

ASPECT

Definition: `as – pekt / 1. a position facing a particular direction
2. appearance to the eye & mind.

THE DEGIFS NEWSLETTER

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The 'ED-itor In Training – ORIAL'

Olympics – just an excuse to widen a highway and be graced with a slick, skookum, shiny, smokin', drinkin', curlin' rink. Mad Cow – we're talking one, measly, mere, mean, moody bovine. A handshake between Israel and Palestine – it's about time those two got along. Wars, Schmores. A farewell to Katherine Hepburn – I'm sure she and Sir Roman Holiday Peck are enjoying a heavenly match of cloud bowling around their Oscar pins. Blah blah blah.

BUT if you REALLY want to get dialed into what's what and who's who in Whoville get to know the nine members who are keen to represent you, me, we, the DEGIFS clan, in the four available Executive positions. Take control of your DEGIFS destiny (at least for the next two years) and become acquainted with the views and policies of these intrepid individuals whom are willing to sacrifice many non-paid hours for the good of our division. Stand up (I am standing) and not only make your vote count but embrace that vote, be at one with it. Carpe your DEGIFS Executive Electoral Diem!

Only 96 more shopping days until the votes must be cast!

And for goodness sake, remember to stop and inhale the devil's club - it's field season!

Tongue and cheek, foot in mouth,

Julie (former Ritalin poster child, 1977)

p.s. Speaking of bad beef – Can someone out there please explain how a Bachelor of Science degree (and even a M.Sc. degree) can be obtained when one completes the Physical Geography program at the University of Calgary (for example) without taking one chemistry, biology, physics or math course?

DIVISION OF ENGINEERS AND GEOSCIENTISTS IN THE FOREST SECTOR



2003 DEGIFS EXECUTIVE ELECTION

From the DEGIFS Executive Nominating Committee

In accordance with the DEGIFS Terms of Reference, a Nominating Committee has been struck to propose candidates for the 2003 election of the DEGIFS Executive. The Terms of Reference specify the Nominating Committee must consist of the Past Chair and two members. This year, the committee consisted of Kevin Turner, P.Eng., Acting Past Chair, Tim Smith, P.Geo., and Dave McDougall, P.Eng.

The Terms of Reference specify the Executive must consist of the Past Chair and 7 members elected by the DEGIFS members, for a total of 8 members. The term of the elected Executive member is two years. Members who were elected last year and are continuing include:

- Doug Nicol, P.Eng.
- Calvin VanBuskirk, P.Eng. / P.Geo.
- Bill Grainger, P.Geo.

Executive Members who are completing their terms this year include:

- Brian Chow, P.Eng.
- Eric McQuarrie, P.Eng. (current Chair)
- Doug Dewar, P.Eng.
- Mike Greig, P.Eng.

Therefore, 4 positions require filling for the DEGIFS Executive next year. In selecting potential candidates, the Nominating Committee attempted to:

- balance representation by geographical region;
- balance representation by professional designation, taking into consideration the professional designation of the Members completing their terms; and
- include representation for terrain, road, and bridge specialists.

The membership has shown considerable interest in standing for election to the Executive this year. The following Members have agreed to stand for the 4 available positions:

- Heather Blyth, P.Geo., Blyth Consulting Ltd., Comox
- Tim Dunne, RPF, P.Eng., Forsite Management Consultants Ltd., Salmon Arm

- Carl Erickson, P.Eng., BC Ministry of Forests, Prince George
- Ron Arksey, P.Geo., Contour Geoscience Ltd., Comox
- Mark Goldbach, P.Eng., Golder Associates Ltd., Chilliwack
- Neil Froc, P.Eng., Mountain Geoscience Inc., Lindell Beach
- Don Williams, P.Eng., AllNorth Consultants Limited, Prince George
- James Hogarth, P.Eng., Piteau Associates, Squamish
- Deepali Filatow, P.Geo., BC Ministry of Sustainable Resource Management, Kelowna
- Brian Chow, P.Eng., BC Ministry of Forests, Victoria

Since there are more candidates than positions, a letter ballot will be required to fill the positions. In accordance with the DEGIFS Terms of Reference, this list of nominees must be published in Aspect at least 90 days prior to the DEGIFS Annual General Meeting, which will be held on October 23, 2003, in Penticton, BC.

