

**PLATFORM PROGRAM  
HOTEL BALLROOM A  
THURSDAY, APRIL 1, 2004**

8:00 - 8:10 AM Welcome and Announcements  
**Mike Romano**, MRRC President

**SESSION I – FISH** (Moderator: Brent Knights)

8:10 – 8:30 AM SPATIAL STRUCTURE AND TEMPORAL VARIATION OF FISH COMMUNITIES IN THE UPPER MISSISSIPPI RIVER. **John H. Chick**<sup>1</sup>, Brian Ickes<sup>2</sup>, Mark A. Pegg<sup>3</sup>, Valerie A. Barko<sup>4</sup>, Robert A. Hrabik<sup>4</sup> and David P. Herzog<sup>4</sup>. <sup>1</sup>Illinois Natural History Survey, Great Rivers Field Station, 8450 Montclair Ave, Brighton, IL 62012. <sup>2</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, 2630 Fanta Reed Road, La Crosse, WI 54603. <sup>3</sup>Illinois Natural History Survey, Illinois River Biological Station, 704 North Schrader, Havana, IL 62644. <sup>4</sup>Missouri Department of Conservation Open River Field Station, 3815 E. Jackson Blvd., Jackson, MO 63755.

8:30 – 8:50 AM LARVAE PROVIDE FIRST EVIDENCE OF SUCCESSFUL REPRODUCTION BY PALLID STURGEON IN THE MISSISSIPPI RIVER. **Robert A. Hrabik**, David P. Herzog, David E. Ostendorf, and Michael D. Petersen<sup>1</sup>. Missouri Department of Conservation, Resource Science Division, Open Rivers and Wetlands Field Station, Jackson, MO 63755 <sup>1</sup>Missouri Department of Conservation, Cassville, MO 65625

8:50 – 9:10 AM TEMPORAL DIFFERENCES IN GROWTH OF YOUNG-OF-YEAR BIGHEAD CARP *HYPOPHTHALMICHTHYS NOBILIS* AND SILVER CARP *HYPOPHTHALMICHTHYS MOLITRIX* IN THE ILLINOIS RIVER. **Kevin S. Irons**, Mark A. Pegg, T. Matt O'Hara, and Michael A. McClelland. Illinois River Biological Station, Illinois Natural History Survey, 704 N. Schrader Ave, Havana, Illinois 62644 Phone: 309 543-6000 email: kiron@uiuc.edu

9:10 – 9:30 AM SPATIAL AND TEMPORAL VARIATION IN THE RELATIVE ABUNDANCE OF UPPER MISSISSIPPI RIVER FISH SPECIES. **Daniel J. Kirby**<sup>1</sup>, and Brian S. Ickes<sup>2</sup>. <sup>1</sup>Iowa Department of Natural Resources, 206 Rose Street, Bellevue, Iowa, USA 52031 <sup>2</sup>U.S. Geological Survey, Biological Resources Division, Upper Midwest Environmental Sciences Center, 575 Lester Avenue, Onalaska, Wisconsin, USA 54650

9:30 – 9:50 AM A COMPARISON OF TWO ELECTROFISHING GEARS USED FOR FISH MONITORING ON THE ILLINOIS RIVER. **Michael A. McClelland**, Mark A. Pegg, Kevin S. Irons, T. Matt O’Hara, and Thad R. Cook. Illinois Natural History Survey, Illinois River Biological Station, 704 N. Schrader Ave, Havana, Illinois 62644.

9:50 – 10:10 AM **BREAK**

**SESSION I – FISH** *cont.* (Moderator: Sean Jenkins)

10:10 – 10:30 AM UPSTREAM FISH PASSAGE OPPORTUNITIES AT OHIO RIVER MAINSTEM DAMS. **Brent C. Knights**, Joseph H. Wlosinski, John A. Kalas, and Sean W. Bailey. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, Wisconsin 54603.

