Emiquon Science 2014: Taking Stock Before the Connection

27 March 2014
Illinois State Museum
at Dickson Mounds
March 27, 2014

8:30  Doors open, registration, and coffee.  

9:00  Welcome

Oral Session 1 (authors names in bold = presenter)

9:10  **EMIQUON: OVERVIEW TO A LARGE-SCALE FLOODPLAIN RESTORATION**  
Jeffery W. Walk, K. Douglas Blodgett, A. Maria Lemke, (The Nature Conservancy), Richard E. Sparks, (Illinois Water Resources Center) and Jim R. Herkert, (Illinois Department of Natural Resources), Michael Reuter, (The Nature Conservancy)

9:30  **WATER QUALITY AND BACTERIA COMMUNITY CHANGES IN NEWLY RESTORED THOMPSON LAKE, EMIQUON PRESERVE, IL**  
Michael J. Lemke and Keenan Dungey, (UIS Therkildsen Field Station at Emiquon), Angela Kent, (University of Illinois at Urbana-Champaign), Felipe Velho and Luzia C. Rodrigues, (Universidade Estadual de Maringá), Doyn Kellerhals, (Therkildsen Field Station at Emiquon) and Sara Paver, (University of Illinois at Urbana-Champaign/ NSF)

9:50  **RESPONSE OF ZOOPLANKTON COMMUNITIES TO RESTORATION OF A SHALLOW FLOODPLAIN LAKE AT EMIQUON PRESERVE, ILLINOIS**  
A. Maria Lemke, (The Nature Conservancy), Michael J. Lemke, (UIS Therkildsen Field Station at Emiquon) and John R. Beaver, (BSA Environmental Services, Inc.)

10:10  **EMIQUON FISH COMMUNITY RESPONSE TO RESTORATION, 2007-2013**  
T.D. VanMiddlesworth, (Illinois Natural History Survey – Illinois Biological Field Station) Nerissa N. McClelland, (Illinois Department of Natural Resources) and Andrew F. Casper, (Illinois Natural History Survey – Illinois Biological Field Station)

10:30  Break

Oral Session 2

10:45  **RESPONSE OF WATERBIRDS TO WETLAND RESTORATION IN THE ILLINOIS RIVER VALLEY: A CASE STUDY AT EMIQUON PRESERVE**  
Heath M. Hagy, Christopher S. Hine, Aaron P. Yetter, Michelle M. Horath, Randolph V. Smith, and Joshua D. Stafford, (Forbes Biological Station, Prairie Research Institute, University of Illinois, Havana, IL 62644)

11:05  **VEGETATION RESPONSE TO RESTORATION AND MANAGEMENT OF EMIQUON PRESERVE, 2007–2012**  
Andrew Casper, Heath Hagy, T.D. Van Middlesworth, Nerissa McClelland, Christopher Hine, Aaron Yetter, Michelle Horath, Randolph Smith and Joshua Stafford, (Illinois Natural History Survey)

11:25  **SHOULD WE EMBRACE OR REJECT FLORISTIC QUALITY INDICES AS WE WORK TO RESTORE TALLGRASS PRAIRIES?**  
Amy B. McEuen, Emily Staley, Christy Troxell-Thomas, Dylan McIntosh and Kyle Peecher, (University of Illinois Springfield)

11:45  Lunch
1. ECOLOGICAL ALTERNATIVE DYNAMIC REGIMES, REGIME SHIFTS, AND COMMUNITY CHANGE IN A NEWLY RESTORED FLOODPLAIN LAKE
Logan Benedict, (Biology Department, University of Illinois Springfield) and Michael Lemke, (Therkildsen Field Station at Emiquon, Lewistown, IL)

2. SUCCESS OF THE HACKING TECHNIQUE AS A MEANS TO ESTABLISH BREEDING POPULATIONS OF OSPREYS (PANDION HALLAETUS) AND RESULTS FROM THE FIRST YEAR OF AN OSPREY HACKING PROJECT IN ILLINOIS
April Simnor, and Tih-Fen Ting, (University of Illinois Springfield), Patrick McDonald and Joseph Kath, (Illinois Department of Natural Resources)

3. SECONDARY PRODUCTION OF BENTHIC MACROINVERTEBRATES IN A NEWLY RESTORED LAKE
Melissa Benedict, (Biology Department, University of Illinois Springfield, IL), Michael Lemke, (Therkildsen Field Station at Emiquon, Lewistown, IL), and A. Maria Lemke, (The Nature Conservancy, Illinois River Project Office at Emiquon, Lewistown, IL)

4. ASSESSING HISTORIC CHANGES IN GROWTH PATTERNS OF FRESHWATER MUSSELS IN THE ILLINOIS RIVER
Andrea K. Fritts, Mark W. Fritts, Justin R. Widloe, and Andy F. Casper
(Illinois Natural History Survey, Illinois River Biological Station, 704 N. Schrader Ave., Havana, IL)

5. AN ASSESSMENT OF AQUATIC INVASIVE PLANTS IN THE ILLINOIS RIVER: WATER HYACINTH SURVEILLANCE, MAPPING, PERSISTENCE, AND POTENTIAL SEED DISPERAL.
Jay A. VonBank and Andrew F. Casper, (Illinois Natural History Survey, Illinois River Biological Station), and Heath M. Hagy and Aaron P. Yetter, (Illinois Natural History Survey - Forbes Biological Station, Havana, IL)