Under the Terms of Reference, additional nominees can be made, in writing, by a minimum of two DEGIFS Members. These nominations, signed by the Members making the nomination and accompanied by written consent of the nominees, shall be given to the DEGIFS Secretary c/o Peter Mitchell, P.Eng. at APEGBC, no later than 30 days after publication of the list of candidates nominated by the Nominating Committee.

Affiliate members are not eligible to vote or hold office.

Critical dates for the election of the Executive members include:

- Deadline for receipt of write-in nominations: **August 17, 2003.**
- Letter ballots to be sent to membership: **September 11, 2003.**
- Deadline for receipt of ballots: **October 8, 2003.**
- Ballots to be counted prior to: **October 13, 2003** (falls on a statutory holiday).
- Membership to be notified of election results at DEGIFS Annual General Meeting, Penticton, BC on **October 23, 2003.**

Additional details regarding election protocols can be found in the Terms of Reference, published on the DEGIFS web site at www.degifs.com.



DEGIFS BURSARIES AWARDED!

The DEGIFS Bursary subcommittee evaluated six submissions for 2003. The three members of the subcommittee evaluated submissions using the criteria specified in the Bursary Description. DEGIFS Executive endorsed the subcommittee recommendation that awards for \$750 each be made to **Derek Kinakin** and **Mihai Pavel**.

Derek Kinakin is an M.Sc. student at Simon Fraser University. He is involved in terrain analysis and forestry geotechnics research. He is intending to eventually be registered with APEGBC.

Mihai Pavel is a Ph.D. candidate at the University of British Columbia. He has a degree from Romania in Forest Engineering and received a Master of Forestry from UBC in 1997. He will complete his thesis defense sometime this year for his doctorate degree. He is currently employed with FERIC in the Harvest Engineering Group.

All students who submitted applications shall be provided with a one year membership to DEGIFS. Some of the articles submitted as part of the application criteria will be published in upcoming issues of Aspect.

DEGIFS would like to thank all of those who submitted and wish all the best of success in the future.

EXECUTIVE UPDATE

Eric McQuarrie, P.Eng., DEGIFS Chair

This the first of what hopefully becomes a regular Aspect article about what your executive has been working on. At the very least, it serves as a mid-term update. Since this is the first update of the year, there is a long backlog of items to discuss.

The executive has been involved in a number of regular activities that occur every year. Each year, DEGIFS awards bursaries to students in programs related to forest engineering, geoscience, or geotechnique. This year, two bursaries of \$750 were awarded to Derek Kinakin and Mihai Pavel (see announcement in this issue!).

All DEGIFS members are aware of the hard work the executive does each year planning two days of presentations at the APEGBC AGM in October. The DEGIFS sessions at the AGM has enjoyed the highest participation rate. This year is no different and some great talks are planned, including a full-day session on landslide risk assessments and one half day on avalanche assessments. In addition to the AGM, DEGIFS coordinated another successful workshop on innovative road construction techniques; this year held in Vernon in May.

As in past years, your DEGIFS Executive has constantly reviewed the changes to the forest practices regulations. We liaised with the Ministry of Forests regarding these changes and their potential impacts on engineers and geoscientists. In March, we issued a letter to MoF commenting on, and recommending specific changes to, the interim *Forest Road, Operational and Site Planning, and Timber Harvesting and Silviculture Practices Regulations*. DEGIFS is also currently reviewing draft guidelines regarding bridge engineering prepared by the Joint Practices Board.

Another recent task taken on by your executive is a review of BC Timber Sales' consultant selection criteria and methodology. As many of you are unfortunately aware, BC Timber Sales typically award professional engineering and geoscience services based solely on price. Some recent requests for tenders have lumped the terrain stability assessments in with the cutblock and road layout without any qualifications required of the terrain specialists. DEGIFS is working with the Consulting Engineers of BC and MoF to improve BC Timber Sales professional services contracting practices. We hope to update you on this matter in the fall.

