

# ASPECT

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

## THE DEGIRS NEWSLETTER

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#### The Editors:

Sharon Scott, P.Ge., Eng. L.  
[sharonkscott@shaw.ca](mailto:sharonkscott@shaw.ca)

David Campbell, P. Geo.  
[David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)

### **The Editorial**

by

Sharon Scott, P.Ge., Eng. L.

Welcome to the June Election issue of ASPECT. Inside you will find all the information you need to evaluate executive endorsed candidates as well as how to nominate others.

We need members to take an active role in this organization to keep it strong and vibrant so please take the time to get involved. Our total membership this year is 252. We have been at that level for several years now. As DEGIRS (DEGIFS) has been around for 15 years and as we started with 8 members serving on the executive and then replaced three members one year and four the next, it means that approximately 60 members have already volunteered their time. Not to mention the numerous others who sit on the Joint Practices Board and other APEGBC and DEGIRS committees. But what that means is that we need members to be active and take on roles on the DEGIRS executive. Get out and participate!

On a separate note the forecast for forest fires is high this year. We all need to be aware of the danger of forest fires when working in the woods in any resource field. So take the time to get out and enjoy nature but remember to be safe!

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



## 2010/11 DEGIRS EXECUTIVE CALL FOR NOMINATIONS

The DEGIRS terms-of-reference (TOR) specify that the DEGIRS executive shall consist of the Past Chair and 7 members elected by the DEGIRS membership. The term of an executive member is two years. Three executive members are replaced each year with a fourth position replaced every second year. The Chair position continues serving a third year as Past Chair on the executive. Executive members whom were elected last year and are continuing include:

**David Campbell, P. Geo.**  
**Emily Davidson, P. Eng.**  
**Patrick Haesvoets, P. Geo.**  
**Les Theissen, P. Eng**

Executive members completing their terms this year are:

**Joe Kenny, P. Eng.**  
**Sharon Scott, P. Geo. Eng L.**  
**Shawn Vokey, P.Eng.**  
**Jeremy Araki, P.Eng.**

As out-going chair, Shawn Vokey, P. Eng., will continue with the executive for an additional year as Past Chair. ***In accordance with the DEGIRS TOR, a Nominating Committee was struck to make nominations for 3 positions on the 2010/2011 DEGIRS Executive. The goal of the nominating committee was to seek nominations for the executive that, when combined with the continuing executive members, is representative of:***

- The diverse fields of professional practice within the DEGIRS membership;
- The geographic areas in which the DEGIRS membership practice; and
- Provides government, industry and consultant representation.

The following is the list of the nominees, who have agreed to be nominated for the 2009/2010 DEGIRS Executive:

**Joe Kenny, P. Eng.**  
**Dave Bergman, P. Geo.**  
**Raymond Getzlaf, P. Eng.**

**Under the TOR, additional nominees can be made, in writing, by a minimum of two DEGIRS members.** Such nominations, signed by the members making the nomination and accompanied by written consent of the nominees, must be sent to the DEGIRS Secretary c/o Peter Mitchell, P.Eng., at APEGBC. To be eligible, the nominations must be received no later than 30 days after this publication of the list of candidates nominated by the Nominating Committee. Please note that affiliate members are not eligible to hold executive positions or vote in an election. In accordance with the TOR, if no nominations are received from the membership in accordance with the above criteria, those nominated by the nominating committee will be declared elected by acclamation and no letter ballot will be conducted. In the event that nominations are received from the membership such that the total number of nominees is greater than executive positions available, a letter ballot will be conducted. Critical dates for the election of Executive members include:

*Deadline for receipt in writing of nominations: 30 days after the publication of Volume 15, No. 2 of Aspect (Deadline = **July 30, 2010**)*  
*Letter ballots to be sent to the membership eligible to vote: **September 4, 2010***  
*Deadline for receipt of completed ballots: **October 1, 2010***  
*Ballots to be counted by: **October 6, 2010***  
*Membership to be notified of election results at the DEGIRS Annual General Meeting scheduled for Whistler, **October 21, 2010.***



***Additional details on the election of executive Members can be found in the DEGIRS Terms of Reference which can be found on the DEGIRS web site at: [www.degirs.com](http://www.degirs.com).***

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## 2010/11 DEGIRS EXECUTIVE NOMINATIONS

Following, are brief biographies of nominees put forward by the DEGIRS Executive Nominating Committee. As indicated in the previous article, if no additional nominations are received by July 30, 2010 then these individuals are declared elected by acclamation.

