

# ASPECT

**Definition: 'as - pekt / 1. a position facing a particular direction  
2. appearance to the eye and mind**

## THE DEGIFS NEWSLETTER

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### ***The Editorial***

by  
Sharon Scott, P.Geo., Eng. L.

Winter 2009 is almost at an end and the forestry industry is still “struggling through an unprecedented downturn” (as per the writings of Robert Barron in a daily News article dated March 26, 2009 for Canwest news services). He indicated in the article that “of the 55,000 forest workers in the province, an estimated 20,000 are no longer employed with about one-third of those on the Sunshine Coast and Vancouver Island, and those numbers are expected to increase”.

Even with the economy in a recession, the world continues to turn. Governments are cutting where they can, with deficits being all the rage. The experts keep saying that things will turn around in 2010. Any of us working in resource-based industries should be used to the cyclical turn of things....with highs and lows every seven to ten years or so. Even IPP projects are being affected as BC Hydro decided to let fewer contracts for this type of project. Whether it's forestry, mining and exploration, oil and gas or other resource projects, our skill sets are necessary and required: today and in the future.

Your executive has been busy over the winter months and are moving forward with the change in name and focus of this organization. We have a number of announcements about upcoming events in this issue, as well as an article on resource road legislation. Enjoy!

**To all members, you make ASPECT what it is, so take the time to contribute your thoughts and ideas in articles and letters. ASPECT welcomes announcements, technical articles, letters to the Ed, project profiles, photos, tips, jokes, etc.....basically anything that would benefit or interest DEGIFS members.**

*Please note: DEGIFS Executive does not necessarily support or agree with the opinions and conclusions indicated in the editorial.*

**DIVISION OF ENGINEERS AND GEOSCIENTISTS IN THE FOREST SECTOR**

**Volume 14, No. 1**

**MARCH 2009**



## DEGIFS 2009 AGM AND TECHNICAL STREAM PRESENTATIONS

The APEGBC and DEGIFS 2009 AGM will be held in Victoria, October 15<sup>th</sup> and 16<sup>th</sup>. The conference also provides an opportunity for members to network and discuss their work.

A fieldtrip along the Pacific Marine Route is planned for Wednesday, October 14<sup>th</sup>. There will be two days of presentations, most of them speaking to this year's theme 'Resources Roads and Bridges'. A draft agenda is attached below.

The DEGIFS AGM is scheduled for Thursday afternoon, starting after the 3:00 pm coffee break. This time was selected to allow members to attend the AGM.

### 2009 DEGIFS – Draft Program

#### Theme – Resource Roads and Bridges

Stream Coordinators: Jack Whittles, P.Geo., Eng.L. and Sharon Scott, P.Geo., Eng.L.

#### Wednesday, October 14<sup>th</sup>

**Fieldtrip led by Dominico Innanardo, P. Eng, RP Bio, RPF** – along the Pacific Marine Route and looking at roads and bridges on forested lands

#### Thursday, October 15<sup>th</sup>

**Michael Cullen, P.Eng.** – Resource Roads in Steep Terrain

*Coffee*

**Roads Task Force** – New Guidebook

**Glynnis Horel, P. Eng.** – Skill Sets

*Lunch*

**Lee Deslauriers, P.Eng. and Glen Beaton, P.Eng.** – Design Concepts for Mitigating Environmental Impacts from Coastal Log Dumps

**Ian Webster, P. Geo.** – Proposed Resource Roads Act and how changes may affect exploration/mining

*Coffee*

### DEGIFS AGM

#### Friday, October 16<sup>th</sup>

**Gino Fournier, P. Eng., RPF** - Roads and Bridges

*Coffee*

**Gordon Butt, P. Geo.** – Resource Road Project

**Roger Harris** – BC Forest Safety Council

*Lunch*

**Dave Maloney** – (FREP) water quality effectiveness evaluation (assessing sediment generation from a resource road at or near a stream)

**Craig Sutherland, P. Eng** – Cowichan River restoration project

*Coffee*

**Stephen Bean, P.Eng.** - North Beach Rock Slide - A Case Study

**Jeremy Araki, P. Eng.** – Resource Roads - Geometric Design

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## DEGIFS \$2,000 BURSARY

The Division of Engineers and Geoscientists in the Forest Sector (DEGIFS) is pleased to offer a \$2,000 bursary, in 2008/2009, aimed at advancing the practice of engineering and geoscience/geotechnique education and practices in BC. The bursary is intended to provide financial assistance to a student, registered in an accredited post-graduate program at a degree-granting institution in BC, who intends to apply for registration as either a Professional Engineer or Professional Geoscientist upon completion of their studies. Studies should relate directly to the practice of engineering or geoscience/geotechnique in the forest sector.