The Risk Task Force was resurrected this year to provide guidance to the MOF and its consultants in the preparation of a Landslide Risk Case Studies document. The results of this work will form the basis for one day's worth of presentations at October's AGM.

The largest undertaking by DEGIFS over the past year has been the Terrain Stability Assessment Guidelines. A very preliminary version of this document was presented at the 2002 AGM. Since then, the committee has spent considerable time and effort preparing a set of guidelines that will establish the



standards of professional practice for terrain stability assessments in the forest sector. This document is not "Terrain Assessments for Dummies" or a cookbook. As professionals, you have both the right and the obligation to apply professional judgement in your work. There are many technical papers guiding us in our work and helping us stay current with innovations in our various technical disciplines. These guidelines provide professional guidance rather than technical guidance to help you meet your professional responsibilities.

These guidelines will provide APEGBC with a measuring stick for future professional practice reviews and investigations. I urge all practitioners to carefully read these guidelines and conduct a self-audit or practice review. Hopefully, most of our members will find they need only minor refinements to their work procedures. Perhaps more importantly, the guidelines attempt to define the role the terrain stability professional within the less-regulated forest sector. They stipulate what terrain stability professionals are not responsible for and should help protect our members against baseless complaints and unreasonable expectations.

A draft of these guidelines was recently released to MoF, the JPB, ABCPF and BCIA for their review and comments. These guidelines will ultimately be presented to APEGBC Council for their approval. The long-range plan is for these guidelines to be a model for other areas of professional engineering and geoscience in the forest sector. A brief outline of the guidelines will be presented at the AGM in October, hopefully by which time they will be published on the APEGBC web site.

This is but a brief summary of your executive's major accomplishments over the past eight months. As you can see, your executive has been very busy working on your behalf and representing your interests in many different avenues. DEGIFS is just a small division within APEGBC, but we are the most active division. To remain this active, we need broader participation from our membership. If you would like to become more involved in DEGIFS, or if you have issues affecting our professions, I urge you to contact me or any other DEGIFS Executive member.

APEGBC AGM – DEGIFS PROFESSIONAL DEVELOPMENT SESSIONS
OCTOBER 22-24, 2003
PENTICTON, BRITISH COLUMBIA

SPECIAL TECHNICAL TOUR
WEDNESDAY, OCTOBER 22, 2003

Post-Glacial Geomorphic Development of the Okanagan Lake Valley and Winery Tour

8:00 am – 4:00 pm

Division of Engineers and Geoscientists in the Forest Sector

Leader: Murray A. Roed, PEng

Combining stops at roadside viewpoints and short hikes, this trip will guide you through the events and processes that have affected the Okanagan Valley, beginning when the ice melted through to today. A thumbnail "sketch" is given for Precambrian, Paleozoic, Mesozoic and Cenozoic time, but most stops will focus on the nature and origin of surficial deposits and the geomorphic evolution of the present landscape. A number of geotechnical aspects such as large silt block mass movements and erosion will be examined.

ENGINEERING AND GEOSCIENCE IN THE FOREST SECTOR

Sponsored by the Division of Engineers and Geoscientists in the Forest Sector

THURSDAY, OCTOBER 23, 2003

A1

Landslide Hazard and Risk Case Histories -
Overview of BCMOF Landslide Hazard and Risk Case Histories Document

9:00 – 10:15 am

Speakers: Mike Wise, PEng, Doug VanDine, PEng, PGeo, Glenn Moore, PEng

This presentation will give an overview of the BCMOF Landslide Hazard and Risk Case Histories Document. The document, in preparation, will assist Engineers and Geologists working in the forest sector to better understand and use concepts of landslide hazard and risk. The presentation will set the stage for the following presentations in the session, and will present general hazard and risk concepts, the risk management decision-making framework, technical terms and guidelines for judgmental probability analysis and assessment.