### **Joe Kenny, RPF, P. Eng.**

I am honoured to be nominated for the DEGIRS Executive for a second term. I am presently employed by the British Columbia Forest Service as a Field Engineer in the Northern Interior Forest Region based out of Prince George. Prior to moving over to the government I was Senior Forest Engineer for Afognak Native Corporation based out of Kodiak Alaska. Previous to this I worked 11 years for International Forest Products based out of Campbell River BC most recently as Area Engineer in the Midcoast Area.

As part of the DEGIRS Executive I will continue to work towards expanding our division's profile in other resource sectors. As the forest industry starts to rebound it would be very easy to lose sight of the goal of expanding the division, but I feel that this must not happen. I believe that when our skills and abilities are fully recognized by the entire resource community they will see the benefits that employing a DEGIRS member will bring to their business. I will also continue to work for the membership to assist in the development of guidelines that effectively address the areas of practice overlap with the other professional associations. I look forward to the opportunity to continue working for the DEGIRS

membership for the betterment of the engineering profession in the resource sector.

### **David Bergman, P.Geo.**

I am pleased to accept the nomination as a candidate for the DEGIRS Executive. I have been working in the BC Forest Industry since 1994 when I got my start as a layout engineer. Since that time I have worked as a specialist in stream channel assessment, road deactivation and terrain mapping. I have been a registered P.Geo. since 2004 and have headed up my own consulting service Bergman Geoscience since 2007. The bulk of my work presently consists of terrain stability assessments of cutblocks and roads. I also get out on landslide assessments and the odd road deactivation project. I generally stick to my core clients' areas on Vancouver Island but I have also spent quite a bit of time on the mainland coast and the Haida Gwaii area.

I have benefited greatly from DEGIRS efforts, from Professional Development opportunities to the guidelines and codes that come from their work. I am excited to have an opportunity to work with the esteemed members on the executive, on ongoing projects and future challenges that will surely come along.

### **Raymond Getzlaf, P.Eng.**

I am pleased to accept the nominations to the DEGIFS Executive. I have been a member of DEGIFS since its induction in 1997 and now I am excited about getting more involved with this group. I know many of the members and have enjoyed DEGIFS articles over the years.

I have been in the Forestry Sector for approximately 16 years both privately as a consultant and now as Engineer for the Northern Interior Forest Region.

At the Ministry I enjoy working with the District and BCTS staff to come up with practical solutions to day to day issues and problems. I am hoping DEGIFS will allow me to share and



pick up new ideas that I can bring back to our group up here in the north.



## 2010 DEGIFS AGM – Field Trip and Technical Stream Presentations Schedule

The APEGBC annual general conference is being held in beautiful Whistler BC from Oct 21-23, 2010. In conjunction with this conference, DEGIRS is coordinating a two day technical talk stream from Oct 21<sup>st</sup> -Oct 22<sup>nd</sup>. The theme for this year's DEGIRS technical talk stream is **Water - Sky to Sea** and the stream coordinators are Patrick Haesvoets, P.Geo., and Sharon Scott, P.Geo., Eng.L.. A fieldtrip tour of an IPP project is scheduled Wednesday, October 20<sup>th</sup>.

The DEGIRS AGM is scheduled for Thursday afternoon, starting at 3:30 pm. This time was selected to allow members to attend the AGM.

The conference provides an opportunity for members to network and discuss their work.

A draft agenda of the field trip and technical talks are presented below.

### DEGIRS Fieldtrip- Tour - Fitzsimmons Creek Hydroelectric Project

**Wednesday October 20, 2010**

**Led by Charlie Harrison, P. Eng. and Catherine Tremblay, P. Eng.**

The Fitzsimmons project is an Independent Power Project (IPP) located in Whistler, BC in the Fitzsimmons Creek Valley, which is situated between the Whistler and Blackcomb Mountains. The Fitzsimmons IPP is capable of producing 7.5 MW of power, which makes it capable of offsetting the Whistler-Blackcomb Ski Resort's

energy needs on an annual basis. The project consists of a Coanda Intake, 3.4 km long surface penstock, and powerhouse. A portion of the penstock was constructed within 10 m of the 2010 Winter Olympic Bobsleigh Track, making it necessary to design the penstock over a considerable length to be constructed at the crest of a very steep slope.

