

CASFM TECHNICAL TRAINING ANNOUNCEMENT

STREAM STABILIZATION WORKSHOP

The Colorado Association of Stormwater and Floodplain Managers (CASFM) is pleased to present a 2-day technical workshop on the latest analysis and design techniques for stream stabilization, specifically focused on the new national riprap design criteria and environmentally sensitive measures.

Date & Time: Wednesday and Thursday, January 17 and 18, 2007, 8:00 a.m. – 4:30 p.m.

Location: The Southwest Weld County Services Complex
4209 Weld County Road 24½ – (Longmont/Del Camino/Highway 119 exit off I-25, Exit 240); (720) 652-4200
See <http://www.co.weld.co.us/southcounty/index.html> for directions
Use of this facility is provided courtesy of Weld County Dept. of Public Works

If this workshop is favorably received, CASFM intends to hold it again in the Colorado Springs/Pueblo area and in Grand Junction later in 2007.

Instructors: See attached course description

Workshop Description: See attached course description

Registration: Registration for the workshop is limited to the first 40 people. The registration form and payment are due on or before January 5, 2007, in order to reserve your place. Substitutions will be accepted as there will be no refunds of the registration fee given after January 5.

Cost: \$325/person for CASFM members
\$355/person for non-CASFM members (registration fee includes \$30 individual membership)
Fee includes instruction, course materials, continental breakfast, afternoon snacks and is subsidized in part by CASFM

Workshop Coordinator: Chris Carlson, (970) 962-2774, carlsc@ci.loveland.co.us

REGISTRATION FORM – CASFM STREAM STABILIZATION WORKSHOP

(Please type or print clearly)

Name _____

Company _____

Address _____

Phone _____ Fax _____

Email Address _____

If registration is full you will be notified by email and added to a waiting list.

Please make checks payable to CASFM

Mail Registration and Payment To: Chris Carlson
City of Loveland
Public Works – Stormwater
410 East 5th Street
Loveland, CO 80537

CASFM STREAM STABILIZATION WORKSHOP

PURPOSE: To provide technical training in order to improve engineers' abilities to design both hard and soft stabilization measures using an environmentally sensitive approach.

DAY 1: RIPRAP DESIGN CRITERIA

Instructors: Dr. Pete Legasse and Paul Clopper – Ayres Associates

Material Content: Introduction to the latest design guidelines, material specifications, construction specifications, and construction quality control guidelines for riprap used in streams, riverbanks, bridges, and at other locations requiring scour countermeasures. This will include both non-grouted, grouted, and hybrid riprap designs. Riprap design equations, application-specific design guidelines, filter design, failure mechanisms, construction specifications, quality control, and inspection guidelines will all be covered. Throughout the session participants will have “hands-on” opportunities to work through example problems. Course material will be from the recently completed National Cooperative Highway Research Program (NCHRP) 24-23 Project, “Riprap Design Criteria, Specifications, and Quality Control”, whose final report was recently approved by the project’s NCHRP panel and is scheduled for publication in November 2006. The project is intended to consolidate all riprap design guidelines into common criteria that can be implemented nationwide. This day’s material will transition into the environmentally sensitive applications presented on day two.

DAY 2: ENVIRONMENTALLY SENSITIVE CHANNEL AND BANK PROTECTION MEASURES

Instructor: John McCullah – Salix Applied Earthcare

Material Content: Introduction to the latest design guidelines and specifications for implementing environmentally sensitive channel and bank protection measures. The measures discussed in this workshop not only reduce bank erosion or channel incision, but also provide environmental benefits such as enhancing or protecting aquatic or terrestrial habitats and providing aesthetic value. They may be classified as either river training, bank protection, riparian and stream improvements, or slope stabilization measures. The course will feature case studies of actual design guidelines and techniques and will explain design criteria and installation in detail. Much of the course material will come from the NCHRP 24-19 Project, “Environmentally Sensitive Channel- and Bank-Protection Measures” (2005, Salix Applied Earthcare, John McCullah, Donald Gray) and include an introduction to the Greenbank decision support system. The Greenbank system is an interactive software program that includes recommended design guidelines for environmentally sensitive measures and a selection system for helping to determine the most appropriate channel- and bank-protection measure for given conditions.

Participants of the workshop will be provided a hard copy of the two NCHRP reports, “Riprap Design Criteria, Specifications, and Quality Control” and “Environmentally Sensitive Channel- and Bank-Protection Measures”, which includes the Greenbank software.