

# IMPROVING STREAM CROSSINGS

## FLOOD-RESILIENT, FISH-FRIENDLY



## Baystate Roads Program

Sharing the Best in Transportation Technology

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Baystate Roads Program  
UMass Transportation Center  
214 Marston Hall  
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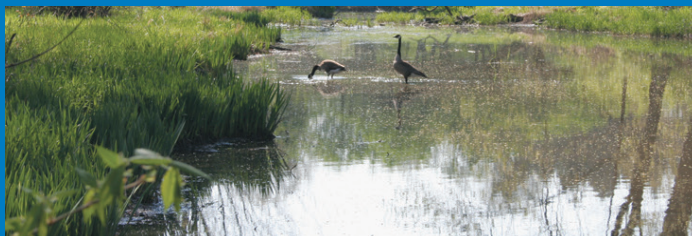
Mail to: Baystate Roads Program,  
214 Marston Hall, 130 Natural Resources Rd., Amherst, MA 01003

### Road - Smart Stream Crossings

Dates Requested: \_\_\_\_\_  
Location (city/town): \_\_\_\_\_  
REGISTRATION FEE  
\$20.00 municipal/\$20.00 private sector.  
Light breakfast, lunch and course  
materials are included.

Make checks payable to  
**The University of Massachusetts**

Cancellations must be received 4 days  
prior to the workshop or you  
will be invoiced.



### Course Description

This workshop will focus on making stream crossings safer and more resilient in the face of future storms. Many crossings fail, in some cases repeatedly, due to their inability to pass high flows and the materials stirred up by the river at flood stage. These crossings require ongoing maintenance and repairs when they become plugged with debris. Crossings designed with rivers in mind – and meeting the Massachusetts Stream Crossing Standards – can safely pass huge volumes of water, sediment, and debris stirred up by high flows, and maintain safe passage for emergency personnel and residents. Stream Crossing Standards alone do not satisfy the need for proper engineering and design.

When sizing a crossing for high flows, communities must account for potential effects of climate change on future storm characteristics and changes in stream hydrology due to development. Expert presenters will provide best practices and case studies on replacing road-stream crossings – covering site assessment, engineering standards, permitting, funding and installation.

### Who Should Attend

These workshops are recommended for municipal public works supervisors and employees, town and city officials, planners, engineers and private consultants.

### Speakers

**Julia Blatt**, MA Rivers Alliance  
**Alison Bowden**, The Nature Conservancy  
**Artie McCollum**, US Fish and Wildlife Service  
**Lealdon Langley** (Mass DEP), **Scott Jackson** (UMass),  
**or Dan Rukakoski** (Tighe and Bond)  
**Mike Petrin** of Tighe and Bond **or Dave Nyman** of CEI  
**Amy Singler** (American Rivers) **or Carrie Banks** (Ma  
Division of Ecological Restoration)  
**Scott McCloud** (MEMA) **or Rich Zingarelli** (FEMA  
Hazard Mitigation)

### Why Register Online?

- Instantly confirm registration!
- View how many seats are left!
- View all courses currently accepting registrations!
- View workshop flyers as well as Newsletters and Tech Notes!
- Save paper and time!

## Improving Stream Crossings Flood-Resilient, Fish-Friendly

**March 13, 2013**

Westfield State University  
Horace Mann Center, Garden Room (Downstairs)  
577 Western Ave., Westfield, MA 01086

*Free parking will be available at the Horace Mann Center*

**March 26, 2013**

Olver Transit Center\*  
12 Olive Street, Greenfield

**June 17, 2013**

Berkshire Community College,  
Koussevitzky Arts Center, Room K111  
1350 West Street, Pittsfield

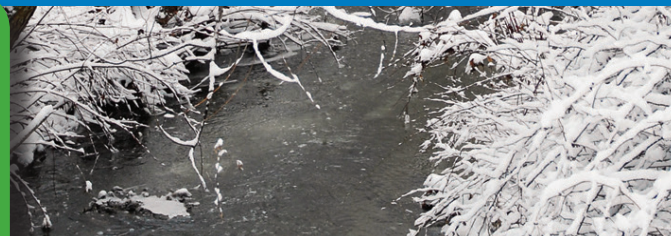
*Free parking*

*\*LIMITED guest parking is available in the lot above the Transit Center.*

*"Pay to Park" lots are available across the street and at the intersection of Hope and Olive Streets. Meeting attendees may not use the short term Transit Center parking, except as needed by handicapped visitors.*

The workshops are presented by Baystate Roads, in collaboration with the Massachusetts Rivers Alliance, Massachusetts Department of Transportation, Massachusetts Division of Ecological Restoration, US Fish and Wildlife Service, Berkshire Regional Planning Commission, Franklin Regional Council of Governments, American Rivers, Berkshire Environmental Action Team, The Nature Conservancy, The Connecticut River Watershed Council, Housatonic Valley Association, UMass Amherst, and Tighe and Bond Engineers.

Funding is provided by Massachusetts Environmental Trust and Westfield River Wild and Scenic Advisory Committee.



### Agenda

8:30 am	Registration/Breakfast
9:00	Welcome
9:30	The Value of Road-Smart Stream Crossings
10:15	Breakouts: - Group 1: Flume Table Demo - Group 2: Stream Crossing Standards Permitting
10:00	Break
10:10	Breakouts: - Group 2: Flume Table Demo - Group 1: Stream Crossing Standards Permitting
11:00	Engineering Standards & Guidance
12:00	Lunch
12:45	Case Studies/Storm Response
1:30	Break
1:45	Technical & Funding Resources
2:30	Discussion & Wrap Up
3:00	Adjourn

This Course counts towards  
1.0 Roads Scholar Credit/0.5 CEUs  
5.0 AICP Credits



This Baystate Roads Program (LTAP) workshop is a cooperative effort of the Federal Highway Administration, Massachusetts Executive Office of Transportation and the University of Massachusetts Transportation Center.