

Practical course focusing on all aspects of dam removal...

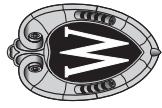
Succeeding with a Dam Removal Project

**November 5-7, 2007
East Lansing, Michigan**

Benefits for:

- ✓ **Design engineers and planners**
- ✓ **Biologists**
- ✓ **Regulatory review professionals**
- ✓ **Dam owners**
- ✓ **Contractors/contracting service personnel**
- ✓ **Public sector professionals**

Printed on recycled paper.



THE UNIVERSITY
of
WISCONSIN
MADISON

Department of Engineering Professional Development
432 North Lake Street Madison, Wisconsin 53706



THE UNIVERSITY
of
WISCONSIN
MADISON

COLLEGE OF ENGINEERING ■ DEPARTMENT OF ENGINEERING PROFESSIONAL DEVELOPMENT

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

November 5–7, 2007 in East Lansing, Michigan

Save time and money!
Inquire about our on-site courses.
Call 800-462-0876 today!

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>

Succeeding with a Dam Removal Project

November 5–7, 2007 in East Lansing, Michigan

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

1:00 Social Components and Funding Sources for Dam Removal: Statewide and Project-Level Approaches

Mark Coscarelli
Senior Consultant for Great Lakes
and Environmental Policy
Public Sector Consultants Inc.
Lansing, Michigan

2:30 Break

2:45 Wetland Impacts and Dam Removal

Mark Carabetta
Conservation Science Manager
Ontario Nature
Toronto, Ontario

3:45 Wetlands and Dams Panel

Mark Carabetta
Byron Lane
Laura Wildman
Director of River Science
American Rivers
Glastonbury, Connecticut

5:15 Adjournment

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

- Toxicology
- Impoundment ecology

Joe Rathbun

1:30 The Ecological Effects of Dam Removal: Part Two

- Changes in stream morphology
- Changes in fish communities

Bryan Burroughs
Executive Director
Michigan Council of Trout Unlimited
Dewitt, 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@enr.wisc.edu

Program Associate:

Diane Lange

Or e-mail **custserv@epd.enr.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.

Future Courses

For details call toll free 800-462-0876 or check our Web site at <http://epd.enr.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



Phone:
800-462-0876 or
608-262-1299 (TDD 265-2370)



Internet:
<http://epd.enr.wisc.edu/webJ460>

Mail to:

Engineering Registration, The Pyle Center
702 Langdon Street, Dept. 107
Madison, Wisconsin 53706



Fax:

800-442-4214 or 608-265-3448



Course Information

- 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.

Personal Information (Please print clearly.)

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Phone (____) _____ Fax (____) _____

E-mail _____

Additional Enrollees

Name _____

Title _____

E-mail _____

Name _____

Title _____

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 _____

UW#

**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.