central Plate River Valley Based on Morning Road Surveys between 2003 and 2008 - Jessica Dooley, Platte River Whopping Crane Maintenance Trust

Spatial Distribution and Abundance of Roosting Sandhill Cranes in the Central Platte River Valley - Karine Gil, Platte River Whooping Crane Maintenance Trust

Private Land Restoration and Management Accomplishments Along the Central Platte River - Rich Walters, The Nature Conservancy

A Range-Wide Assessment of Plains Topminnow (*Fundulus sciadicus*) Distribution and Potential Threats—Chelsey Young, University of Nebraska-Kearney

Bird Species Richness and Abundance Associated with Water Availability, Habitat Management and Climate in South-Central Nebraska - Enrique Weir, Platte River Whooping Crane Maintenance Trust

Macroinvertebrate Response to Buffer Zone Quality in the Rainwater Basin Wetlands of Nebraska - John Riens, University of Nebraska-Kearney

Lower Platte River Corridor Alliance - Promoting the Lower Platte River - Matt Pillard, HDR Engineering

Best Management Practices to Reduce Water Quality Impacts from Land Application Areas - John Gilley, US Department of Agriculture

Grassroots Conservation: Volunteers Contribute to Threatened and Endangered Species Projects and Foster a Supportive Public - Christine Thody, UNL Tern and Plover Conservation Partnership

Assessment of Ecosystem Recovery in Restored Platte River Wetlands - Clinton Meyer, Simpson College

Daily and Seasonal Survival Probabilities of Interior Least Terns and Piping Plovers Along the Lower Platte River in Nebraska - Mary Bomberger Brown, Tern and Plover Conservation Partnership

Developing a Business Case for Statewide Light Detection and Ranging Data Collection: Improving Nebraska's Topographic Dataset, Enhancing our Quality of Life, Fostering Engineering and Scientific Understanding, and Saving Money - Doug Hallum, Staci L.B. Parent, Nebraska Department of Natural Resources