

## BIOENGINEERING and BIOTECHNICAL STREAMBANK STABILIZATION TECHNIQUES WORKSHOP: SEPTEMBER 26 TO 28, 2006



**Classroom Training**  
September 26, 2006  
Hinton Training Centre  
1176 Switzer Drive  
Hinton, Alberta

**Field Training**  
September 27 and 28, 2006  
Pembina River  
Hwy 734:22  
South of Robb, Alberta

**Instructor: John McCullah,**  
**Salix Applied Earthcare**

This 3-day course will provide both theoretical and applied training in bioengineering and biotechnical stabilization techniques with a strong emphasis on erosion and sediment control. The material presented will be of use to regulators, designers, project managers, and contractors. The project from last year's course (also on the Pembina River) was awarded the 2006 Minister's Overall Award of Excellence for Transportation Innovation!

**Classroom Training** topics will include:

- Benefits and techniques of bioengineering and biotechnical slope and streambank stabilization
- Harvesting and handling of woody cuttings
- Re-directive and resistive techniques: rock vanes, longitudinal peaked stone toe protection, vegetated riprap, rootwad revetments
- Biotechnical techniques: modified brush layering, live siltation, willow wattles, live staking
- Erosion control techniques: compost berms and blankets, seeding, silt fencing
- Selection and implementation of techniques

Two days of hands-on **Field Training** will be given at the site located on Hwy 734:22 adjacent to the Pembina River south of Robb, Alberta. Travel will be by passenger *coach* bus. Participants will install willow wattles, live stakes and modified brush layering. Demonstrations provided at the site during the training will include rock vane construction, rootwad installation, blown compost berm and blanket placement, and in-stream monitoring procedures. There will also be an opportunity to see the results of the work completed during the 2005 course.

**John McCullah, Salix Applied Earthcare** (Redding, California), is a recognized expert in erosion control, watershed restoration, and technical training. He has contributed significantly in the development of the Alberta Infrastructure and Transportation Best Management Practices for erosion control. John has led many hands-on training courses across North America and has developed the *Dirt Time* training video series.

**For more information call: Fred Cheng @780-415-1039** (Alberta Infrastructure and Transportation)  
**Ken Froese @780-438-1460** (Thurber Engineering Ltd.)



# BIOENGINEERING and BIOTECHNICAL STREAMBANK STABILIZATION TECHNIQUES

## Classroom and Field Workshop

### September 26 to 28, 2006

### Hinton Training Centre, Hinton, Alberta

### Workshop Schedule

ARRIVAL	MONDAY, SEPTEMBER 25 <sup>th</sup>
7:00 PM – 10:00 PM	REGISTRATION (Entrance of Academic Building)  (Dinner not provided)
DAY ONE	TUESDAY, SEPTEMBER 26 <sup>th</sup>
7:30 AM – 8:30 AM	BREAKFAST / REGISTRATION (Mountain View Building)
8:30 AM – 12:00 PM	Classroom Training (Room 134, Academic Building)
12:00 PM – 1:00 PM	LUNCH (Mountain View Building)
1:00 PM – 4:30 PM	Classroom Training (Room 134, Academic Building)
5:30 PM	DINNER (Mountain View Building)
7:00 PM	Safety Orientation (Mandatory – Room 134, Academic Building)
DAY TWO	WEDNESDAY, SEPTEMBER 27 <sup>th</sup>
7:00 AM – 7:45 AM	BREAKFAST (Mountain View Building)
7:45 AM – 9:00 AM	Travel to Site (Private vehicle not allowed)
9:00 AM – 4:15 PM	Hands-On Training
4:15 PM – 5:30 PM	Return to Hinton Training Centre
6:00 PM	DINNER (Mountain View Building)
DAY THREE	THURSDAY, SEPTEMBER 28 <sup>th</sup>
7:00 AM – 7:45 AM	BREAKFAST (Mountain View Building)
8:15 AM – 9:00 AM	Travel to Site
9:00 AM – 2:00 PM	Hands-On Training
2:00 PM – 4:15 PM	Visit 2005 Sites
4:15 PM – 5:30 PM	Return to Hinton Training Centre
6:00 PM	DINNER (Mountain View Building) / Travel Home
OPTIONAL	FRIDAY, SEPTEMBER 29 <sup>th</sup>
7:00 AM	BREAKFAST (Mountain View Building)

**Bagged Lunches will be provided for Field Training days.**

### Accommodations

The **Hinton Training Centre** (<http://www.srd.gov.ab.ca/forests/resedu/etc/>) is a Government of Alberta dormitory-style training facility. *All rooms are double occupancy and non-smoking.* Registrants are responsible for their own personal care items, towels and face cloths, and alarm clock. A student guide is available on the Centre's website that includes a map of the facility and general policies.

## Registration Form

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City/Prov: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Gender (circle): M/F Roommate Request (optional): \_\_\_\_\_

Dietary Restrictions or Allergies: \_\_\_\_\_

Workshop Fee (see table at right)	
Extra Night (Optional, \$60)	
Late Registration Fee (\$100 after September 11, 2006)	
Subtotal	
+ GST (6% of Subtotal)	
Total Fees	

Organization	Workshop Fee
Alberta Infra. & Trans.	\$300
Fisheries and Oceans Canada	\$500
Other Government	\$500
Non-Government	\$800

Payment Method (circle): Invoice / Cheque / Money Order

Workshop fee includes classroom materials, three nights accommodations (September 25, 26, 27), all meals for September 26 to 28, and transportation to the field site. *There is no partial registration.*  
Extra night fee (\$60) includes accommodations for September 28 and breakfast on September 29.

**Total Fees due upon receipt of confirmation.** If payment method is by invoice, it will be sent to the address listed above unless other instructions are provided. Cheques or money orders should be made payable to "Thurber Engineering Ltd." and sent to Suite 200, 9636 – 51 Avenue NW, Edmonton, AB, T6E 6A5.

Space is limited; early registration is encouraged. Registrations after September 11, 2006, are subject to an additional \$100 charge. Absolutely no refunds after September 19, 2006, although substitutions will be permitted. *Preference will be given to first-time attendees registering before September 11.* No registration should be considered final until confirmation is received.

**Fax or email your completed registration form to Maggie Scott at (780) 437-7125 (Thurber Engineering) or [msscott@thurber.ca](mailto:msscott@thurber.ca)**

## Registrant Responsibilities

Registrants are responsible to bring safety boots, safety glasses, reflective vest, rubber boots (optional), gloves, hard hat, rain gear, note book, and pen. Shovels and hand tools will be provided at the site.

**Registrants will be required to sign a Waiver of Liability during registration.** A training video will be developed during the course for Alberta Infrastructure and Transportation. A permission form to allow your potential appearance in this video will also be provided. Efforts will be made to accommodate those not wishing to appear in the video.