Emiquon Science 2015:
River Floodplain Restoration and Connection
19th February 2015
Illinois State Museum at Dickson Mounds, Lewistown, IL

NOTES: Abstracts are online at: http://uis.edu/emiquon
Dickson Mounds Museum Internet: Internet ID: dmm_guest Password: dmm_guest
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8:30  Doors open, registration, and coffee.  

9:00  Welcome - Dr. Michael Lemke (University of Illinois Springfield)  
Museum Auditorium

Oral Session 1: Scope and Perspective (author’s names in bold = presenter)  
Museum Auditorium
9:10  HISTORICAL OVERVIEW OF ILLINOIS RIVER VALLEY ECOSYSTEM SERVICE  
Michael Wiant (Dickson Mounds Museum)

9:30  MODELING IN ASSISTING REAL-TIME RESPONSE AND STRATEGIC PLANNING TO  
FLOODING RISK ALONG THE ILLINOIS RIVER  
Yanqing Lian (Illinois State Water Survey)

9:50  THE ROLE OF POLICY IN PROMOTING SUSTAINABLE FLOODPLAIN MANAGEMENT  
Silvia Secchi (Southern Illinois University Carbondale)

10:10  ILLINOIS RIVER BACKWATER SEDIMENT: PHYSICAL AND CHEMICAL PROPERTIES  
AND POTENTIAL USES  
John Marlin (Illinois Sustainable Technology Center)

10:30  Break  
1st Floor Cafeteria

Oral Session 2: Biotic Factors  
Museum Auditorium
10:45  LESSONS FROM THE SWAN LAKE HABITAT REHABILITATION AND ENHANCEMENT  
PROJECT  
John Chick (Illinois Natural History Survey & National Great Rivers Research and Education Center)

11:05  MEASURING AND MODELING FOOD WEB SUPPORT IN HIGHLY TRANSIENT  
ECOSYSTEMS: RIVER FLOODPLAINS  
Jim Lovvorn (Southern Illinois University Carbondale)

11:25  ZOOPLANKTON COMMUNITIES IN UNCONNECTED AND CONNECTED BACKWATER  
HABITATS ALONG THE ILLINOIS RIVER, ILLINOIS  
Maria Lemke (The Nature Conservancy)

11:45  Lunch  
Museum Activities Room
1. DATA MANAGEMENT: FILE SYSTEMS, DATABASES, AND METADATA
   Karen S. Baker¹, Christy A. Troxell-Thomas², and William G. Pooler³
   ¹Graduate School of Library and Information Science, University of Illinois Urbana-Champaign, ²Biology Department, University of Illinois Springfield

2. INFLUENCE OF CLIMATIC VARIABILITY ON MACROINVERTEBRATE COMMUNITY STRUCTURE IN THE CACHE RIVER FOLLOWING A LEGACY OF HYDROLOGIC ALTERATION
   Karen A. Baumann, Eric A. Scholl, Heidi M. Rantala, and Matt R. Whiles
   Department of Zoology and Center for Ecology, Southern Illinois University Carbondale

3. PLANKTON COMMUNITY CHANGES IN THE EARLY RESTORATION PHASE OF THOMPSON LAKE RESTORATION, EMQUON PRESERVE, IL
   Logan Benedict #¹, ², Mike Lemke², Felipe Velho³, Luzia Cleide Rodrigues⁴, Keenan Dungey³, Angela Kent³
   ¹UIS Therkildsen Field Station at Emiquon, ²University of Illinois Springfield, ³University of Maringa, Brazil, ⁴University of Illinois Champaign-Urbana

4. PEOPLE AT EMQUON: RECREATION AND EDUCATION
   Jason Beverlin and Cammy Smith
   The Nature Conservancy of Illinois

5. LEAF- THE NATURE CONSERVANCY’S LEADERS IN ENVIRONMENTAL ACTION FOR THE FUTURE PROGRAM IN ILLINOIS
   Jason Beverlin, Karen Tharp, and Kelly Butler
   The Nature Conservancy of Illinois

6. CONSTRUCTED RIFFLES AFFECT COMMUNITY STRUCTURE AND DIETS OF FISHES IN A MIDWESTERN RIVER
   Sophia Bonjour, Heidi M. Rantala, Micah G. Bennett, and Matt R. Whiles
   Department of Zoology and Center for Ecology, Southern Illinois University

7. STORAGE OF SOIL ORGANIC CARBON AND TOTAL NITROGEN IN RESTORED WETLANDS AND CROPLANDS OF ILLINOIS: A CHRONOSEQUENCE APPROACH
   Clayton D. Buss, Hua Chen, and Amy McEuen
   University of Illinois at Springfield

8. THE MASTER NATURALIST PROGRAM IN ILLINOIS
   Rhonda Ferree¹ and Jason Haupt²
   ¹University of Illinois Extension Educator in Horticulture, ²University of Illinois Extension Educator Energy & Environmental Stewardship

9. THE ENERGETIC CARRYING CAPACITY OF THE EMQUON PRESERVE FOR WATERFOWL
   Gregory R. Fretueg, Christopher Hine, Heath Hagy, Michelle Horath, Aaron Yetter, and Joshua Osborn
   Forbes Biological Station – Bellrose Waterfowl Research Center, Illinois Natural History Survey, University of Illinois at Urbana