### Eligibility:

i) Applicants must be enrolled in a post graduate program directly related to the practice of forest engineering and/or geoscience/geotechnique, leading to membership in the Association of Professional Engineers and Geoscientists of British Columbia;



ii) All applicants shall demonstrate above average grades.

#### Applicants to submit:

- i) A covering letter describing the applicant's career goals and financial need. The application should include **permanent** contact address, phone number(s) **and** e-mail information;
- ii) An official copy of their most recent transcript showing grades accompanied by a list of current courses and/or program of study; and
- iii) A type written one page description (e.g., an extended abstract) of the proposed work that will be completed and how it relates to the advancement of forest engineering and/or forest geoscience/geotechnique.

**Submit applications to the DEGIFS Bursary Sub-committee, c/o APEGBC, 200 – 4010 Regent St., Burnaby, BC, V5C 6N2.**

**The deadline for receipt of applications is: JUNE 30, 2009.**

**Evaluation of Applicants:** The DEGIFS Bursary Sub-committee will evaluate submissions based on:

applicant's field of study as relevant to the practice of engineering and geoscience/geotechnique in the forest sector, career goals, grades and financial need. The one page description of the work that will be completed will be reviewed for: relevance to engineering/geoscience/geotechnique in the forest sector, organization and clarity. Additional criteria include registration within a department and program directly related to the practice of engineering and geoscience/geotechnique in the forest sector and practical experience. Applicants are advised to provide complete submissions based on the foregoing criteria.

**Award:** A \$2,000 bursary will be awarded to the selected student by August 15, 2009. DEGIFS reserves the right not to award the bursary if suitable candidates are not found. A successful

applicant from an immediately preceding year will not be considered. Prior to award, the selected recipients will be required to provide confirmation of current registration to the DEGIFS Bursary Sub-committee.

For additional information regarding DEGIFS, please visit our web site at: <http://www.degifs.com> or contact Julien Henley, P.Eng. ([henleyj@ae.ca](mailto:henleyj@ae.ca))

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## Forest Engineering Award of Excellence -2009

APEGBC is inviting nominations for the 2009 Forest Engineering Award of Excellence.

The Forest Engineering Award of Excellence—sponsored jointly by APEGBC and the Association of BC Forest Professionals (ABCFFP)—recognizes excellence and promotes cooperation and leadership in forest engineering in the broadest sense. Past recipients were engineers, geoscientists, foresters, a consulting firm and the western division of FERRIC (see table below).

Nominees may be individuals, organizations or associations responsible for projects that demonstrate or represent outstanding accomplishments in forest engineering. Individuals must be members of either ABCFFP or APEGBC. Organizations and associations must be recognized as being associated with professional forestry, professional engineering or professional geoscience.

To be eligible, projects must have been completed within the past two years and carried out by, or under the supervision of, a member of either association. Nominees must be either residents of BC or work for a BC-based firm, or the work must have been carried out in BC. A management, academic or research contribution, or the life work of an individual, may also be considered. The award is presented annually and



alternates between associations. The award schedule was revised earlier this year; the 2009 award will be presented by APEGBC at the 2009 Annual Conference in Victoria.

The nomination deadline for the 2009 Forest Engineering Award of Excellence is **July 17, 2009**. The terms of reference, nomination procedures and nomination forms can be accessed through the links below.

