Succeeding with a Dam Removal Project

November 5–7, 2007
East Lansing, Michigan

- Identify key decision points
- Implement practical, efficient dam removal approaches
- Know how to maximize environmental endpoints
- Understand engineering, sediment management and water quality issues

By invitation of and in cooperation with:
American Rivers
Michigan Water Environment Association
Michigan Chapter of the American Fisheries Society
Michigan Association of Conservation Districts
Michigan Department of Environmental Quality
Michigan Council of Trout Unlimited
Succeeding with a Dam Removal Project
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Focus on All Aspects of Dam Removal
This practical course will evaluate all aspects of dam removal, including
- the key decision points
- how to remove a dam efficiently and maximize environmental endpoints
- engineering and management issues associated with a range of dam types
- sediment management and water quality issues related to dam removal
- practical approaches to remove both large and small dams
You’ll also have the opportunity to consider dam removal case studies and lessons learned from dam removal projects.
Your instructors are experts working in this cutting-edge area. They will share with you key insights and approaches gained from years of experience.

Why This Course? Over 2,500 Dams in Michigan!
Aging dams are becoming a critical engineering issue. The American Society of Engineers has graded dams a “D” in its report card on the country's infrastructure. Add in the relicensing issues, the Endangered Species Act, sediment management issues, concerns from the public, property owners and environmentalists, lack of funds, declining safety ratings, and expensive repairs, and you have a complicated design project.
Dam removal issues are particularly timely in areas where attention on restoring fisheries habitat and rivers has brought increasing attention to dams, their useful economic life, and their impacts on water quality and ecological sustainability.

Course Objectives
Professionals working on dams will gain comprehensive information on dam removal and associated issues. The course will emphasize
- technical tools
- design and construction approaches
- environmental benefits, issues and risks
- sediment management
- social perspectives, and more!

Intended Audience
This course will benefit
- design engineers
- biologists
- regulatory review professionals
- dam owners
- contracting service personnel
- contractors
- public sector professionals
- planners

Bring Your Team
Gain maximum value for your organization by attending as a team. If you enroll three or more people, you will receive a fee discount (see enrollment form).

Outstanding Instructors
Your instructors are highly accomplished educators, consultants, regulators and managers with extensive field experience, broad knowledge of dam removal issues, and demonstrated expertise in instructional settings. Plan to take advantage of their range of knowledge by participating in our class discussions and case studies and by visiting with them during refreshment breaks, lunches and after class.

Special Course Materials
In addition to the comprehensive course notebook, you will receive a digital copy of American Rivers’ “Dam Removal Toolkit.”

Earn Continuing Education Credits
By participating in this course, you will earn 2.0 Continuing Education Units (CEU) or 20 Professional Development Hours (PDH).

Course Planning Committee
Patrick Eagan
University of Wisconsin–Madison
Joe Rathbun
Michigan Department of Environmental Quality
Laura Wildman
American Rivers

For Related Course Descriptions
http://epd.engr.wisc.edu/catalogs/civil.lasso

Enroll online today! http://epd.engr.wisc.edu/webJ460
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Course Outline

Monday, November 5

7:30 Registration
The Kellogg Hotel and Conference Center
Michigan State University
55 South Harrison Road
East Lansing, Michigan
8:00 Welcome and Introduction
Patrick Eagan PhD, PE
Program Director/Professor
Department of Engineering Professional Development
University of Wisconsin–Madison
8:20 Dam Removal Project Overview
Brian Graber
Associate Director of Restoring Riverways Program
American Rivers
Northampton, Massachusetts
9:20 Permitting for Dam Removal
What’s working and what the challenges are
Byron Lane
Chief, Dam Safety Program
Michigan Department of Environmental Quality
Lansing, Michigan
10:40 Break
11:00 FERC and Dam Removal
License Surrender, Decommissioning and Removal
Sharon Hanshue
Supervisor for Habitat Management
Michigan Department of Natural Resources
Lansing, Michigan
12:00 Lunch

