

## Save the Dates

# University at Buffalo's Workshop Series in Stream Ecosystem Restoration 2012 Draft Schedule (Updated!)\*

### **Week 1: Stream Physical Processes**

**June 4-6, 2012**

Stream Physical Processes Core course (Dr. Sean Bennett, June 4-5)

- Fluvial geomorphology, channel processes, hydraulics, and sediment transport

Two-day elective (Dr. Andrew Simon, June 6-7): Bank stability analysis, modeling, and case studies

### **Week 2: Stream Restoration Design**

**June 11-14, 2012**

Stream Restoration Design Core course (June 11-13)

- Goals and objectives, decision making, alternatives analysis (Dr. Alan Rabideau)
- Hydrologic/hydraulic modeling, design, construction support (John Fazzolari and Preetam Kuchikulla)
- Bioengineering, in-stream structure design techniques, case studies (David Derrick)

One-day elective (Dave Derrick, June 14): How to read a stream, local case studies

### **Week 3: Stream Restoration Management and Monitoring**

**June 18-21, 2012**

Stream Restoration Management Core course (Dr. Kelly Frothingham, June 18-19):

- Water resources policy, project management, communication, stakeholder participation

Stream Restoration Assessment & Monitoring Core course (Dr. Kelly Frothingham, June 20-21):

- Stream assessment methods, watershed analysis, natural and human-induced disturbances

One-day elective (Dr. Richard Fisher, July 22): Riparian ecosystem ecology

### **Week 4: Stream Flow and Ground Water Monitoring**

**June 25-28, 2012**

Two-day elective (Dr. Chris Lowry and Deb Naybor, June 25): Quantifying stream flow

Two-day elective (Dr. Chris Lowry, June 27-28): Ground water and stream interactions

### **Week 5: Stream Ecological Processes**

**July 9-13, 2012**

Stream Ecological Processes Core course (Dr. Chris Pennuto, July 9-10):

- Introduction to stream ecology, habitat structure and function

One-day elective (Dr. Chris Pennuto, July 11): Aquatic macroinvertebrate sampling and analysis

One-day elective (Ray Li, July 12): Fish population response to stream restoration

One-day elective (Paul Fuhrmann and Helen Domske, July 13): Aquatic and terrestrial invasive species

**New!** A Certificate in Stream Restoration will be awarded to those who complete the five Core courses and five days of electives (pending final approval).

*Workshops are available for academic (graduate), continuing education, or engineering professional credit and participants may register for any combination. Tentative rates for professional attendees: \$600 for Core courses and Two-day electives; \$400 for One-day electives. For academic credit rates, please contact us.*

**Instructors to include stream science and restoration researchers and practitioners from University at Buffalo, Buffalo State College, Ecology & Environment, Inc., U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, NY Sea Grant, River Research and Design, Inc. and more!**

\*Subject to change upon finalization of the schedule and instructors.