
BIOENGINEERING and BIOTECHNICAL STREAMBANK STABILIZATION TECHNIQUES WORKSHOP: NOVEMBER 4, 5, 6, 2008



Classroom Training

November 4th, 2008

The Glenmore Inn & Convention Centre
2720 Glenmore Trail SE Calgary, AB
T2C 2E6

Field Training

November 5 & 6, 2008

Willow Creek
Hwy. 2
6 kms. North of Hwy 3 Junction
10 kms. North of Ft. Macleod, Alberta

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.

Classroom Training (November 4th) 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

Field Training (November 5 & 6) will be offered at the Willow Creek site located just east of Hwy 2, 6 kms. north of the Hwy. 3 junction, or 10 kms. north of Ft. Macleod, Alberta. Travel will be by passenger coach bus. Participants will install willow wattles, live stakes, and brush layering. Demonstrations provided at the site during the training will include hydromulching (straw, fibres, tackifiers), and hydroseeding, blown compost berm and blanket placement, live siltation and brush layering behind LPSTP, geotextile soil wrap, turf reinforcement matting, and in-stream monitoring procedures. Slope stabilization by soil nailing will be showcased.

Your Instructor: 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 technical information call: Fred Cheng, P.Eng. @780-415-1039 (Alberta Transportation)
email: fred.cheng@gov.ab.ca

**BIOENGINEERING and BIOTECHNICAL
STREAMBANK STABILIZATION TECHNIQUES
Classroom and Field Workshop
November 4, 5 & 6, 2008
Calgary, Alberta & Willow Creek, Alberta**

Workshop Schedule

DAY ONE		TUESDAY, November 4th Glenmore Inn & Convention Centre	
7:30 AM – 8:30 AM		BREAKFAST & REGISTRATION	
8:30 AM – 12:00 PM		Classroom Training	
12:00 PM – 1:00 PM		Lunch *	
1:00 PM – 5:15 PM		Classroom Training & Compulsory Safety Orientation	
DAY TWO		WEDNESDAY, November 5th Field Training	
7:40 AM		Meet in hotel lobby to pick up bag lunches ** for field trip and board the coach	
7:45 AM – 9:15 AM		Travel to Site @ Willow Creek via Passenger Coach Bus	
9:15 AM – 4:15 PM		Hands-On Training – Lunch on site	
4:15 PM – 5:45 PM		Return to Glenmore Inn - Calgary	
DAY THREE		THURSDAY, NOVEMBER 6th Field Training	
7:40 AM		Meet in hotel lobby to pick up bag lunches ** for field trip and board the coach	
8:15 AM – 9:15 AM		Travel to Site @ Willow Creek via Passenger Coach Bus	
9:15 AM – 4:15 PM		Hands-On Training -- Lunch on site	
4:15 PM – 5:45 PM		Return to Glenmore Inn Calgary	

* Day 1 Buffet Lunch will be provided in the meeting room.

** Day 2 & 3 Bag Lunches will be provided.

Accommodation

Our host hotel and meeting place is The Glenmore Inn & Convention Centre, 2720 Glenmore Trail SE, Calgary, AB T2C 2E6 phone 1-800-661-3163. (<http://www.glenmoreinn.com>).

A block of 20 rooms has been reserved for out of town attendees.

Please mention that you are with the C-TEP Bio Engineering Workshop when booking your rooms. Reserve early!

If it more convenient for some attendees to travel to the field site on their own on Days 2 & 3, they can meet the group on site on Day 2 & 3 at 9:15 AM.

Registrants are responsible for their own accommodation, breakfast on Days 2 & 3 and evening dinners.

BIOENGINEERING & BIOTECHNICAL WORKSHOP 2008

Registration Form (fax # 780-422-2027)

Name: _____

Organization: _____

Address: _____

City/Prov: _____ Postal Code: _____

Tel: _____ Fax: _____ Email: _____

WORKSHOP FEES:

Organization	Fee
Alberta Transportation	\$295
C-TEP Members	\$595
Other Government Agencies	\$595
-Non C-TEP Members -Non Government Organizations	\$795

- **GST Exempt**
- *Alberta Transportation is a member of C-TEP and is the primary sponsor*

- **Your workshop fee (GST Exempt), includes classroom materials, breakfast on Day 1, lunches each day and transportation to and from the field site.**
- **Partial registrations are not permitted.**
- **Fees are due and payable upon receipt of confirmation.**

Payment Method: Credit Card Cheque Invoice (for C-TEP Members Only)

Payment Amount: \$ _____

- Visa or MasterCard:** fax to 780-422-2027 or call with particulars

Credit card Number: _____

Print name as it appears on the card: _____

Expiry Date: _____ Signature: _____

- By Cheque:**

Please make cheques payable to "C-TEP" and send to:

C-TEP

c/o Alberta Transportation - Technical Standards Branch

2nd Floor, Twin Atria Bldg. 4999 – 98 Avenue

Edmonton, AB Canada T6B 2X3

Attention: Neil Little Executive Director

Phone: 780-422-7634 Fax: 780-422-2027 email: nlittle@c-tep.com Website: www.c-tep.com

- Invoice: (for C-TEP Members Only).** The invoice will be sent to the registrant's address as provided, unless otherwise instructed.

SEND COMPLETED REGISTRATION FORMS TO C-TEP, as per our contact information.

BIOENGINEERING & BIOTECHNICAL WORKSHOP 2008

Registrant Responsibilities

- Registrants are responsible for bringing approved safety boots, safety glasses, reflective vests, rubber boots (optional), gloves, hard hats, rain gear, note books/pens. (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 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.
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- Space is limited; early registration is encouraged.
- The registration deadline is October 24, 2008.
- There will be no refunds thereafter, although registrant substitutions are permitted.
- No registration should be considered final until confirmation is received.

We look forward to seeing you !

For questions regarding registration, contact:

Neil Little, C-TEP Executive Director

Ph. 780-422-7634

Email: nlittle@c-tep.com

www.c-tep.com



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