

Fourth Reservoir Symposium

Balancing Fisheries Management and Water Uses for Impounded River Systems

**June 2007
Atlanta, Georgia**

June 6:

03:00 - 05:00 pm National Fish Habitat Initiative in Reservoirs Workshop
Dinner on Your Own

June 7:

08:00 - 09:00 am Plenary Session: Reservoir Management Beyond the Shorelines
09:00 - 09:15 am BREAK
09:15 - 11:45 am Technical Sessions
11:45 - 01:00 pm LUNCH (on your own)
01:00 - 03:05 pm Technical Sessions
03:05 - 03:20 pm BREAK
03:20 - 05:00 pm Technical Sessions
06:00 - 10:00 pm Poster Social, Grand Salon Promenade

June 8:

08:00 - 10:00 am Technical Sessions
10:00 - 10:20 am BREAK
10:20 - 11:40 am Technical Sessions
11:30 - 01:00 pm LUNCH (on your own)
01:00 - 03:00 pm Technical Sessions
03:00 - 03:20 pm BREAK
03:20 - 04:40 pm Technical Sessions
04:40 pm Transportation begins for Aquarium
05:00 - 07:00 pm Aquarium Touring (on your own)
06:00 - 10:00 pm Social, Oceans Ballroom, Georgia Aquarium

June 9:

08:00 - 10:00 am	Technical Sessions
09:40 - 10:00 am	BREAK
10:00 - 11:40 am	Technical Sessions
11:40 - 12:00 pm	Symposium Overview and Wrap Up

Tentative Program

June 7, 2007

Plenary Session: Reservoir Management Beyond the Shorelines

- 08:00 - 08:30 am Reservoir management at a crossroads: the new demands of resource management in the 21st Century. L.E. Miranda, USGS, MS Coop. Fish and Wildl. Res. Unit, Miss. State University
- 08:30 - 09:00 am Economics of Conflicting Uses of Water in Reservoir Systems. E. Niemi, ECONorthwest
- 09:00 - 09:15 am BREAK

Session I - Balancing Fisheries Issues with Basin-wide Water Uses

- 09:15 - 09:40 am The White River Fisheries Partnership: A template for cooperative fisheries management in Arkansas and Missouri. M. Armstrong, AGFC and C. Vitello, MDC.
- 10:05 am The effects of flow management on the Missouri River and its associated impoundments. J.W. Erickson, SDGFP, M. Rath, SD DENR, D. Best, SD Att Gen Office
- 10:30 am Peace in the Valley: Competing interests on Tennessee Valley Authority reservoirs. T. Churchill, TWRA, W.L. Poppe, TVA, and W.C. Reeves, TWRA
- 10:30 - 10:55 am Balancing reservoir releases, electric power demands, and instream biotic habitat in the Roanoke River system. J. A. Gore, USF.
- 10:55 - 11:20 am Columbia River Basin. N. Ward, CBFWA
- 11:20 - 11:45 am The Colorado River Basin: Native fish conservation in an impounded river system. T. A. Burke, Bureau of Reclamation.
- 11:45 am - 01:00 pm LUNCH, ON YOUR OWN
- 01:00 - 01:25 pm The evolution of fisheries management of the Upper Chattahoochee River in response to changing water management. J.M. Long, NPS, and C. Martin, GDNR. (May move this one to another session)
- 01:25 - 01:50 pm **ACF talk. Lewis Jones, King and Spalding, LLC.
- 01:50 - 02:15 pm **A comprehensive approach to balancing water for fish and people. C.J. Goudreau, NCWRC, and 10 coauthors (CONTRIBUTED)
- 02:15 - 02:40 pm **Fish Soup - an Australian case study. N. Fowler, Dept of Primary Industries. (CONTRIBUTED)
- 02:40 - 03:05 pm **Coldwater Fishery Potential in the reservoirs in the Himalayan foothills in Nepal. T.K. Shrestha, Tribhuvan University (CONTRIBUTED)
- 03:05 - 03:20 pm BREAK

Session II - Tools for Reservoir Fishery Managers: Aquatic Habitat

- 03:20 - 03:40 pm Successes and failures of planting aquatic vegetation in reservoirs, M. Smart, US Army Corps of Engineers, Lewisville, TX
- 03:40 - 04:00 pm Cooperative fish habitat management in Pennsylvania reservoirs. D.F. Houser, PFBC
- 04:00 - 04:20 pm Lake Havasu Fisheries Improvement Program. B. Jacobson and J. Warnecke, AGFD, and K. Koch, BLM
- 04:20 - 04:40 pm Toxic *Prymnesium parvum*: A potential threat to U.S. reservoirs. D. Sager, TPWD, and E. Swanson, AGFD, and 10 coauthors
- 04:40 - 05:00 pm Impacts of reservoir water quality dynamics on summer mortality of striped bass and blueback herring. J. Rice, NCSU, C. Waters, NCWRC, and W. Bales, SCDNR.