[http://www.apeg.bc.ca/services/awards/Forest\\_Eng\\_Award\\_TOR.pdf](http://www.apeg.bc.ca/services/awards/Forest_Eng_Award_TOR.pdf)

<http://www.apeg.bc.ca/services/awards/Forest%20Eng%20Award%20Nomination%20Form.pdf>

<u>Year</u>	<u>Recipient</u>
1997/98	Forest Engineering Research Institute of Canada (Western Division)
1998/99	Glynnis Horel, P.Eng.
1999/00	Institute of Forest Engineering of British Columbia
2000/01	Robert P. Willington, PhD, RPF, P.Geo.*
2001/02	no recipient
2002/03	Doug VanDine, P.Eng., P.Geo.
2003/04	Ron L. Davis, P.Eng.
2004/05	George Shikaze, P.Eng.
2005/06	Associated Engineering (BC) Ltd.
2006/07	Jim Schwab, P.Geo., Eng.L., RPF
2007/08	Al Chatterton, RPF, P.Geo.

## Stephen C. Chatwin, P. Geo. By Dan Hogan, P. Geo.

In October 2008, Steve Chatwin retired from the practice of geoscience; thus ending a remarkable career that spanned more than 30 years, included work on four continents, made major contributions to the professional development of fellow scientists, articulated and resolved geoscience issues and formulated government policies. His career's work has led to improved stewardship and management of our natural resources.

Steve studied at UBC (BSc 1974) and then worked in the Canadian Arctic for the Geological Survey of Canada. During this time (1974-76) he undertook terrain mapping in the Old Crow area in northern Yukon and the Norman Wells area, NWT. Attracted to the two Poles, he then worked for New Zealand Antarctic Division, (Department of Science and Industrial Research), in Antarctica (Scott Base -Dry Valleys) for 6 months followed by another six months in New Zealand doing mass balance surveys of alpine glaciers. Returning to Canada, Steve attended the University of Alberta (M.Sc.) where he studied permafrost degradation in peatlands along the proposed Mackenzie Valley Pipeline near Fort Simpson, NWT.

After starting PhD studies at UBC in 1978, Steve was encouraged to join the Land Use and Planning Advisory Team (LUPAT) at MacMillan Bloedel (MB) that had commenced pioneering work on terrain attributes and landslide problems associated with forestry activities. Midway through his sojourn with MB, Steve sidestepped the recession and went to Africa for four years with Agriculture Canada and CIDA, in Tanzania (1983-87) doing soils mapping and soil fertility interpretations in the Serengeti Plains.

Returning to Canada, Steve was attracted to the Research Branch, BC Forest Service in 1988 with responsibility for the province's soils science and



forest hydrology research program. As Manager of watershed assessments and fish-forestry interaction programs (FFIP) research, he made major contributions to several large, long-term research programs. He managed the Queen Charlotte Islands project for a decade, maintained the provincial government's interest in the Carnation Creek FFIP during difficult fiscal times and a period when other senior government agencies had withdrawn their support and had the foresight to embark on studies in the province's interior Stuart-Takla study sites. As the senior manager of hydrological and geomorphological research, Steve had the background and vision to articulate the important relevant research questions, the strategic ability to generate the support required, and the leadership to encourage others to contribute to these long term projects. The 1980's and 90's was a time of unprecedented growth in the awareness, and resolution of hydrological and geomorphological issues in British Columbia. Steve played a key role in this growth that led ultimately to improved environmental conditions.

Building on the experiences gained from forestry research studies, Steve made significant contributions to many resource management policies. He was a lead member of the groups that developed, produced, and delivered the Coastal Fish Forestry Guidelines, the Community Watershed Guidelines, Interior Fish-wildlife Forestry Guidelines, and the Karst Terrain Management Procedures that preceded the Forest Practices Code (FPC). These documents formed much of the biophysical foundation of the FPC developed and implemented in the 1990's. Steve made major contributions to many sections of the FPC, particularly those that dealt with stream integrity, fish habitats, riparian zone management, domestic water supplies, terrain analysis and cumulative watershed hydrological assessments.

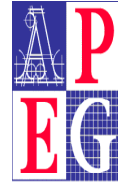
In 2002, Steve joined the Forest Practices Board as the Special Projects Manager. He was interested in developing criteria for evaluating the effectiveness of specific forest practices in achieving their stated objectives. He conducted comprehensive surveys of the effectiveness of: range practices on stream function; stream crossings (culvert) in allowing fish passage; the terrain management program in reducing landslides; and the efficacy of the mountain pine beetle program, among others.