B1A

Landslide Hazard and Risk Case Histories -
Overview of BCMOF Landslide Hazard and Risk Case
Histories Document (*Continued*)

10:45 – 11:15 am

Speakers: Mike Wise, PEng, Doug Vandine, PEng,
PGeo, Glenn Moore, PEng

B1B

Landslide Hazard and Risk Case Histories -
Qualitative Risk Analyses for Slope Hazards in The
Oliver Creek Drainage

11:15 am - Noon

Speaker: Tim Smith, PGeo

Slope hazards in the Oliver Creek drainage include
both landslides and Class III and IV snow avalanches.
This presentation will detail the risk analysis that was
undertaken for these slopes hazards following the
proposed clearcut harvesting. Management options
were developed in conjunction with License Holder
and the terrain stability professional the based on the
results of this risk analysis. These options will be
discussed.

C1A

Landslide Hazard and Risk Case Histories - Summit
Creek Debris Flow and Retaining Wall Risk Analysis

1:45 – 2:30 pm

Speaker: Doug Nicol, PEng

A Forest Service Road (FSR) fill slope failure initiated
a debris flow, which subsequently impacted a highway.
The repair of the FSR required consideration of
alternatives that were economical and which provided
an appropriate level of risk reduction. This
presentation discusses the details of the road
reconstruction and associated level of residual risk.

C1B

Landslide Hazard and Risk Case Histories – Partial
Risk Analysis of a Coastal Gully

2:30 – 3:00 pm

Speaker: Tom Millard, PGeo

A coastal gully is planned for harvesting, but slope
stability concerns need to be addressed. A method of
estimating the probability of a debris flow initiating in
the gully, and then reaching a fish stream, will be
presented.

D1A

Landslide Hazard and Risk Case Histories –
Tommy Creek

3:30 – 4:15 pm

Speaker: Calvin VanBuskirk, P.Eng.

This case study demonstrates the benefits of involving
geotechnical-engineering specialists in forest road
construction projects, from planning and route
selection through to construction. In areas of
challenging and/or complex terrain, having
geotechnical engineers involved at the time of route
selection can significantly reduce both the cost and
risk associated with the forest road development.

D1B

Landslide Hazard and Risk Case Histories – Case 5
Hummingbird and Mara Creeks

4:15 – 4:45 pm

Speaker: Neil Singh, PEng

Debris flow hazard from Hummingbird and Mara
Creeks is quantified by constructing magnitude-
recurrence relationships based on available evidence.
Risk to Swansea Point is evaluated and decision
analysis methodology using Bayesian decision theory
is presented.

ENGINEERING AND GEOSCIENCE IN THE FOREST SECTOR

*Sponsored by the Division of Engineers and
Geoscientists in the Forest Sector*

FRIDAY, OCTOBER 24, 2003

E1A

Landslides: Meager Creek Lahars

9:00 – 9:30 am

Speaker: Pierre Friele, PGeo

Recent investigations in Meager Creek, a watershed
draining the south side of the Meager Creek volcanic
complex, have documented two large flank collapses
from Pylon Peak involving a combined volume of 6×10^9
 m^3 of debris. The landslides each generated large
lahars that may have extended downstream as far as
Pemberton Meadows. Recent drilling work in
Pemberton Meadows has yielded direct evidence for
three lahar deposits up to 55 km downstream from the
volcano.



E1B

Guidelines For Snow Avalanche Mapping And Risk Determination In Canada

9:30 – 10:15 am

Speaker: Alan Jones, PEng

The Canadian Avalanche Association published two documents in 2002: *Land Managers Guide to Snow Avalanche Hazards in Canada*; and its technical supplement *Guidelines for Snow Avalanche Risk Determination and Mapping in Canada*. Ideally, these guidelines will be adopted as minimum standards throughout Canada, resulting in more consistent decision-making and greater safety for snow avalanche hazards. This presentation describes the content and potential applications of these guidelines, and how they may affect the professional engineering and geoscience fields in Canada.