### Draft Itinerary:

- *Tour starts- 7 am pickup in Vancouver*
- *9 am pickup in Whistler*
- *20-25 minutes travel to Intake*
- *1.5 hrs at intake*
- *20 minutes travel to powerhouse*
- *½ hr lunch at power house*
- *1.5 hrs at power house*
- *Stop at the Men's Start of the sliding centre could be added to discuss the slope stability issues that were encountered.*
- *Tour ends- 2 pm drop off in Whistler*
- *4 pm drop off in Vancouver*

### Technical Talk presentations Thursday October 21, 2010

**9:00-10:15 am**

**Dr. Richard Guthrie, P. Geo.**

Landslides in a digital age: Revealing the effects of climate and extreme weather on landslide occurrence.

**Coffee: 10:15-10:45 am**

**10:45-12:00 am**

**Dr. Younes Alila, P. Eng.**

Climate and land use change effects on flood risk: Can professionals differentiate the sense from the nonsense in the grey and peer reviewed science literature

**Lunch: 12:00 – 1:45 pm**



**1:45-3:00 pm**

**Dr. Mattias Jacob, P. Geo.**

Long term changes in rainfall intensities and impacts on mass movements. It includes new IDF curves based on climate change research, rainfall prediction and landslide predictions

**Coffee: 3:00-3:30 pm**

**3:30-5:00 pm**

**DEGIRS AGM**

**Friday October 22, 2010**

**9:00-10:15 am**

**Bill Floyd, RPF**

Using the Cold Region Hydrological Model (CRHM) to assess stand level energy balance recovery in watersheds dominated by rain-on-snow processes in a changing climate

**Coffee: 10:15-10:45 am**

**10:45-11:30 am**

**Jim MacDonald – DEGIRS 2009 Bursary Winner**

The effects of timber harvesting and windthrow on landslide initiation, Vancouver Island, BC

**11:30-12:00 am**

**Drew Brayshaw, P. Geo.**

Bankfull discharge and sediment transport in British Columbia headwater streams

**Lunch: 12:00 – 1:45 pm**

**1:45-2:15 pm**

**Paul Whitfield, P. Geo.**

Floods in future climates - process and statistical issues

**2:15-3:00 pm**

**Dr. Michael Church, P. Geo.**

"A sceptical view of river 'restoration'"

**Coffee: 3:00-3:30 pm**

**Volume 15, No. 2**

**3:30-5:00 pm**

**Charlie Harrison, P. Eng**

Fitzsimmons Run-Of-River Hydroelectric Project – Threading a needle through an Olympic venue

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## REVIEW OF STATEMENT OF LIMITATIONS

*By Doug VanDine P.Eng./P.Geo., Sharon Scott P.Geo., Eng.L., and Jack Whittles, P.Geo., Eng.L.*

### Background

At the 2007 DEGIFS (now DEGIRS) AGM, members expressed some concern over statements of limitations attached to reports produced by our members. As a result, the executive was tasked to review statements of limitations, then produce an article for ASPECT. Jack Whittles, an executive member at the time, and Doug VanDine reviewed and summarized a number of statements of limitations that were voluntarily submitted by members. In October 2009, Sharon Scott inherited Jack Whittles' executive position and asked Geoff Thiele, LLB, Director of Investigations and Discipline for APEGBC, to review the findings. This was completed in early December 2009.

### Review of Statements

Eight statements of limitations were submitted for review; of the eight, two came from sole practitioner consulting firms, two from small geotechnical consulting firms, two from medium-sized forestry consulting firms, and two from large geotechnical consulting firms.

The items addressed by the statements are briefly described in Table 1. A number of the items were found to be common to at least several of the statements