*Steve on one of his many field excursions.*

Steve Chatwin has successfully combined a rigorous scientific background, a progressive, strategic approach to integrating science and resource development policy and strong leadership qualities to provide better overall resource management in British Columbia.

In 1983 Steve left to start work in Africa. In 2008 he has chosen to return there and is embarking on a two year sojourn to Nigeria to, as Steve put it, "weather the recession". Still ahead of the game. His current retirement hobby topic is the paleohydrology of Lake Chad. Thanks for all your contributions to our science, the environment, and our forests -- enjoy the freedom!



## Resource Road Legislation on Crown Land Article By Phil Zacharatos, RPF

### *Editors note:*

*This article was originally published in the BC Forest Professional magazine January/February 2009 (Volume 16 Issue 1). It is being reprinted here with the permission of APCFP magazine editor and the author.*

Currently, BC resource roads on Crown land are governed by a complex array of legislation administered by separate provincial government organizations. Each organization applies different tenures, levels of enforcement and standards for construction, maintenance, use and deactivation. As resource development and road construction have increased, so have the challenges associated with the current regulatory framework.

### **Current Regulatory Framework**

Multi-industry resource development is expected to intensify and move into more populated and sensitive areas of the province. This will further exacerbate problems with the current regulatory framework. For example, different road-use rules and road safety enforcement levels create challenges for road safety for industrial users and the general public. Meanwhile, disincentives to share existing roads between industrial users create the potential for duplicate road systems and an increased foot print on the landscape. As standards and enforcement varies across government, companies may have several different administrative and maintenance responsibilities over different sections of the same road. Differences in the fees paid for use of road aggregate between industries also cause problems. In cases where industrial users cannot agree on issues such as user fees, maintenance levels and design standards, there is no efficient and effective dispute settlement mechanism that helps industry resolve issues quickly. Also, due to differing tenure approaches, forest companies may initiate a process to deactivate a road (as required by legislation) – even though it is still in use or could be used by companies from another

industry. Oil and gas companies may be unable to obtain secure tenure over a road into which they have invested millions of dollars and due to differences in the way resource industries recover capital investments in roads, there are disincentives to transfer the road tenure between industry users. Finally, liabilities associated with untenured roads are unquantified, but are known to be increasing.

### **The Resource Road Act**

In response to these issues the government introduced the *Resource Road Act* - Bill 30 into the Legislative Assembly in April 2008. Bill 30 was a very complex piece of multi-industry legislation. This caused government to not proceed with Bill 30 to allow time for further review and discussion with the numerous industries that would have been subject to the legislation. Government sees merit in a single legislative framework for multi-industry resource roads on Crown lands, but recognizes that further analysis is required before proceeding.

### **Considering a Revised Legislative Framework**

The purpose of resource road legislative consolidation would be to establish a single Act covering the administration, construction, maintenance, deactivation and multi-purpose use of resource roads on Crown land. Consolidated legislation would allow a more predictable, fair and cost-effective management framework. This would improve safety and access for all resource road users and bring efficiencies and consistency for industrial users in forestry, oil and gas, and mining. In particular, new legislation would establish a foundation for addressing resource road safety which has been the subject of recommendations from several key initiatives including:

- Final Report of the Forest Safety Task Force: A Report and Action Plan to Eliminate Deaths and Serious Injuries in British Columbia Forests. (January 2004);
- BC Coroners Service. Frank Leroux Coroner's Inquest. (June 2007);



- Forest and Range Evaluation Program. Report #12: Worker Safety Impacts Associated with Legislation, Policy, Planning and Implementation of Forest Harvesting Activities in BC.” (October 2007);
- BC Officer of the Auditor General: Preventing Fatalities and Serious Injuries in B.C. Forests: Progress Needed. (January 2008);
- WorkSafeBC’s Proposed Amendments of Occupational Health and Safety Regulations Part 26: (January 2008). Note: WorkSafeBC has deferred new regulations on resource roads under Part 26 pending the progress of Bill 30; and
- BC Forest Safety Ombudsman report “No longer the road less traveled” (February 2008).