10:30 – 10:50 AM Analysis of Caged Bluegill Spawning and Fingerling Production at Fairport Hatchery, IA. **Aleshia Kenney**<sup>1,2</sup>, Ken Snyder<sup>2</sup> and Richard V. Anderson<sup>1</sup>. <sup>1</sup>Department of Biological Sciences, Western Illinois University, Macomb, IL 61455 <sup>2</sup>Fairport Hatchery, Iowa DNR, Fairport, IA

10:50 – 11:10 AM The Evaluation Of Three Off-shore Fisheries Gears In Lake Chautauqua, Illinois River. **T. Matt O’Hara**, Kevin S. Irons, Michael A. McClelland and Mark A. Pegg. Illinois River Biological Station, Illinois Natural History Survey, 704 N. Schrader Ave, Havana, Illinois 62644

**SESSION II – VEGETATION**

11:10 – 11:30 AM ON THE COMPETITION FOR LIGHT BETWEEN AMERICAN WILDCELERY AND SAGO PONDWEED AT HIGH AND LOW NUTRIENT AVAILABILITY: A MODELING APPROACH. **Elly P.H. Best**, Gregory A. Kiker, and William A. Boyd U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS 39180-6199.

11:30 – 11:50 AM EFFECTS OF REED CANARY GRASS (*Phalaris arundinacea*) ON TERRESTRIAL ARTHROPOD ABUNDANCE, BIOMASS, AND DIVERSITY IN UPPER MIDWESTERN RIPARIAN WET MEADOWS. **Melissa S. Meier**<sup>1,2</sup>, Eileen M. Kirsch<sup>1</sup>, and Robin Tyser<sup>2</sup> <sup>1</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54602. <sup>2</sup>River Studies Center, Department of Biology, University of Wisconsin-La Crosse, La Crosse, WI 54601.

11:50 AM– 1:00 PM **LUNCH** (on your own)

**SESSION III – BIVALVES** (Richard Anderson)

- 1:00 – 1:20 PM INVESTIGATION OF FRESHWATER MUSSEL HABITATS USING FIELD MEASUREMENT, HYDRODYNAMIC SIMULATION, AND ECOLOGICAL MODELING. Andrew McCoy, Yenory Morales, **Larry Weber**, and Nathan Young IHR – Hydrosience & Engineering, Department of Civil & Environmental Engineering, The University of Iowa, Iowa City, IA, 52242.
- 1:20 – 1:40 PM SAVING THE HIGGINS EYE PEARLYMUSSEL (*LAMPSILIS HIGGINSII*) FROM EXTINCTION: 2003 STATUS REPORT ON THE ACCOMPLISHMENTS OF THE MUSSEL COORDINATION TEAM. **Gary J. Wege** U.S. Fish & Wildlife Service, 4101 East 80<sup>th</sup> Street, Bloomington, MN, 55425-1665
- 1:40 – 2:00 PM THE RELATIONSHIP BETWEEN HABITAT AND UNIONID MUSSEL SHELL WEIGHT AND SIZE. **Cynthia D. Brownlee** and Richard V. Anderson Department of Biological Sciences, Western Illinois University, Macomb, IL 61455
- 2:00 – 2:20 PM CONSERVATION ASSESSMENTS FOR *Lasmigona compressa*, *Lasmigona costata*, *Ligumia recta*, and *Venustaconcha ellipsiformis* (UNIONIDAE) IN EIGHT NATIONAL FORESTS IN MINNESOTA, WISCONSIN, AND MICHIGAN. **Marian E. Havlik**, Malacological Consultants, 1603 Mississippi Street, La Crosse, WI 54601-4969
- 2:20 – 2:40 PM **BREAK**