**Table 1 – Items included in statements of limitations.**

Item	Description
<i>Standard of care</i>	<ul style="list-style-type: none"> <li>how work was carried out, analyzed, etc., and how report was prepared</li> <li>in accordance with generally accepted geological/geotechnical consulting practices</li> <li>reference to guidelines, etc.</li> </ul>
<i>Complete report</i>	<ul style="list-style-type: none"> <li>report refers to written report plus all documents in project file</li> <li>client should refer to entire report</li> </ul>
<i>Purpose of report</i>	<ul style="list-style-type: none"> <li>prepared for specific purpose described by the client and reiterated in report</li> <li>applicability and reliability of results related to specific purpose</li> </ul>
<i>Use of report</i>	<ul style="list-style-type: none"> <li>to be used by client; no other party</li> <li>can be used by “approved user”, with consent of consultant and conditions</li> <li>report remains copyright material of consultant</li> <li>use by third party is sole responsibility of third party</li> </ul>
<i>Interpretation of the report</i>	<p>a) Nature and exactness of terrain descriptions</p> <ul style="list-style-type: none"> <li>based on standard of care (see first row of this table)</li> <li>judgmental in nature</li> <li>some inherent risk that some conditions will not be detected</li> <li>actual conditions may vary, and are subject to change</li> <li>client should disclose upfront if it wants better than “standard”</li> </ul> <p>b) Reliance on interpretation</p> <ul style="list-style-type: none"> <li>study and conclusions based on</li> </ul>

	<p>information provided, and on conditions observed at the time</p> <ul style="list-style-type: none"> <li>study and conclusions based on assumed standard forestry practices</li> <li>consultant does not accept responsibility for information provided as a result of misinformation provided</li> </ul> <p>c) Additional services</p> <ul style="list-style-type: none"> <li>consultant should carry out additional services, or work with other design consultants</li> <li>consultant should be retained to carry out field reviews during construction</li> </ul>
<i>Alternate report format</i>	<ul style="list-style-type: none"> <li>if electronic and hardcopy reports are submitted, hardcopy shall be considered final and legally binding</li> <li>electronic and hardcopies can only be modified by the consultant</li> <li>consultant is not responsible for client’s software</li> </ul>
<i>Accidental release of pollutants or hazardous substances</i>	<ul style="list-style-type: none"> <li>consultant is not responsible for any accidental release of pollutants or hazardous substances occurring during study</li> </ul>
<i>Sub-consultants and contractors</i>	<ul style="list-style-type: none"> <li>client holds consultant harmless for any work done by sub-consultants and contractors retained by consultant</li> </ul>
<i>Control of work and jobsite safety</i>	<ul style="list-style-type: none"> <li>client has control of work and jobsite safety</li> <li>consultant is only responsible for activities of its employees</li> </ul>
<i>Independent judgment of client</i>	<ul style="list-style-type: none"> <li>consultant is responsible for study, results and conclusions</li> <li>client is responsible for its own conclusions and actions</li> </ul>

Table 2 breaks down items included in each consultant’s statement of limitations.



**Table 2 – Items included in statements of limitations reviewed.**

Item Included	Consultant							
	A	B	C	D	E	F	G	H
Standard of care	Y	Y	Y	Y	Y	Y	Y	Y
Complete report	N	N	Y	N	N	N	Y	Y
Purpose of report	Y	Y	Y	Y	N	N	Y	Y
Use of report	N	Y	Y	N	Y	Y	Y	Y
Interpretation of report								
a) Terrain descriptions	Y	Y	Y	Y	Y	Y	Y	Y
b) Reliance on interpretation	N	Y	Y	Y	Y	Y	Y	Y
c) Additional services	N	N	Y	N	N	N	Y	Y
Alternate report format	N	N	N	N	N	N	Y	N
Accidental release of hazardous substances	N	N	N	N	N	N	N	Y
Sub-consultants and contractors	N	N	N	N	N	N	N	Y
Control of work and jobsite safety	N	N	N	N	N	N	N	Y
Judgment of client	N	N	N	N	N	N	N	Y

\*Consultant columns:

A & B - Sole practitioner consulting firm

C & D - Small geotechnical consulting firm

E & F - Medium-size forestry consulting firm

G & H - Large geotechnical consulting firm

Y=yes and N=no

None of the reviewed statements contained all 10 items. The four most common items were:

- standard of care,
- purpose of report,
- use of report, and

- interpretation of report that includes a description of the terrain and a reliance on that interpretation.

Keep in mind that some larger companies have statements of limitations that fulfill company directives and can contain items that are related to business areas unrelated to resource-based activities.

### Assessment and Discussion

The data presented above, along with copies of the original eight statement of limitations were reviewed by Geoff Thiele of APEGBC who commented that "...some items were in the Limitations that I would expect to see in the body of the report, such as purpose of the report, description of the work undertaken, limitations of the conclusions that can be drawn due to the work (not) undertaken, and risks. These issues may be reiterated in the Limitations and Disclaimer, but really should be in the body of the report so there is no doubt about them." He also indicated that a limitation of liability clause should be in the consultants' written contract.