In addition, new resource road legislation should ensure there is no impact on existing access management or land-use planning and approval processes. It should maintain the existing levels of free public access and maintain the current access provisions for users such as free miners and for non-industrial commercial recreation users and tourism operators. Finally, it should establish consistent compliance and enforcement programs across industries and establish a level playing field between industrial users in terms of cost recovery, as well as facilitate inter-industry communication and road tenure transfer.

### **Additional Policy Issues for Further Consideration**

Developing a regulatory model that will meet the needs of multi-industrial and multi-purpose users of resource roads on Crown land will require solutions for complex policy questions. Several key policy challenges must be considered including harmonizing multi-industry standards for construction, maintenance, and deactivation, and harmonizing the administration of multi-industry permitting processes. We need to protect existing access provisions for public and non-industrial users. We also need to clarify responsibility for road maintenance and improvements and identify which roads and which

road users are to be regulated. Finally, we need to identify which government agency or agencies would be tasked with the administration of resource roads on Crown land.

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### **DEGIFS MEMBER PROFILE:**

**Jennifer Clarke, P. Geo, Eng. L.**

*Interview by: Sharon Scott*

#### **Who are you and how did you get to where you are now?**

My name is Jennifer Clarke, P.Geo., and I am a consulting geomorphologist with Clarke Geoscience Ltd. in Kelowna, BC.

As a kid, I was always really interested in earth science (rocks, sand, fossils, etc.) and, although I never imagined where it would take me, I enrolled in the co-op geography program at the University of Waterloo. I was so dazzled by spectacular mountain images presented in my physical geography lectures that I approached the professor to find out how I could get “there”. Dr. Gardner’s advice landed me a research scholarship in the Rockies and a step towards a M.Sc. degree at UBC where I studied snow avalanches under Dr. McClung. After finishing school and travelling a bit, I started work in the engineering/environmental consulting world at a time when the Forest Renewal Program was kicking off. Through the 1990s, I gained experience completing countless watershed assessments, stream channel assessments, and terrain stability assessments. Through this, I was fortunate to work with many great people and in some really beautiful places in BC.

#### **What do you do?**

I tell people that I wear two hats – an environmental scientist hat and a geoscientist hat. Lately, my work has been a mixture of larger-scale watershed assessment work, looking at MPB effects on drinking water quality in several Okanagan Watersheds, and smaller-scale land-



development projects, completing environmental impact assessments and hazards assessments, for example. I am also a mother of two girls (ages 7 and 5) and recently got a dog (Ruby). So I try to balance a busy life with kids and a career that I really enjoy.

**What has been your favorite project experience?**

Most projects that take me into the “woods” are favourites. It is always a thrill to drive, hike, or fly into some of the more remote areas of the province. A favourite project of mine was one spent working in the Bighorn Creek watershed in the east Kootenays. Our study team completed a multi-disciplinary watershed restoration project in this beautiful watershed. A highlight for me was conducting a more in-depth investigation of aggraded fluvial material in the lower reaches that included test pitting and radio-carbon dating to determine sedimentation rates and ages of material. It was a very interesting project in one of the most beautiful areas of the province.

**If you could impart some advice to young DEGIFS members, what would it be?**

Ask questions and get involved. Firstly, don't be afraid to approach colleagues or more senior members because my experience had been that these people tend to be incredibly generous with their time and are often as enthusiastic as you to discuss projects or common interests. Secondly, volunteer through the association or through local organizations and committees. It is a fantastic way to meet people and keep on top of the profession.

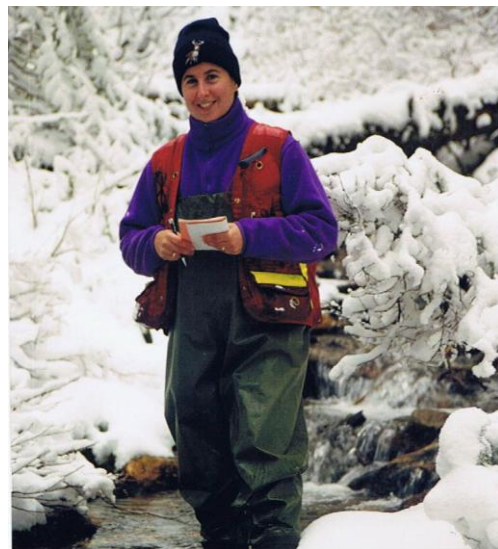
**In your opinion, how can APEGBC or DEGIFS better meet the needs of its members?**

I think that APEGBC could do a better job promoting the profession to the public. I think there is a general lack of understanding and appreciation for engineers and geoscientists. For example, most people I meet do not know what a geoscientist is, or is capable of doing.