Tuesday, November 6

7:30 Coffee and Conversation
8:00 Sediment Investigation and Management
Laura Wildman
9:30 Break
9:50 Sediment Testing and Assessment for Dam Removal Projects
Joe Rathbun
Water Quality Specialist
Michigan Department of Environmental Quality
Lansing, Michigan
11:15 Sediment Case Study
Jim MacBroom
Vice President
Milone and MacBroom Inc.
Cheshire, Connecticut
12:00 Lunch
1:00 The Ecological Effects of Dam Removal: Part One
Byron Lane
American Rivers
Northampton, Massachusetts
1:30 The Ecological Effects of Dam Removal: Part Two
Joe Rathbun
Michigan Department of Environmental Quality
Lansing, Michigan
2:45 Break
3:00 Discussion: Implications for Decision Making
3:30 Case Study: Dimondale Dam Removal
Ralph Reznick
Senior Engineer
Michigan Department of Environmental Quality
Lansing, Michigan
4:30 Adjournment

Wednesday, November 7

7:30 Coffee and Conversation
8:00 Economics and Liability Issues of Dam Removal
Sample RFPs
Scopes of Work
Brian Graber
9:00 Engineering Removal Techniques for Small Dams
Laura Wildman
10:00 Break
10:15 Channel Formation and Dam Removal
Jim MacBroom
11:45 Applied Habitat Management
Where does it make sense?
Brian Graber
12:00 Final Adjournment
Lunch on your own

On-site Courses Save Time & Money!

Engineering Professional Development can offer many of our courses:
• At a location of your choice in North America
• At your convenience
• At reduced per-person cost
• Tailored to your needs

To inquire about courses that we can bring to your site, including optimal group size and costs, or to request an on-site course, call 800-462-0876 and ask for Corporate Education Director Carl Vieth (vieth@wisc.edu or 608-263-7424 direct). Or see http://epd.engr.wisc.edu/onsite
Four Easy Ways to Enroll

Need To Know More?
Call toll free 800-462-0876 and ask for
Program Director:
Patrick Eagan PhD, PE
eagan@engr.wisc.edu
Program Associate:
Diane Lange
Or e-mail custserv@epd.engr.wisc.edu

General Information
Fee Covers Course materials and text, break refreshments, lunches and certificate. Course materials are distributed only to course participants. We do not publish proceedings.
Cancellation If you cannot attend, please notify us by October 29, and we will refund your fee. Cancellations received after that date and no-shows are subject to a $150 administrative fee. You may enroll a substitute at any time before the course starts.
Location The Kellogg Hotel and Conference Center, 55 South Harrison Road, East Lansing, Michigan. If you must be contacted during the course, phone messages may be left for you at 517-432-4000.
Accommodations A block of sleeping rooms for enrollees has been reserved at The Kellogg Hotel and Conference Center at a rate of $65 single/double. To make reservations call 517-432-4000 before Friday, October 5, and identify yourself as an attendee with the group: 2007 Dam Removal Short Course.

Additional Enrollees
Name __________________________ Title __________________________
Address __________________________
City/State/Zip __________________________ Phone (_______) ______________ Fax (_______)
E-mail __________________________

Billing Information
☐ Bill my company ☐ P.O. or check enclosed (Payable in U.S. funds to UW–Madison)

Cardholder’s Name ____________________________________________
Card No. ____________________________________________ Expires _________

Important—please enter the 3-digit UW# Code from the mailing label.

Please check the box if you are a person with a disability and desire special accommodations. A customer service representative will contact you. Requests will be kept confidential.

Future Courses
For details call toll free 800-462-0876 or check our Web site at http://epd.engr.wisc.edu/catalogs/civil.lasso
Storm Water Detention Basin Design
September 24–25, 2007, Madison, WI Course #J496
Pumping Equipment and Systems: Selecting, Operating, Maintaining and Troubleshooting
October 1–2, 2007, Madison, WI Course #J659
Legal Aspects of Engineering, Public Works and Construction
October 29–30, 2007, Madison, WI Course #J708
Municipal Engineering Fundamentals for Non-Engineers
December 12–13, 2007, Las Vegas, NV Course #J495
Watershed Modeling Using the New HEC-HMS
April 30–May 2, 2008, Madison, WI Course #J490
Using HEC-RAS to Compute Water Surface Profiles for Floodplains, Bridge and Culvert Hydraulics
May 5–7, 2008, Madison, WI Course #J489

Need To Know More?
Please enroll me in Succeeding with a Dam Removal Project Course #J460 November 5–7, 2007 in East Lansing, Michigan Fee: $895
I cannot attend at this time. Please send me brochures on future courses.