Geoff noted that ACEC (Association of Consulting Engineers of Canada) has just issued a revised Owner-Consultant Agreement and Guideline which may be of interest to some. The document can be found at the following URL [http://www.acec.ca/pubs\\_download/101-Doc\\_31.pdf](http://www.acec.ca/pubs_download/101-Doc_31.pdf).

Members should be aware that items in a contract take precedence over items in a statement of limitation.

The purpose of this article is to provide members information to think about use in their practice and should be read as an opinion article, rather than a peer-reviewed or APEGBC-endorsed article.



## 2010 Forest Engineering Award of Excellence

The 2010 Forest Engineering Award of Excellence was awarded at the ABCFP Expo on April 8, 2010. The winner this year was Glen Beaton, P. Eng.

The next award will be presented at the 2011 APEGBC meeting in October 2011.

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## CONTINUING PROFESSIONAL DEVELOPMENT OPPORTUNITIES

*From APEGBC website*

### Climate Change and Water Management

*July 23, 2010 - Vancouver, BC*

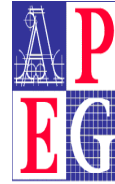
The seminar will begin with an overview on climate change facts and focus on the important set of feedbacks that may help our understanding of the problem scale. In addition some practical issues related to climate change and its impact on water resources engineering practice will be addressed. The following presentations will focus on two examples of using a systems approach in addressing the practical issues related to climate change and its impact on water resources engineering practice.

The second presentation is aimed at answering the question: "How do the expected paths of climate, environmental, and economic variables change when feedbacks between the economy and the environment are more fully modeled?" The presentation describes a new, horizontally-integrated assessment model called *ANEMI* – an ancient Greek term for the four winds, heralds of the four seasons – that links physical systems such as the climate and hydrological- and carbon cycles with the socio-economic systems that change them: the economy, energy, land use, population change, and water use and quality. The modelling methodology used here, called

system dynamics, represents feedbacks explicitly, and focuses on the effects of system structure and feedback connections in determining model behaviour. Further, it attempts to balance socio-economic with natural systems, and thus concentrates exclusively neither on policy development nor on improving understanding of natural processes, as do other Integrated Assessment Models. Instead, this work aims to provide a middle ground that permits simulation of the effects of socio-economic policies or of scientific uncertainties on the entire system. The focus of the work to be presented is on how feedbacks and system structure as a whole affect the evolution of the society-biosphere-climate system. Its result is a greater insight into system structure and function, rather than specific predictions.

The third presentation provides an example that deals with the question: What are the impacts of climate change on water resources management on local scale? An original inverse approach is developed to assess these impacts. The developed approach starts with the analysis of existing guidelines and management practices in a river basin with respect to critical hydrological exposures that may lead to failure of the water resources system or parts thereof. In the next step the critical hydrologic exposures (flood levels for example) are transformed into corresponding critical meteorological conditions (extreme precipitation events for example). These local weather scenarios are then statistically linked to possible large-scale climate conditions that are available from the Global Circulation Models. The developed procedure allows for the assessment of the vulnerability of river basins with respect to climate forcing. It also provides a tool for identifying the spatial distribution of the vulnerability and risk

<http://www.apeg.bc.ca/prodev/events/climate%20change%20water%20management.html>



## **Water Distribution Systems Advanced Hydraulic Modeling**

**July 29, 2010 - Vancouver, BC**

Participants will be introduced to the following advanced topics.

**Extended Period Simulations** - What are the advantages of extended period simulations over steady state simulations? What types of input data are important when building your EPS model? How can collecting meaningful and accurate field data save you time when calibrating your EPS model?

**Water Quality Modeling** - Why should I model water quality? What field data do I need to build my water quality model? How can my water quality model be used to validate my hydraulic model? What types of water quality simulations can I perform?

**Demand Allocation** - What is the importance of proper demand allocation? What is the best method for allocating demand in my model? What are the best sources of demand data? How should I be allocating diurnal demand patterns in the model? How should I predict future demands?

**Model Calibration** - What parameters should I adjust? When and by how much should I adjust them? What sources of input data do I need to properly calibrate my model? How accurate does the calibration need to be? What are the steps for calibrating my water model?

**Planning System Improvements** - How should I go about planning infrastructure upgrades? How do I size pipes, pumps and storage facilities for future scenarios? How should I evaluate operating strategies?