**SESSION III - BIVALVES** *cont.* (Moderator: Robert Connour)

- 2:40 – 3:00 PM BLUE CATFISH AND CHANNEL CATFISH ARE SUITABLE HOSTS FOR THE ENDANGERED WINGED MAPLELEAF MUSSEL. **Mark C. Hove**<sup>1</sup>, Mark T. Steingraeber<sup>2</sup>, Michelle R. Bartsch<sup>3</sup>, Daniel J. Hornbach<sup>4</sup>, Marissa McGill<sup>1</sup>, Teresa J. Newton<sup>3</sup>, John A. Kalas<sup>2</sup>, Carrie L. Nelson<sup>1</sup>, and Erick A. Simonsen<sup>1</sup> <sup>1</sup>University of Minnesota, Department of Fisheries, Wildlife, and Conservation Biology, St. Paul, MN 55108, <sup>2</sup>U.S. Fish and Wildlife Service, Fishery Resources Office, Onalaska, WI 54650, <sup>3</sup>U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54603, <sup>4</sup>Macalester College, Biology Department, Saint Paul, MN 55105

## SESSION IV – BIRDS

- 3:00 – 3:20 PM      A HIERARCHICAL SPATIAL COUNT MODEL WITH APPLICATION TO IMPERILED GRASSLAND BIRDS. **Wayne e. Thogmartin**<sup>1</sup>, John R. Sauer<sup>2</sup>, and Melinda G. Knutson<sup>1</sup> <sup>1</sup>Upper Midwest Environmental Sciences Center, U.S. Geological Survey, La Crosse, WI, U.S.A.; <sup>2</sup> USGS Patuxent Wildlife Research Center, Laurel, MD, U.S.A.
- 3:20 – 3:40 PM      BREEDING BIRD HABITAT USE IN RIPARIAN WET MEADOWS: DOES REED CANARY GRASS AFFECT BIRD TERRITORY PLACEMENT? **Eileen M. Kirsch**, Wayne E. Thogmartin, Tim Fox, and Brian R. Gray, USGS, Upper Midwest Environmental Sciences Center, La Crosse, WI, 54603.
- 4:30 - 6:00 PM      **POSTERS**
- 6:30 – 8:00 PM      **BANQUET**

## PLATFORM PROGRAM HOTEL BALLROOM A FRIDAY, APRIL 25, 2003

## SESSION V – MACROINVERTEBRATES (Moderator: Tom Dunstan)

- 8:10 – 8:30 AM      WATER LEVEL MANAGEMENT AND HYDROLOGIC DISTURBANCE GRADIENTS IN BACKWATERS OF A MISSISSIPPI RIVER NAVIGATION POOL: RESPONSES OF MACROINVERTEBRATES AND BENTHIC ORGANIC MATTER. **Michael B. Flinn**<sup>1</sup>, Matt R. Whiles<sup>1</sup>, S. Reid Adams<sup>1,2</sup>, J. E. Garvey<sup>1,2</sup> <sup>1</sup>Department of Zoology, Southern Illinois University, Carbondale, IL 62901 <sup>2</sup>Fisheries and Illinois Aquaculture Center, Southern Illinois University, Carbondale, IL 62901
- 8:30 – 8:50 AM      MACROINVERTEBRATES IN THE MAIN CHANNEL OF THE MISSISSIPPI RIVER NEAR CAPE GIRARDEAU, MO. **Juliann M. Battle**, John K. Jackson, and Bernard W. Sweeney. Stroud Water Research Center, Avondale, PA 19311.