F1A

Managing Snow Avalanche Risk in B.C.'s Forested Terrain: Strategies, Case Histories, and Emerging Issues for the Professional Engineer and Geoscientist

10:45 – 11:15 am

Speaker: Frank Baumann, PEng

This presentation will provide strategies and case histories that will help the qualified registered professional deal with avalanche risk, both in forestry settings, as well as for other resource and land development, and also to identify some of the emerging issues that need to be considered.

F1B

Avalanche Assessments – Case Study

11:15 am – Noon

Speaker: Chris Stethem

This presentation will provide a summary of an avalanche assessment.

G1

Professional Practice Under the New Code

1:45 – 3:00 pm

Speaker: Don Dobson, PEng, Roberta Reader

What is the role of the professional under the new results-based Code? And how does this role relate to the test of due diligence? This session discusses the implications of the new Code – and the due diligence test – for professionals, including engineers and geoscientists, and for the professional associations that are responsible for the conduct and competence of these professionals.

H1A

Seeing the Forest for the Trees: Identifying Hydrogeomorphic Hazards for Forestry on Fans

3:30 – 4:15 pm

Speakers: Dave Wilford, PGeo, RPF, Matt Sakals, GIT, PAg

Conventional forestry practices on fans have been demonstrated to lead to environmental impacts and losses to forestry investments. This presentation will introduce a hazard classification for forestry on fans that includes predictive hazard models, and aerial photograph and site features. The development of appropriate forestry prescriptions will be discussed as well as the applicability of results to regions beyond the study area..

H1B

TSFA Guideline Committee Report

4:15 – 4:45 pm

Speaker: Eric McQuarrie, PEng

A presentation of the draft TSFA Guidelines as prepared by the DEGIFS TSFA Guideline Committee.

For more information on the AGM, please contact Doug Dewar at 250-563-9579.

DEGIFS.COM

When is the last time you checked out the DEGIFS website? Perhaps you've never ventured into this quadrant of cyberspace. Did you know....

- The DEGIFS web-site contains over 100 links to web-sites relevant to DEGIFS members, including: climate/water information, geological information, geomorphology and air photo interpretation, and landslides and terrain stability;
- You can view (and post) announcements to upcoming events and courses;
- You can initiate a web-based discussion group;
- You can review minutes of past monthly executive meetings;
- You can post employment opportunities and resumes; and
- You can even view past issues of the Aspect newsletter!

So, if you haven't checked it out before now, make sure you have a look and check back regularly for updates.



DEGIFS

The Division of Engineers and Geoscientists in the Forest Sector

www.degifs.com

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Professional Engineers
and Geoscientists of BC

www.apeg.bc.ca

PROFESSIONAL LIABILITY INSURANCE

DEGIFS Members are reminded of their responsibilities under Bylaw 17 (a), which states:

“Before entering into an agreement to provide professional engineering or professional geoscience services to the public, a member, licensee or certificate holder must notify the client, in writing, whether or not professional liability insurance is held and whether that insurance is applicable to the services in question. The note shall include a provision for an acknowledgement of the advice to be signed by the client.”

Many clients require proof of insurance as part of their contract. However, even if proof of insurance is not required, APEGBC Members are still required to notify the client whether or not they carry professional liability insurance.

The Secondary Professional Liability Insurance Program that APEGBC members recently approved does not qualify as professional liability insurance in this context. This insurance program does not cover corporations, sole proprietors, partners or directors of companies who's primary business involves the provision of consulting engineering and geoscience services. In order to secure errors and omissions coverage as referred to in bylaw 17 (a), corporations, sole proprietors, and other entities providing consulting engineering and geoscience must retain their own primary professional liability insurance.

For more information regarding the secondary professional liability insurance coverage, please refer to www.apeg.bc.ca/members/sec-liability-ins.html.



Who we are!

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Do Not Forget!!!

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MAR. 8, 2003	MAR. 29, 2003
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SEPT. 6, 2003	SEPT. 27, 2003
NOV. 22, 2003	DEC. 13, 2003

Electronic submissions in **Word format (only)** should be made to Bruce Thomson by the date listed above (no exceptions) (bruce.thomson@gems3.gov.bc.ca)

Refer to *Guidelines for Submission* on the website for submission requirements.