June 8, 2007

- 08:00 - 08:20 am **Handling of fish gradients: Towards the precise assessment of the fish assemblages in reservoirs. M. Prchalova, and 12 coauthors, University of South Bohemia, Czech Republic (CONTRIBUTED)
- 08:20 - 08:40 am **Cove fidelity of crappies during spawning seasons in a Nebraska irrigation reservoir. N.J. Fryda, K.D. Koupal, and W.W. Hoback, UNK. (CONTRIBUTED)
- 08:40 - 09:00 am **Patterns of ecological succession and fragmentation: effects of aging on reservoir habitats. T. Patton and C. Lyday, SOSU. (CONTRIBUTED)

Session III - Tools for Reservoir Fishery Managers: Human Dimensions

- 09:00 - 09:20 am Use of on-line surveys and panels for rapid and ongoing assessment of public opinion. B. Wattendorf, FWC
- 09:20 - 09:40 am Citizen Advisory Committees as a reservoir fishery management tool: Experiences from three cases in Arkansas. M.L. Armstrong, AGFC
- 09:40 - 10:00 am Integrating reservoir resource data into Customer Relationship Management (CRM) programs. M. Costello, SAS Institute and G. Summers, ODWC.

10:20 am BREAK

10:40 am Human dimensions data needs for Golden Algae events, harmful algal blooms, oil spills, and other reservoir disasters. R. Ditton, TAMU.

- 10:40 - 11:00 am Communicating With Anglers: A Lake Norman Case History. C. Waters, NCWRC

Session IV - Tools for Reservoir Fishery Managers: Catch and Release and Use of Regulations

- 11:00 - 11:20 am Effects of catch and release tournament fishing on dispersal and population characteristics of black bass in Lake Martin, Alabama. B.R. Ricks and M.J. Maceina, Auburn University.

- 11:20 - 11:40 am Walleye tournaments: Are they any different from bass tournaments? H. Schramm, USGS, MS Coop. Fish and Wildl. Res. Unit, Miss. State University and B. Vondracek, USGS, MN Coop. Fish and Wildl. Res. Unit, University of Minnesota.
- 11:40 am - 01:00 pm LUNCH ON YOUR OWN
- 01:00 - 01:20 pm Development of state-wide regulation tool boxes for Minnesota lakes. J.R. Reed and M.C. McInerney, MN DNR
- 01:20 - 01:40 pm ****Population response of Bear Lake cutthroat trout *Oncorhynchus clarki utah* to the imposition of a slot limit, and the commensurate suppression of populations of non-native Utah chub *Gila atraria* in Strawberry Reservoir, Utah. A. Ward, J. Robinson, and R. Wilson, UDWR (CONTRIBUTED)**
- 01:40 - 02:00 pm ****Practices and perceptions of Texas anglers towards voluntary release of largemouth bass and slot length limits. C. Bonds, J.B. Taylor, and J. Leitz, TPWD (CONTRIBUTED)**

Session V - Tools for Reservoir Fishery Managers: Stocking Issues

- 02:00 - 02:20 pm Challenges of using prey allocation to maximize reservoir sportfish capacity. S. Hale, ODNR
- 02:20 - 02:40 pm Evaluation of supplemental stocking efforts on the trout fishery in Henry's Lake, Idaho. D. Garren, J. Fredricks, and D. Keen, IDFG.
- 02:40 - 03:00 pm Evaluation of walleye stockings in two large Missouri reservoirs. P. Michaletz, J. Allman, and T. Banek, MDC
- 03:00 - 03:20 pm BREAK
- 03:20 - 03:40 pm Largemouth bass stocking in Florida lakes. M. Rodgers and M. Allen, University of FL
- 03:40 - 04:00 pm Factors influencing largemouth bass stocking success and the implications for natural fish communities. M. J. Diana and D.H. Wahl, INHS

Session VI - Tools for Reservoir Fishery Managers: Assessment and Analysis

- 04:00 - 04:20 pm Largemouth bass in Puerto Rico reservoirs: Adaptive management through research. Wesley Neal, UAPB
- 04:20 - 04:40 pm ****Exploring stunted sunfish populations: what's the big deal with small body size? D.D. Aday, NCSU. (CONTRIBUTED)**