10. INTERSEX CONDITION IN MALE LARGEMOUTH BASS FROM THE UPPER ILLINOIS RIVER WATERWAY
    Mark W. Fritts¹, Jason DeBoer¹, Andrea Fritts¹, Kristen Kellock², Robert Bringolf³, and Andrew Casper¹
    ¹Illinois River Biological Station, Illinois Natural History Survey, Prairie Research Institute, University of Illinois-Urbana Champaign, ²Michigan Department of Environmental Quality, ³Warnell School of Forestry and Natural Resources, University of Georgia
11. RESPONSE OF WATERBIRDS AND WETLAND VEGETATION RELATIVE TO KEY ECOLOGICAL ATTRIBUTES AT EMIQUON PRESERVE, 2007-2013
Christopher S. Hine, Heath Hagy, Aaron Yetter, Michelle Horath, and Joshua Osborn
Forbes Biological Station – Bellrose Waterfowl Research Center, Illinois Natural History Survey, University of Illinois at Urbana

12. EMIQUON PRESERVE PLAN OF 2015: WORK PLAN AND ACTIVITIES
Tharran Hobson and Sally McClure
The Nature Conservancy of Illinois

13. IMPLEMENTATION OF A MONARCH WAYSTATION AT EMIQUON
Kaitlin M. Hollenbeck and Tih-Fen Ting
Department of Environmental Studies, University of Illinois Springfield

14. BREEDING ECOLOGY OF WATERBIRDS IN A RESTORED FLOODPLAIN OF THE ILLINIOS RIVER
Devin Jen
Forbes Biological Station – Bellrose Waterfowl Research Center, Illinois Natural History Survey, University of Illinois at Urbana

15. INFLUENCE OF CANOPY LIGHT PENETRATION ON PINK TURTLEHEAD (CHELONE OBLIQUA) ABUNDANCE IN A FLOODPLAIN FOREST
Anthony Kloppenborg¹ and Dr. Susan P. Romano¹,²
¹Department of Biological Sciences, Western Illinois University-Quad Cities, ²Geography Department, Western Illinois University-Quad Cities

16. FACTORS AFFECTING THE GROWTH OF LARGEMOUTH BASS IN THE UPPER ILLINOIS RIVER
Cassidy Miles, Jason DeBoer, and Mark Fritts
Illinois River Biological Station, Illinois Natural History Survey, Prairie Research Institute, University of Illinois at Urbana

17. LONG-TERM CHANGES IN THE FISH COMMUNITY STRUCTURE IN RELATION TO ASIAN CARP ESTABLISHMENT
Richard M. Pendleton, Levi E. Solomon, and Andrew F. Casper
Illinois River Biological Station, Illinois Natural History Survey, Prairie Research Institute, University of Illinois at Urbana

18. INVASIVE SPECIES PHASE ONE RISK ANALYSIS
William Pooler & William Herr
University of Southern Maine department of Geography, Anthropology & University of Illinois Graduate school of Library and Information Science

19. STATUS OF RESEARCH DATA POLICIES FROM FUNDING AGENCIES: STATEMENTS ON ACCESS, ARCHIVES, AND SHARING
William Pooler & Dr Heidi Imker
University of Illinois Graduate school of Library and Information Science & Research Data Service, University of Illinois at Urbana

20. STRATEGIC MANAGEMENT OF PRIORITY INVASIVE SPECIES: COORDINATED CONTROL THROUGH THE SOUTHERN ILLINOIS INVASIVE SPECIES STRIKE TEAM
Nicholas Seaton, Caleb Grantham, Tharran Hobson
The Nature Conservancy in Illinois
21. RESULTS FROM THE FIRST TWO YEARS OF AN OSPREY RECOVERY PROJECT IN ILLINOIS
April Simnor¹, Tih-Fen Ting¹, and Patrick McDonald²
¹Department of Environmental Studies, University of Illinois at Springfield, ²Illinois Department of Natural Resources, Springfield

Todd D. VanMiddlesworth, and Andrew F. Casper
The Illinois Natural History Survey’s Illinois River Biological Station

Oral Session 3: Ecosystem Service and Land Use
2:00 MAINTENANCE OF WILLOW SHRUB AND SCATTERED CANOPY BY BEAVER HERBIVORY IN A FLOODPLAIN FOREST NEAR DAVENPORT, IOWA
Victoria Green (Western Illinois University)

2:20 ASSESSING THE EFFECTS OF LAND USE CHANGE ON MICROBIAL COMMUNITIES AND THEIR ACTIVITIES
Angela Kent (University of Illinois Champaign-Urbana)

2:40 ECOLOGICAL RESPONSES TO RESTORATION EFFORTS IN THE CACHE RIVER
Matt Whiles (Southern Illinois University Carbondale)

3:00 Break

3:20 p.m. PANEL DISCUSSION – ECOSYSTEM SERVICES OF RIVER FLOODPLAINS
Moderator: Dr. Andy Casper (Illinois River Biological Station)
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.

~4:00 p.m. Partnership and Management of the Emiquon Complex
NEAR-TERM PROJECTS TO ENHANCE HABITAT FOR MIGRATORY BIRDS AND NATIVE WILDLIFE AND PROVIDE ADDITIONAL PUBLIC USE OPPORTUNITIES
Bob Barry (U.S. Fish and Wildlife Service)

CHALLENGES, OPPORTUNITIES AND CURRENT PLANS FOR MANAGING THE NATURE CONSERVANCY’S EMIQUON PRESERVE
Doug Blodgett (The Nature Conservancy of Illinois)

5:00 End

After conference event: Tour of Emiquon Preserve Exhibit Wine and Cheese provided for guests – Host: Dr. Michael Wiant Dickson Mounds Museum