## SESSION VI – WATER QUALITY AND HYDROLOGY

- 8:50 – 9:10 AM SPATIO-TEMPORAL VARIATION IN SESTON AND ITS RELATIONSHIP WITH DISCHARGE IN LTRMP KEY POOLS OF THE UPPER MISSISSIPPI RIVER SYSTEM. **Robert M. Burdis** Minnesota Department of Natural Resources, Mississippi River Monitoring Station, 1801 South Oak Street, Lake City, MN 55041.
- 9:10 – 9:30 AM MONITORING OF NITROGEN CYCLING AT AN UPPER MISSISSIPPI RIVER BACKWATER SITE. **R.M. Kreiling**<sup>1,2</sup>, W.B. Richardson<sup>2</sup>, E.A. Strauss<sup>1,2</sup>, L.A. Bartsch<sup>2</sup>, J.C. Cavanaugh<sup>1,2</sup>. <sup>1</sup>River Studies Center, University of Wisconsin-La Crosse, La Crosse, WI 54601. <sup>2</sup> US Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54603.
- 9:30 – 9:50 AM THE COUPLING OF A TWO-DIMENSIONAL HYDRODYNAMIC/SEDIMENT ROUTING MODEL WITH AN UPLAND WATERSHED EROSION MODEL IN A WATERSHED. **Thanos Papanicolaou**<sup>1</sup> and A. Bdour<sup>1</sup> The University of Iowa, Iowa Institute of Hydroscience and Engineering, Iowa City, Iowa 52242
- 9:50 – 10:10 AM **BREAK, MIDDLE & HIGH SCHOOL STUDENT POSTERS**

## SESSION VI – WATER QUALITY AND HYDROLOGY *cont.*

(Moderator: Susan Meiers)

- 10:10 – 10:30 AM EFFECTS OF FLOOD TIMING AND SPATIAL DISTRIBUTION ON NITRATE EXPORT FROM THE UPPER MISSISSIPPI BASIN. **David M. Soballe**<sup>1</sup>, Dennis M. Wasley<sup>2</sup>, and Richard H. Coupe<sup>3</sup> <sup>1</sup>Environmental Laboratory, Army Engineer Research and Development Ctr, 3909 Halls Ferry Rd, Vicksburg, MS 39180, <sup>2</sup>Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, MN 55155-4194. <sup>3</sup>U. S. Geological Survey, 308 South Airport Road, Pearl, MS 39208-6649

## SESSION VII – TURTLES

- 10:30 – 10:50 AM TURTLE COMMUNITY STRUCTURE IN A BACKWATER LAKE OF THE ILLINOIS RIVER. **John K. Tucker**<sup>1</sup> and James T. Lamer<sup>2</sup> <sup>1</sup> Great Rivers Field Station, Illinois Natural History Survey, 8450 Montclair Ave, Brighton, IL 62012. <sup>2</sup> Department of Biological Sciences, Western Illinois University, 1 University Circle, Macomb, IL 61455.

- 10:50 – 11:10 AM      **GENE FLOW IN THE RED-EARED SLIDER TURTLE**  
(*Trachemys scripta elegans*) **ALONG THE MISSISSIPPI AND**  
**ILLINOIS RIVERS. James T. Lamer<sup>1</sup>, Michael A. Romano<sup>1</sup>,**  
**Richard V. Anderson<sup>1</sup>, John K. Tucker<sup>2</sup>, <sup>1</sup>Western Illinois**  
**University, Dept. of Biological Sciences, Macomb, IL 61455,**  
**<sup>2</sup>Illinois Natural History Survey, 1850 Montclair Ave, Brighton, IL**  
**62012**
- 11:10 – 11:30 AM      **CONSERVATION AND THE COMMON SNAPPING TURTLE**  
(*CHELYDRA SERPENTINA*) **ALONG THE ILLINOIS RIVER.**  
**John K. Tucker<sup>1</sup> and James T. Lamer<sup>2</sup> <sup>1</sup>Great Rivers Field**  
**Station, Illinois Natural History Survey, 8450 Montclaire Ave,**  
**Brighton, IL 62012. <sup>2</sup>Department of Biological Sciences, Western**  
**Illinois University, 1 University Circle, Macomb, IL 61455.**
- 11:30 – 12:00 PM      **MIDDLE & HIGH SCHOOL STUDENT POSTERS**
- 12:00 – 1:30 PM      **LUNCH, BUSINESS MEETING AND RAFFLE**
- 1:30 PM                      **ADJOURN**