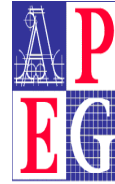
I also feel that engineers and geoscientists have a very important role to play in communicating the potential environmental consequences associated with climate change. As individual members, and as an Association, we should better demonstrate a mitigative role to the broader community.

**And the fun question.... If you could be any kind of geomorphic event, what would you be?**

I used to want to be a massive, landscape-altering debris flow and maybe part of me still does. I've always been intrigued by debris flow landforms and deposits as they provide such interesting insight into the mechanics of the event. Large-scale debris flows are interesting and mysterious because their occurrence is usually a culmination of numerous factors – a geomorphic “perfect storm” perhaps.



*Jen enjoying winter field work!*



## CONTINUING PROFESSIONAL DEVELOPMENT OPPORTUNITIES

*From APEGBC website*

### Groundwater Resources: Assessment, Monitoring, Modeling and Management in British Columbia

*April 2, 2009 - Vancouver, BC*

This seminar is targeted to civil, environmental, municipal and geological engineers, and geoscientists who are interested in learning about the importance of the groundwater resource, tools used to assess the resource, and the relevant framework for managing this resource in BC.

[http://www.apeg.bc.ca/prodev/events/groundwater\\_management\\_09.html](http://www.apeg.bc.ca/prodev/events/groundwater_management_09.html)

### Advanced Slope Characterization, Analysis & Risk Assessment

*April 16 & 17, 2009 - Vancouver, BC*

This two day workshop builds on the previous Introduction to Slope Stability course presented by APEGBC and led by Eric Eberhardt, Oldrich Hungr and Doug Stead, and will be of interest to geotechnical engineers and geoscientists interested in new developments in slope characterization, monitoring and analysis, as they apply to highways, mining, forestry and hazard assessment. The course is open to everyone, including those who did not participate in the introductory workshop.

[http://www.apeg.bc.ca/prodev/events/advanced\\_slope\\_analysis\\_apr09.html](http://www.apeg.bc.ca/prodev/events/advanced_slope_analysis_apr09.html)

### Guidelines for Management of Terrain Stability in the Forest Sector

*Wednesday, April 15, 2009 Nanaimo, BC or via webcast*

*Monday, April 20, 2009, Kamloops, BC*

*Monday, April 27, 2009, Prince George, BC*

The Guidelines for Management of Terrain Stability in the Forest Sector was created through a collaboration of APEGBC and ABCFP. These Guidelines are part of the professional reliance model envisioned under the Forest and Range Practices Act. It advocates a team approach for developing a terrain management model.

This seminar will provide an overview of the Guidelines, specifically, the roles and responsibilities that members of both Associations have when carrying out work in the management of terrain stability. Information will be given on when and where a TSA should be carried out and whether or not a TSA has been carried out. Participants will learn forest development strategies that are consistent with the risks and how to interpret the Guidelines and gain an overall understanding of how these Guidelines will impact their practice.

This training will assist licensees in practicing due diligence which will include considerations around when to engage other professionals. All Registered Professional Foresters, Registered Forest Technologists, Professional Engineers & Professional Geoscientists and others who are involved with managing terrain stability will benefit from this seminar.

[http://www.apeg.bc.ca/prodev/events/guidelines\\_mgmt\\_terrain\\_apr09nanaimo.html](http://www.apeg.bc.ca/prodev/events/guidelines_mgmt_terrain_apr09nanaimo.html)

[http://www.apeg.bc.ca/prodev/events/guidelines\\_mgmt\\_terrain\\_apr09kamloops.html](http://www.apeg.bc.ca/prodev/events/guidelines_mgmt_terrain_apr09kamloops.html)

[http://www.apeg.bc.ca/prodev/events/guidelines\\_mgmt\\_terrain\\_apr09pg.html](http://www.apeg.bc.ca/prodev/events/guidelines_mgmt_terrain_apr09pg.html)



## **Guidelines for Professional Services in the Forest Sector - Crossings**

*Wednesday, April 15, 2009 Nanaimo, BC or via webcast*

*Monday, April 20, 2009, Kamloops, BC*

*Monday, April 27, 2009, Prince George, BC*

Initially approved in 2005, by the councils of ABCFP and APEGBC, the "Guidelines for Professional Services in the Forest Sector – Crossings" was created through a collaboration of both organizations. It sets standards for members of the ABCFP and APEGBC involved in forest crossing planning and design. The Guidelines were recently revised to address matters related to engineered culverts.