6. THE STATUS AND TRENDS OF BLUEGILL IN THE LA GRANGE REACH OF THE ILLINOIS RIVER WITH COMPARISONS TO A RESTORED, DISCONNECTED FLOODPLAIN
Madeleine M. Young, Levi E. Solomon, Richard M. Pendleton, and Andrew F. Casper, (Illinois River Biological Station, Havana, IL 62644), T.D. VanMiddlesworth, (Illinois River Biological Station, Havana, IL 62644; Western Illinois University, Macomb, IL 61455)

7. THE FEEDING HABITS AND RELATIVE ABUNDANCES OF BOWFIN, SPOTTED GAR, AND LARGEMOUTH BASS: CAN NATIVE PISCIVORES CONTROL INVASIVE COMMON CARP?
T.D. VanMiddlesworth, (Illinois Natural History Survey), Greg Sass, (Wisconsin Department of Natural Resources), Timothy Spier, (Western Illinois University), Bradley Ray, (University Of Tennessee at Martin).

8. WATERBIRD RESPONSE TO A RESTORED ILLINOIS RIVER FLOODPLAIN WETLAND
Christopher S. Hine, Randolph V. Smith, Aaron P. Yetter, Michelle M. Horath, Joshua D. Stafford, and Heath M. Hagy, (Illinois Natural History Survey, Bellrose Waterfowl Research Center and Forbes Biological Station, Prairie Research Institute, University of Illinois, Havana, IL)

9. PEOPLE AT EMQUION: RECREATION AND EDUCATION
Jason Beverlin, (The Nature Conservancy), Mike Wiant, (Dickson Mounds Museum) and Mike Lemke, (UIS/Therkildsen Field Station at Emiquon)
Poster Session (continued) –

10. PROGRESSION OF THE FISH COMMUNITY AT THE NATURE CONSERVANCY’S MERWIN PRESERVE.
Levi E. Solomon, Richard M. Pendleton, and Andrew F. Casper. (Illinois River Biological Station, Illinois Natural History Survey, University of Illinois)

11. ECOLOGICAL FACTORS AFFECTING ANNUAL PRODUCTION OF LARGEMOUTH BASS AND BLUEGILL
Jason A. DeBoer, (Illinois River Biological Station) and Mark W. Fritts II, (Illinois River Biological Station)

12. DEVELOPMENT OF METHODS TO MEASURE ANTIBIOTIC RESISTANCE IN BACTERIA DURING ECOLOGICAL RESTORATION
Amanda Cummins, Kristin Davidson, Michael Lemke and Richard Pamenter, (University of Illinois Springfield)

13. THE USE OF NATURAL HISTORY COLLECTIONS TO INFORM BASELINE ECOLOGICAL CONDITIONS: CASE STUDIES FROM PALEONTOLOGY, ARCHAEOLOGY, AND HISTORICAL ZOOLOGY
Chris Widga, Meredith Mahoney, Eric Grimm, Alan Harn, Dennis Lawler, Terry Martin, Bonnie Styles, Robert Warren, Mike Wiant, (Illinois State Museum, Research and Collections Center) (Illinois State Museum, Dickson Mounds, Lewistown, IL)

14. PLANNING FOR DATA MANAGEMENT AT EMQUIQUON
Karen S. Baker
(University of Illinois at Urbana-Champaign, karensbaker@gmail.com)

15. ACOUSTIC BAT SURVEYS: CHAUTAUQUA NWR & SAND RIDGE STATE FOREST
Jacob G. Rand, (USFWS), Jessica N. Potter (Illinois College, Jacksonville IL)

Oral Session 3

Museum Auditorium

2:00 ECOLOGICAL RESPONSE OF FLOODPLAIN RESTORATION TO FLOODING DISTURBANCE: A COMPARISON OF THE EFFECTS OF HEAVY AND LIGHT FLOODING
Andrew F. Casper, (Illinois River Biological Station), Heath M. Hagy, (Forbes Biological Station), Michael Lemke, (Therkildsen Field Station at Emiquon), TD VanMiddlesworth (Illinois River Biological Station), Jeffery Walk and Douglas Blodgett (The Nature Conservancy), and Keenan Dungey (Therkildsen Field Station at Emiquon)

2:20 DEVELOPING A DATA MANAGEMENT STRATEGY: INFRASTRUCTURE FOR THE EMQUIQUON PARTNERSHIP
Karen Baker, (University of Illinois Urbana Champaign)

2:40 BUILDING EXHIBITS TO RESTORE ECOSYSTEM ATTITUDES
Michael Wiant, (Illinois State Museum - Dickson Mounds Museum)

3:00 Break
1st Floor Cafeteria

3:20 p.m. PANEL DISCUSSION – TAKING STOCK BEFORE THE CONNECTION Museum Auditorium
The panel will consist of each of the day’s speaker. After a brief summary of the science, data, and models revealed by the collective studies, issues, insights and questions will be discussed among panelists and the audience.

THE CONNECTION (After Panel Discussion: ~4:00 p.m.) Museum Auditorium
- Round table discussion – Implications of the connection, timing, grants for research, science that has not been done proposed; plans for science being done to be integrated, etc.

5:00 End