To reinforce concepts learned during the course, participants will engage in hands-on EPANET tutorials for each section of the training. **Participants must bring their own laptop.**

[http://www.apeg.bc.ca/prodev/events/Advanced\\_Hydraulic\\_Modeling%20.html](http://www.apeg.bc.ca/prodev/events/Advanced_Hydraulic_Modeling%20.html)

## **Current Practice in Acid Rock Drainage Prediction**

**August 10, 2010 - Vancouver, BC**

**October 1, 2010 - Victoria, BC**

Acid rock drainage (ARD) and the associated process of metal leaching (ML) can be important

issues at any construction project where rock is exposed to flowing water. This seminar will provide an introduction to the methods available to predict the reactivity of rock and the chemistry of drainage in contact with rock, and the use of the results to identify technologies to address ML/ARD. The seminar will appeal primarily to engineers and geoscientists working in the mining, transportation and utility industries. The following topics will also be covered:

Why is this topic important?

Overview of regulatory setting in British Columbia

Brief chemistry background (pH, acidity, metals and other potential contaminants)

Relevant geological and mineralogical background

Description and origin of metal leaching and acid rock drainage (ML/ARD)

Concepts for mitigation of ML/ARD

Overall approach to prediction of ML/ARD

Designing a prediction program

Prediction tools



Interpreting prediction data

Hands-on opportunities to examine rock and mineral samples

Vancouver

[http://www.apeg.bc.ca/prodev/events/ard\\_van\\_2010.html](http://www.apeg.bc.ca/prodev/events/ard_van_2010.html)

Victoria

[http://www.apeg.bc.ca/prodev/events/ard\\_victoria\\_2010.html](http://www.apeg.bc.ca/prodev/events/ard_victoria_2010.html)

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

**August 10, 2010 - Kelowna, BC**

**August 19, 2010 - Castlegar, BC**

**September 23, 2010 - 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!

## **Kelowna**

[http://www.apeg.bc.ca/prodev/events/erosion\\_sediment\\_aug10kelowna.html](http://www.apeg.bc.ca/prodev/events/erosion_sediment_aug10kelowna.html)

## **Castlegar**

[http://www.apeg.bc.ca/prodev/events/erosion\\_sediment\\_aug10castlegar.html](http://www.apeg.bc.ca/prodev/events/erosion_sediment_aug10castlegar.html)

## **Vancouver**

[http://www.apeg.bc.ca/prodev/events/erosion\\_sediment\\_sept10van.html](http://www.apeg.bc.ca/prodev/events/erosion_sediment_sept10van.html)

## **Physical Controls on Water Quality in Lakes and Reservoirs**

**September 22, 2010 - Vancouver, BC**

The focus of this course is physical processes that control water quality in standing water bodies (Lakes, tailings ponds, reservoirs, etc...). This course is intended for professionals confronted with managing water quality, for example due the impact of discharges into a water body or for management of a reservoir in the long term.

The objective of this course is for participants to develop an awareness and understanding of physical transport processes in water bodies and how to characterize and model the evolution of the quality of the water in that water body. This will be achieved by presenting:

1. An overview of relevant theory of physical processes,
2. Field data collection and processing techniques used to characterize these processes,
3. An introduction to a range of models used to predict the behaviour of standing water bodies,
4. Examples of application of these concepts through case studies.

All background information needed to understand the fundamental concepts is provided.

[http://www.apeg.bc.ca/prodev/events/water\\_quality.html](http://www.apeg.bc.ca/prodev/events/water_quality.html)



## **ANNOUNCEMENTS**

### **APEGBC/ABCFP Guidelines for Professional Services in the Forest Sector-Forest Roads**

At the June meeting of the APEGBC/ABCFP JPB, the document titled: "APEGBC/ABCFP Guidelines for Professional Services in the Forest Sector-Forest Roads" was approved for release to the general membership for comments.

The document is located on the DEGIRS website.

**Members are requested to review the document posted and to please provide any comments to those named below by end of day August 6, 2010.**

Peter Mitchell, P.Eng.  
APEGBC

[mitchell@apeg.bc.ca](mailto:mitchell@apeg.bc.ca)

or

Mike Larock, RPF  
APEGBC ABCFP

[mlarock@abcfp.ca](mailto:mlarock@abcfp.ca)

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### **APEGBC/ABCFP Guidelines for Professional Services in the Forest Sector –Terrain Stability**

In addition at their meeting in June the JPB also approved submitting the APEGBC/ABCFP Guidelines for Professional Services in the Forest Sector –Terrain Stability to the APEGBC and ABCFP Councils for approval pending final editorial and legal review.