June 9, 2007

- 08:00 - 08:20 am** Fish consumption advisories in US reservoirs. J. Ney, Virginia Polytechnic Institute and State University (retired)
- 08:20 - 08:40 am** The rise and fall of a dominant prey resource: Walleye response to rainbow smelt population declines and subsequent liberalized angling regulations in a Missouri River mainstem reservoir. B.D.S. Graeb, S.R. Chipps and D.W. Willis, SDSU, J.P. Lott, and W. Nelson-Stastny, SDGFP.
- 08:40 - 09:00 am** Lake sturgeon reintroduction in the Coose River system, Georgia. D. Peterson and J.D. Bezold, UGA
- 09:00 - 09:20 am** Assessment of physical, chemical, and biological factors and angling upon bluegill and crappie populations. R. Schultz, IA DNR
- 09:20 - 09:40 am** Gizzard shad: A prey species at the northwestern edge of its range. M.R. Wuellner, B.D.S. Graeb, and D.W. Willis, SDSU
- 09:40 - 10:00 am** BREAK
- 10:00 - 10:20 am** Use of herbicides in reservoirs. M. Netherland, UF.
- 10:20 - 10:40 am** **Evaluating tradeoffs for efficiently passing juvenile salmonids through Bonneville Dam on the Lower Columbia River, G. Ploskey, M. Weiland, PNNL, and J. Kim, PSMFC (CONTRIBUTED)
- 10:40 - 11:00 am** **Trends over time for the Arkansas River fishery: Analysis of biomass from rotenone sampling. R. Limbird, J. Ahlert, L. Rider, W. Bivin, and J. Quinn. (CONTRIBUTED)
- 11:00 - 11:20 am** **The largemouth bass population and fish community structure in Area 7 Reservoir: a marsh restoration project in central Florida. W.F. Porak, C. Steward, and W.E. Johnson, FFWCC, M. Sepulveda, Purdue Univ, T. Gross, UFL. (CONTRIBUTED)
- 11:20 - 11:40 am** Looking forward and backward at the "Cross-Walk". D. Dennerline and J. Peterson, USGS, and Don Degan, Aquacoustics (CONTRIBUTED)
- 11:40 am** SYMPOSIUM OVERVIEW AND FINAL THOUGHTS. M. Allen, UFL, and S.M. Sammons, AU

Alternates for Symposium (if no slots open up, these will be included in the poster session)

- 1) **Spatial distribution of fish in cascade and non-cascade reservoirs in Central Europe. V. Draščík, J. Kubečka, M. Tušer, T. Jůza, and O. Jarolím**
- 2) **An evaluation of common reservoir conflicts using predictive relationships between water quality and productivity and fish growth potential. P. Budy, G. Thiede, and K. Dahle, USGS, Utah Coop Fish and Wildlife Research Unit.**
- 3) **Application of Multimetric Bioassessment Techniques in a 316(a) Demonstration at Georgia Power Company's Plant Branch, Lake Sinclair, Georgia. T.E. Cheek, A. R. Dodd, and R.G. King, Geosyntec Consultants, Inc, and S. Henricks and B. Evans, GA Power Co.**
- 4) **Use of an incremental triploid grass carp stocking plan for maintaining vegetation coverage in a riverine Texas reservoir. E. Chilton and S.J. Magnelia, TPWD.**
- 5) **Assessing larval fish assemblages and their impacts on reservoir communities: What happens when the shad are gone? M.T. Porath and J.J. Jackson, NGPC**

Poster Social, Grand Salon Promenade

June 7, 2006, 06:00 - 10:00 pm

- 1) **A Four-Year Drought Increases Mean Water Temperature and Lowers Mean Chlorophyll *a* in a Nebraska Irrigation Reservoir, B.P. Olds, B.C. Peterson, K.D. Koupal, W.W. Hoback, and K.M. Skinner**
- 2) **The Importance of Reservoirs in the Western U.S. for the Recovery of Endangered Populations of Anadromous Rainbow Trout (*Oncorhynchus mykiss*). F. Thrower, J.E. Joyce, A. Celewycz, and P. Malecha**
- 3) **Time Series Models of Some Physical, Chemical and Biological Components in the Early Life of a Reservoir. F.J. Brenner, Grove City College, and R. P. Steiner, The University of Akron**
- 4) **Crowding and Response: Angler Perceptions on Western North Carolina Reservoirs. D. L. Yow, K.B. Hodges, and A.P. Wheeler, NCWRC**
- 5) **Are Blueback Herring Distributed Randomly within Desired Habitat During Summer Stratification? J.Ruiz, USGS, Georgia Cooperative Fish and Wildlife Research Unit, D. Degan, Aquacoustics Inc., D. Dennerline, USGS, Georgia Cooperative Fish and Wildlife Research Unit, and W. Jabour, USACE**
- 6) **Food Habits of Co-occurring Populations of Largemouth Bass and Spotted Bass in Two New Mexico Reservoirs. K. L. Pope, S.R. Denny, C.L. Harthorn, and C.J. Chizinski, and K.K. Cunningham.**
- 7) **Changes in the fish community after reservoir drawdown in two New Mexico Reservoirs. S.R. Denny and C.L. Harthorn**
- 8) **A Multidisciplinary Approach to Monitoring Ecological Effects of Lake Level Management on Voyageurs National Park. S. Windels, NPS, L. Kallemeyn, USGS, and R. Maki, and C. Holbeck, NPS.**
- 9) **Preliminary Impacts of the Three Gorges Dam on Fisheries of the Yangtze River, China. B.R. Murphy, VPI&SU and X. Songguang, Chinese Academy of Sciences**