



White River Basin Forum
Technical Papers Session

Nov. 2, 2000

Arkansas State University
Mountain Home

- 9:00 Welcome - Ken Steele and John Havel
- 9:10 **Water Quality Sampling on the Kings River near Berryville, Ark.** Thomas S. Soerens, Dept. of Civil Engineering, University of Arkansas, Fayetteville; and Marc A. Nelson, Arkansas Water Resources Center, University of Arkansas, Fayetteville
- 9:30 **Pastureland and Storm Impacts on Water Quality of Six Small Streams in the White River Basin**
K.F. Steele, P.F. Vendrell, M.A. Nelson, Arkansas Water Resources Center and the Dept. of Geosciences; David Mott, National Buffalo River, Harrison, Ark.; R.G. Roggio, Dept. of Geosciences, Arkansas Water Resources Center, University of Arkansas, Fayetteville
- 9:50 **Karst Cave Systems as Nonpoint Sources of Phosphorus and Metals**
Robert T. Pavlowsky, Dept. of Geography, Geology, and Planning, Southwest Missouri State University, Springfield, Missouri
- 10:10 **Nonpoint Pollution Monitoring Using Bed Sediment Surveys in the James River Watershed**
Brian Fredrick and Robert T. Pavlowsky, Dept. of Geography, Geology, and Planning, Southwest Missouri State University, Springfield
- 10:30 Break
- 11:00 **The Use of Aquatic Macroinvertebrates to Grade Stream Ecosystem Health Around Springfield, Missouri**
Norman W. Youngsteadt, Central Laboratory, City Utilities of Springfield
- 11:10 **Water Quality and Biological Communities of Streams of the White River Basin and Other Areas of the Ozark Plateaus**
James C. Petersen, U.S. Geological Survey, Little Rock
- 11:40 **Ecological Integrity Assessment of Ozark Rivers to Determine Suitability for Protective Status**
Andrea Radwell, Dept of Biological Sciences, University of Arkansas, Fayetteville; and Thomas J. Kwak, U.S. Geological Survey, North Carolina Cooperative Fish and Wildlife Research, North Carolina State University, Raleigh, North Carolina
- 12:00 Lunch
- 1:00 Poster Session (listed other side)
- 2:00 **Reconstruction of Summer Low Flows in the White River from Tree Rings**
Malcolm K. Cleaveland, Geosciences Dept., University of Arkansas, Fayetteville
- 2:20 **White River Reservoir Modeling – Tools for Assessing Water Quality**
W. Reed Green and Brian E. Haggard, U.S. Geological Survey, Little Rock

- 2:40 **Eutrophication in the Upper White River Lakes: Preliminary Analysis of Bull Shoals Lake**
John E. Havel, Kristen Pattinson and Russell G. Rhodes, Dept. of Biology, Southwest Missouri State University, Springfield
- 3:00 Break
- 3:20 **Lakes of Missouri Volunteer Program: Data from the White River Basin**
Dan V. Obrecht, Fran Pope and John R. Jones, Dept. of Fisheries and Wildlife Sciences, University of Missouri, Columbia, Missouri
- 3:40 **The White River: A Case History of Man's Effects on a Big River**
Kenneth E. Shirley, Arkansas Game and Fish Commission, Mountain Home, Arkansas
- 4:00 Discussion and Conclusions
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Posters

A Web-Based Database on the Upper White River Watershed

Michael R. Dickerson, John E. Havel and Russell G. Rhodes, Bull Shoals Field Station, Dept. of Biology, Southwest Missouri State University, Springfield

A 20-Year History of Landcover Change in the Upper White River Basin

Jason M. Kuhlman, Robert C. Weih, Spatial Analysis Laboratory, Arkansas Forest Resources Center, School of Forest Resources, University of Arkansas, Monticello, Arkansas; Philip A. Tappe and Hal O. Liechty, Arkansas Forest Resources Center, School of Forest Resources, University of Arkansas, Monticello

Current University of Missouri Water Quality Projects Within the White River Basin

Daniel V. Obrecht, John R. Jones and Fran Pope, Dept. of Fisheries and Wildlife Sciences, University of Missouri, Columbia

Historical Mining Pollution and Overbank Sedimentation Along the Pearson Creek and James River, Springfield, Missouri

Marc R. Owen and Robert T. Pavlowsky, Dept. of Geography, Geology, and Planning, Southwest Missouri State University, Springfield

Host Utilization and Suitability Among *Venustaconcha* Populations in Different River Drainages

Frank A. Riusech and M. Christopher Barnhart, Dept. of Biology, Southwest Missouri State University, Springfield

GIS-Based Assessment of Nonpoint Pollution using Bed Sediment Surveys in the Kings River Basin, NW Arkansas

Jason White and Robert T. Pavlowsky, Dept. of Geography, Geology, and Planning, Southwest Missouri State University, Springfield

Bank Erosion Rate Estimation Using Historical Aerial Photography Analysis and GIS, James River, Springfield

Ryan Wyllie, Dept. of Geography, Geology, and Planning, Southwest Missouri State University, Springfield