

# Upper Midwest Stream Restoration Symposium

## February 21-23, 2010

### Final Program

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#### Sunday, February 21

- 3:00-6:00 **Check in**  
6:00 **Dinner, Welcome**  
6:30 **Invited Speaker: Prof. Peter Wilcock, Johns Hopkins University**  
*Stream Restoration: Why do we do this and is it worth it?*  
8:00 **Social Hour**
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#### Monday, February 22

- 7:30-8:15 **Breakfast**  
8:15-9:15 **Invited Speaker: Dr. Luther Aadland, Minnesota Department of Natural Resources**  
*Defining stream restoration: what does it mean?*  
9:15-9:30 **Break**

#### Session 1: Sediment Management in Rivers and Streams (Moderator: Marty Melchior)

- 9:30-10:00 **Karen Gran** **University of Minnesota, Duluth**  
*Watershed-Scale sediment budget in the LeSueur River, Minnesota, for turbidity management and future rehabilitation efforts*  
10:00-10:30 **Stephanie Day** **National Center for Earth-Surface Dynamics**  
*Bluff erosion rates in Processes on the LeSueur River in Southern Minnesota*  
10:30-11:00 **Tom Mac Donald** **Barr Engineering**  
*Habitat Improvement on Valley Creek*  
11:00-11:30 **Benjamin Lee** **University of Wisconsin-Madison**  
*Fine-grained sedimentation analysis and channel design for stabilization of the lower Platte River, Wisconsin*  
11:30-11:45 **Break**

#### Session 2: Poster Session I

- 11:30-12:30 **Poster Session**  
12:30-1:45 **Lunch**  
**Invited Speaker: Jeff Hastings, Trout Unlimited**  
*Accelerating toward maximum capacity*

#### Session 3: Large River Restoration (Moderator: Kent Johnson)

- 2:00-2:30 **Scott Jutila** **US Army Corps of Engineers**  
*Periodic pool-scale drawdowns for habitat management in the Mississippi River*  
2:30-3:00 **Brock Freyer** **University of North Carolina at Charlotte**  
*Effects of river management and sediment supply on island evolution in Pool 6 of the Upper Mississippi River*  
3:00-3:30 **Christian Lenhart** **UMN, Dept. of Bioproducts and Biosystems Engineering**  
*Assessing the feasibility of rehabilitation and management actions on the Mississippi River within the Twin Cities, Minnesota*  
3:30-3:45 **Break**

#### Session 4: Stream and River Structures (Moderator: Tom MacDonald)

- 3:45-4:15 **Anne Lightbody** **University of New Hampshire**  
*Improving design guidelines for rock vanes and other flow training structures*  
4:15-4:45 **Martin Melchior** **Interfluve**  
*Dam removal planning for the next decade*  
4:45-5:15 **Jeff Janvrin** **Wisconsin Department of Natural Resources**  
*Island Construction – Rebuilding Natural Levees to Restore Connectivity in the Northern Reaches of the Upper Mississippi River*  
6:30 **Dinner**  
7:00 **Invited Speaker: Michael Osterholm, University of Minnesota**  
*A Perspective on the Future of Driftless Area Coldwater Stream Restoration*

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**Tuesday, February 23**

7:30-8:15 **Breakfast**

8:15-9:15 **Charlie Peters, USGS Wisconsin Water Science Center**  
*The Great Lakes Restoration Initiative*

9:15-9:30 **Break**

**Session 5: Habitat/Organism-Focused Restoration (Moderator: Bob Hansis)**

9:30-10:00 **Matthew Diebel      The Cadmus Group, Inc.**  
*Prioritizing road crossing improvement to restore stream connectivity for stream-resident fish*

10:00-10:30 **David Vetrano      Wisconsin Department of Natural Resources**  
*Aquatic Riparian Corridor (ARC) Habitat Project*

10:30-11:00 **Michele Wheeler      Bad River Watershed Association**  
*Culvert restoration project implementation and monitoring*

11:00-11:15 **Break**

**Session 6: Poster Session II**

11:00-12:00 **Poster Session**

12:00-1:15 **Lunch**

**Invited Speaker: Sue Niezgodka, Rose-Hulman Institute of Technology**

*Stream Restoration Education and Professional Development: Working Toward a Consensus*

**Session 7: Stream Restoration Monitoring (Moderator: Jeff Hastings)**

1:30-2:00 **Kent Johnson      Metropolitan Council Environmental Services**  
*The Role of Monitoring in Stream Restoration*

2:00-2:30 **Faith Fitzpatrick      U.S. Geological Survey**  
*Changing Perspectives of Monitoring Stream Restoration Success*

2:30-3:00 **Andy Selle      Interfluve**  
*The Cost of Stream Projects, How to Do More With Less*

3:00-3:15 **Break**

**Session 8: Channel-Floodplain Connection (Moderator: Andy Selle)**

3:15-3:45 **Meredith Thomsen      University of Wisconsin - La Crosse**  
**Kurt Brownell      USACE**  
*Control of reed canary grass (*Phalaris arundinacea*) improves floodplain forest tree seedling establishment*

3:45-4:15 **Robert Hansis      WI Dept of Natural Resources**  
*Wetlands Exposed--Floodplain Restoration Along the East Branch of the Pecatonica River, Wisconsin*

4:15-4:45 **Eric Booth      University of Wisconsin - Madison**  
*Monitoring and modeling the effects of floodplain restoration on the soil water regime and vegetation composition*

4:45-5:15 **Suzanne Hoehne      Biohabitats, Inc**  
*Integrating Stream and Wetland Restoration through an Innovative Approach*

6:30 **Dinner, Symposium Closing**

7:00 **Invited Speaker: Prof. Jim Knox, Univ. of Wisconsin, Madison**

*Historical changes in Erosion and Sedimentation along Driftless Area Channels and Floodplains*