

North American River Management Symposium

Asheville, North Carolina

PRELIMINARY PROGRAM

Tuesday, April 24

5:30 - 10:00 pm

Poster Session, Networking, Vendor Exhibition, Silent Auction

Visit with Symposium sponsors and other exhibitors, and the wide array of silent auction items whose proceeds will benefit future RMS and RiverLink programs!

Posters

Missouri River Water Trail

Gaia Wagner, National Park Service; Tim Cowman, University of South Dakota, Missouri River Institute

The Missouri River Water Trail is a multi-partner, multi-state project that is attracting people to the under-utilized Missouri River. It offers a web presence and signs that not only describe the unique resources along each segment but also serve to de-mystify paddling on the Mighty Mo. The poster will highlight the building of partnerships, funding, education, and outcomes.

GIS-based Landscape-scale River Mapping for Virtual Video Access

Matt Ellison, Ken Swinson, Brett Connell, Bryan McConkey, J. R. Candlish, University of Tennessee

The need to develop GIS-based large-scale maps of river systems led to the design of a GPS-based river videomapping system. The river mapping system is canoe and kayak-mounted with georeferenced under and above water cameras, depth sounder and underwater lasers. GIS maps of streambank characteristics, substrate (modified Wentworth scale), embeddedness (EPA classification), depth and river characteristic (pool, riffle, run) were developed. River rugosity and sinuosity can be determined. The system was used to map 45 river miles of the NPS Obed Wild and Scenic River (OBRI) river system, 81 miles of the NPS Big South Fork River and Recreation Area (BISO) river system, 16 miles of the NPS Great Smoky Mountains (GRSM) Abrams creek and 12 miles of the USFS Cherokee National Forest Citico creek. A snorkel-based underwater mapping system was developed for more detailed mapping. The system provides a georeferenced database for river and stream inventory. GIS-based video tours of the above and below water river features, providing virtual tours within ArcGIS and Google Earth will be demonstrated.

The 'Outstanding Remarkable' Value Recreation across the 13 interconnected river of the recently designated Snake River Headwaters

Sidney Woods, Nancy Arkin, Bridger, US Forest Service/Bridger-Teton National Forest

In 2009, the Craig Thomas Snake River Headwaters Legacy Act designated 400 miles of rivers within one watershed as part of the National Wild and Scenic Rivers System. The rivers cross agency jurisdictions, including Yellowstone and Grand Teton National Parks, the John D. Rockefeller Memorial Parkway, the

National Elk Refuge and the Bridger-Teton National Forest. When considering all the ‘outstandingly remarkable’ values of this area as directed by the Wild and Scenic Rivers Act, three categories may be considered most outstanding and most rare because of their interconnectedness across the watershed. While that concept comes naturally to ecological disciplines like wildlife and fisheries, considering recreation in this manner is somewhat unusual.

This presentation will show the spectrum of recreational settings across this united landscape as integral to the outstanding nature of the recreational value itself. The highly social recreational experience is represented on the mainstem Snake, both in the ‘Canyon’ stretch on the National Forest and in the iconic flatwater section through Grand Teton National Park. Rustic experiences abound along gravel roads, while primitive opportunities follow trails beside the tributaries in designated Wilderness areas. Some portions also support no direct recreational development, allowing for only low numbers of intrepid adventurers.

Growing Stewards Using Rivers as Classrooms

Ed Councill, CEO, Paddlesports Industry Foundation and kidsGROWkentucky

Creating a Water Trail on America’s Great River – The Mississippi

Jon Summers, US Army Corps of Engineers

Supporting Trail Maintainers in the Northern Forests

Walter Opuzynski, Northern Forest Canoe Trail

Water consumption numbers: can we make them matter?

Ken Ransford, Colorado River Basin Roundtable

Hydrokinetic Energy Projects & Recreation: A Guide to Assessing Impacts

Joan Harn, National Park Service

GIS-based Mapping of Outstandingly Remarkable Values on the Wekiva Wild and Scenic River

Stephanie Kerrigan and Paul Ayers, University of Tennessee