This seminar will provide an overview of the Guidelines, specifically the roles and responsibilities that members of both Association have when carrying out work on Forest Crossings. Information will be given on how professionals are to interact with regards to the planning and design of crossings, as well as their limitations. Participants will learn how to interpret the results-based guidelines and gain an overall understanding of how these Guidelines will impact their practice.

This training will assist licensees in practicing due diligence, by ensuring that they know the appropriate levels at which to involve different professionals. All Registered Professional Foresters, Registered Forest Technologists, Professional Engineers & Professional Geoscientists and others who are involved with forest crossings will benefit from this seminar.

Please note that while the seminar content will be relevant to all members, this is not intended to be a "how to" course on bridge design.

[http://www.apeg.bc.ca/prodev/events/guidelines\\_psfs\\_apr09nanaimo.html](http://www.apeg.bc.ca/prodev/events/guidelines_psfs_apr09nanaimo.html)

[http://www.apeg.bc.ca/prodev/events/guidelines\\_psfs\\_apr09kamloops.html](http://www.apeg.bc.ca/prodev/events/guidelines_psfs_apr09kamloops.html)

[http://www.apeg.bc.ca/prodev/events/guidelines\\_psfs\\_apr09pg.html](http://www.apeg.bc.ca/prodev/events/guidelines_psfs_apr09pg.html)

## **Erosion & Sediment Control - Fundamentals, Best Management Practices & Innovations**

*Monday, May 11, Vancouver, BC*

This seminar is a comprehensive one day classroom-based session. It will detail the current state of the industry as well as recent innovations and advances. The session will overview the theory, fundamentals and causes of erosion and sedimentation, but focus on the reasons for poor ESC practices and performances that are so prevalent today and how to achieve the results we need. We will explore some of the more common practices and review their most appropriate uses and most applicable characteristics. We will demonstrate the processes and procedures all practitioners should employ in the preparation, implementation, and execution of erosion and sediment control plans and contracts.

This session is appropriate for civil and environmental engineers, designers, field staff, project managers, regulatory managers, and all those active in the ESC industry. Find out how to consistently meet the governing guidelines, regulations, and bylaws, using fundamental concepts and approaches, and save yourselves and your clients the time, money, and frustration. Learn how to do ESC right!

[http://www.apeg.bc.ca/prodev/events/erosion\\_sedimentcontrol\\_may09.html](http://www.apeg.bc.ca/prodev/events/erosion_sedimentcontrol_may09.html)



## Geosynthetic Reinforced Soil

*Tuesday, May 26, 2009 - Nanaimo, BC*

This course encourages participants to develop an understanding of fundamental concepts as they govern the behavior of geosynthetic reinforced soil structures. Material properties are examined that govern performance, including mobilized tensile strength, soil-geosynthetic bond and strain compatibility.

For more information or to register for this seminar, please visit:

[http://www.apeg.bc.ca/prodev/events/geosynthetic\\_nanaimo\\_09.html](http://www.apeg.bc.ca/prodev/events/geosynthetic_nanaimo_09.html)

## Mining and Sustainability BC: From Theory to Practice

*Thursday, May 28, 2009 Vancouver, BC*

APEGBC is pleased to present a one day seminar for engineers, geoscientists and others working or interested in the mining and mineral exploration sector. Leading practices will be identified that integrate sustainability principles into the design, planning and management of mining and mineral exploration projects. Practical experiences will be reviewed by reference to relevant case histories within the mine life cycle.

Participants will learn about:

- The practical implications of sustainability for engineers and geoscientists;
- How the objectives and principles of sustainability are reflected in leading practices in the mineral exploration and mining context
- When and how sustainability can be incorporated into each phase of the mine lifecycle.