Upon approval of the APEGBC/ABCFP Guidelines for Professional Services in the Forest Sector –Terrain Stability Assessments by the

APEGBC and ABCFP Councils the skill sets contained in the document will allow the limited licences in engineering, issued to P. Geo's as a short term solution to the requirements under the OH&S Regs., to expire.

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### **Volunteer Opportunities:**

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!



## Who We Are

### DEGIRS EXECUTIVE 2009/10

Shawn Vokey, P. Eng., Chair  
Ph. (250) 489-2217  
Email: [svokey@intref.bc.ca](mailto:svokey@intref.bc.ca)

Sharon Scott, P.Geo., Eng. L., Vice-Chair and Workshops/AGM Coordinator  
Ph. (250) 472-2115  
Email: [sharonkscott@shaw.ca](mailto:sharonkscott@shaw.ca)

Joe Kenny, P. Eng., Secretary  
Ph. (250) 565-6188  
Email: [Joseph.Kenny@gov.bc.ca](mailto:Joseph.Kenny@gov.bc.ca)

Emily Davidson, P. Eng., Treasurer  
Ph. (250) 847-4040 / (250) 847-4160  
Email: [edavidson@mcelhanney.com](mailto:edavidson@mcelhanney.com)

David Campbell, P. Geo, Bursary Coordinator  
Ph. (250) 751-7262 / Fx. (250) 751-7197  
Email: [David.Campbell@gov.bc.ca](mailto:David.Campbell@gov.bc.ca)

Patrick Hasevoets, P.Geo., Workshops/AGM Coordinator  
Ph. (250) 920-5540  
Email: [thirdrockgeo@shaw.ca](mailto:thirdrockgeo@shaw.ca)

Les Theissen, P.Eng., Website Coordinator  
Ph. (250) 551-0654 / Fx. (250) 352-3664  
Email: [les@sntang.ca](mailto:les@sntang.ca)

Jeremy Araki, P. Eng., Past Chair, Affiliate Representative and Forest Engineering Award of Excellence  
Ph. (250) 926-9177 ext. 7 / Fx. (250) 926-9188  
Email: [jaraki@onsite-eng.ca](mailto:jaraki@onsite-eng.ca)

### WEB PAGE CONTACTS

Les Theissen, P.Eng.,  
Ph. (250) 551-0654 / Fx. (250) 352-3664  
Email: [les@sntang.ca](mailto:les@sntang.ca)

### APEGBC LIAISON

Peter Mitchell, P.Eng., APEGBC Liaison, Alternate JPB Liaison  
Ph. (604) 430-8035 / Fx. (604) 430-8085  
Email: [mitchell@apeg.bc.ca](mailto:mitchell@apeg.bc.ca)

### JOINT PRACTICES BOARD LIAISON

Julien Henley, P.Eng.,  
Ph. (604) 293-1411 / Fx. (604) 291-6163  
Email: [henleyj@ae.ca](mailto:henleyj@ae.ca)

### EDITORIAL BOARD

Tim Stokes, P.Geo.  
Ph: (250) 756-2456  
Email: [tstokes@island.net](mailto:tstokes@island.net)

Shelley Higman, P.Eng./P.Geo.  
Ph: (250) 756-2256 / Fx: (250) 756-2686  
Email: [shigman@eba.ca](mailto:shigman@eba.ca)

Eric McQuarrie, P.Eng.  
Ph: Phone: (778) 433-3964  
Email: [eric.mcquarrie@shaw.ca](mailto:eric.mcquarrie@shaw.ca)

Bob Patrick, P.Eng.  
Ph: (250) 756-2256 / Fx: (250) 756-2686  
Email: [bpatrick@eba.ca](mailto:bpatrick@eba.ca)

Kevin Turner, P.Eng.  
Ph. (250) 434-6656 / Fx. (250) 314-9678  
Email: [kpturner.westrek@shaw.ca](mailto:kpturner.westrek@shaw.ca)

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### ASPECT SUBMISSIONS

LAST DATE FOR SUBMISSIONS TO ASPECT	NEWSLETTER RELEASE DATE
September 15, 2010	September 30, 2010
December 1, 2010	December 15, 2010

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

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