**POSTER PRESENTATIONS**  
**THURSDAY, APRIL 1, 2004, 10:00 AM – 6:00 PM**

Authors Present 4:30 – 6:00 PM

(Listing by topic)

**Birds**

DEVELOPMENT OF REMOTE SENSING TECHNIQUES TO DOCUMENT THE DISTRIBUTION AND NUMBERS OF TUNDRA SWANS ON THE UPPER MISSISSIPPI RIVER. **Kevin P. Kenow**<sup>1</sup>, Larry R. Robinson<sup>1</sup>, Brian Lubinski<sup>2</sup>, and James M. Nissen<sup>3</sup>. <sup>1</sup>U. S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI 54603 <sup>2</sup>U. S. Fish and Wildlife Service, Regional Office, Bishop Henry Whipple Federal Building, 1 Federal Drive, Fort Snelling, MN 55111 <sup>3</sup>U. S. Fish and Wildlife Service, Upper Mississippi River National Wildlife and Fish Refuge, Onalaska, WI 54601.

**Fish**

COMPARING FISH TROPHIC DYNAMICS IN THREE FLOODPLAIN RIVERS: THE MISSISSIPPI, OHIO, AND MISSOURI. **Tiffany Schriever** and Michael Delong, Large River Studies Center, Biology Department Winona State University, Winona MN 55987

**Mammals**

*CRITTER TALK.* **Daniel Call**<sup>1</sup>, John Stewart<sup>2</sup>, Michael Willis<sup>3</sup>, Brad Clarke<sup>4</sup>, Nicole Essman<sup>1</sup> and Benjamin Breitbach<sup>1</sup>. <sup>1</sup>Department of Natural & Applied Sciences, <sup>2</sup>Office of Vice President for Academic Affairs, <sup>3</sup>Office of Technology, <sup>4</sup>Department of Education, University of Dubuque, Dubuque, IA 52001

**Mollusks**

BY LAND AND WATER THEY GO: AQUATIC SNAILS IN THE SYSTEM. ARE THEY NATIVE, EXOTIC, INVASIVE OR JUST GREAT BIO-INDICATORS? **Byron N. Karns**<sup>1</sup> and Ellen Strong<sup>2</sup>, St. Croix National Scenic Riverway<sup>1</sup>, National Park Service P.O. Box 708 St. Croix Falls, WI 54024; University of Minnesota<sup>2</sup>, Department of Fisheries, Wildlife and Conservation Biology, 100 Ecology Bldg., 1987 Upper Buford Circle, St. Paul, MN 55108

**Turtles**

EPIZOIC ORGANISMS ON TURTLES IN SELECTED HABITATS OF THE UPPER MISSISSIPPI RIVER. **Cathy L. Ziglar** and Richard V. Anderson  
Department of Biological Sciences, Western Illinois University, Macomb, IL 61455

**Vegetation**

A COMPARISON OF SUBMERSED AQUATIC VEGETATION IN MAIN-STEM FLOODPLAIN HABITATS AND ISOLATED FLOODPLAIN LAKES OF THE ILLINOIS RIVER; IMPLICATIONS FOR RESTORATION. **Thad R. Cook** and Mark A. Pegg. Illinois Natural History Survey, Illinois River Biological Station, Long Term Resource Monitoring Program, 704 North Schrader Ave., Havana, IL 62644.

**Water Quality**

PRELIMINARY SURVEYS AND GIS MAPS OF TOTAL SUSPENDED SOLIDS IN THE CATFISH CREEK WATERSHED, DUBUQUE COUNTY, IOWA. **William Niemann**, Daniel Call, William Knuth, Katrina Krakow, Andrew Huck, Christopher Green and Zachary Gustafson. Department of Natural & Applied Sciences, University of Dubuque, Dubuque, IA