This seminar will be of specific interest to Professional Engineers and Geoscientists with a technical background and experience in mining and mineral exploration, members-in-training.

[http://www.apeg.bc.ca/prodev/events/mining\\_sustainability\\_may09.html](http://www.apeg.bc.ca/prodev/events/mining_sustainability_may09.html)

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## OTHER PROFESSIONAL DEVELOPMENT OPPORTUNITIES

### CANQUA/CGRG CONFERENCE

**May 3-8, 2009 at Simon Fraser University**

The CANQUA 2009 organizing committee would like to invite you all to Simon Fraser University from May 3 to May 8<sup>th</sup> for the biennial conference. We are planning a number of exciting fieldtrips including CGRG sponsored pre-conference trip to the interior of British Columbia to explore glacial history and paleo-ice sheet dynamics, a post conference trip to the Channeled Scabland in northwestern United States, and a number of 1-day mid-conference trips. We are also planning a one day short course to be given by Dr. John Gosse on the application of terrestrial cosmogenic nuclides to Quaternary research. No official theme has been set for the conference and we are requesting input from members for special sessions; suggestions will be vetted by the organizing committee. Please mark May 3-8, 2009 on your calendar as we plan on having an informative and exciting meeting.

<http://www.sfu.ca/earth-sciences/CANQUA/index.html>

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## ANNOUNCEMENTS

### Questionnaire for the “Guidelines for Professional Services in the Forest Sector – Crossings”

The JPB has set a Crossing Guideline Review Task Force (CGRTF) to design a survey to determine whether practitioners are following the crossing guidelines, and whether those following the guidelines have found inconsistencies. As a result, the CGRTF has formulated the following questions and is looking for feedback from APEGBC and ABCFP members:

- Do you reference the Crossing Guidelines when completing bridge and culvert crossings projects? If not, why not?
- What parts of the guideline do you find useful? What are the positive aspects?
- What are some areas of concern or confusion with the guideline? What can be improved?
- Do the roles of the Coordinating Registered Professional and the Specialist, as outlined by the Crossings Guidelines, accurately reflect current practice in British Columbia Forest Sector?
- Do you think that how the terms planning/design are used in the guideline are appropriate?
- Do you use Design Aids? What Design Aids do you use?
- Do you have any concerns regarding the definition of a simple crossing in the Guideline?

Please email your responses to Jeremy Araki, [jaraki@forsite.ca](mailto:jaraki@forsite.ca), or Julien Henley, [henleyj@ae.ca](mailto:henleyj@ae.ca), by **April 15, 2009**.

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### The Guidelines for Managing Terrain Stability in the Forest Sector are officially out. Go to:

<http://apeg.bc.ca/ppractice/documents/ppguidelines/guidelinesmanagementterrainstabilityforestsector.pdf>

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### Check out this site:

[http://ilmbwww.gov.bc.ca/nrsic\\_newsletter/files/NaturalNewsNewsletterFall2008.pdf](http://ilmbwww.gov.bc.ca/nrsic_newsletter/files/NaturalNewsNewsletterFall2008.pdf)

### Volunteer Opportunities:

We are still looking for volunteers to help. A Co-editor from the interior would be a nice addition to ASPECT in order to provide us with a balanced view between interior and the coast issues. If you have some time to spare please contact one of the executive or the current editor.

Got something pressing to say? Be a guest editor for an issue!

All you GIT/EIT types have an opportunity to get some great experience down in your logbooks by volunteering your time to ASPECT. Your input is welcomed!



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## Do Not Forget!!!

### ASPECT SUBMISSIONS

LAST DATE FOR SUBMISSIONS TO ASPECT	NEWSLETTER RELEASE DATE
June 15, 2009	June 30, 2009
September 15, 2009	September 30, 2009
December 1, 2009	December 15, 2009

Electronic submissions in **Word format (only)** should be made to Sharon Scott ([sharonkscott@shaw.ca](mailto:sharonkscott@shaw.ca)) by the date listed above.

(Refer to *Guidelines for Submission on the website* <http://www.degifs.com/guidelines.doc> for submission requirements).