

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 “Editorial” – Ramblings of a Geotech

Rebuilding New Orleans and the surrounding areas in the wake of Hurricane Katrina might lead to an increased demand for softwood lumber on the already tapped out United States supply. Therefore, prices will go up and more wood will be shipped across the Canadian border to supply the huge demand. An indirect effect is the potential for more geoscience and engineering work in the forest to help supply this demand.

Obviously, many considered the risk of living below sea level in a large city like New Orleans acceptable, and why not, when modern technology and information is taken into account. Otherwise, why would people live there? However, when the “unthinkable” happened, and Hurricane Katrina created a storm surge that broke through protective dykes, residents soon realized that an adequate emergency plan wasn't in place. A recent estimate of insurance claims in New Orleans for one large insurance corporation is \$US 40 Billion. Estimates for the total cost to rebuild New Orleans are in excess of \$US 100 Billion. Imagine, now, the impact of damage done to those that didn't have insurance.

Since softwood tariffs total about \$5 Billion and since we can speculate that the Canadian forest industry is making good money despite the tariffs, perhaps the Canadian and US industries can agree to donate the money collected in tariffs towards rebuilding sectors of New Orleans that didn't have insurance. Perhaps this could “clean the slate”. I believe that in the face of adversity a gesture of good faith of this magnitude has the potential to end the softwood lumber war. Well, we can hope.

*Editors Footnote: CONGRATULATIONS TO OUR VERY OWN TIM SMITH, P.Ge..
FOR BEING ELECTED AS APEGBC'S NEW VICE PRESIDENT*

Rob Wilson, Editor

DIVISION OF ENGINEERS AND GEOSCIENTISTS IN THE FOREST SECTOR

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UP-CLOSE and PROFESSIONAL DEGIFS MEMBER PROFILE

DEGIFS Member:

Shelley Higman, P.Eng., P.Geo.

*Environmental Management Specialist,
Island Timberlands, Nanaimo, BC.*

Interviewer: Julie Orban



Photo: Shelley Higman standing on an unstable slope.

Who are you and how did you get where you are?

Shelley works as an Environmental Management Specialist for Island Timberlands based in Cassidy, BC (I think that's somewhere near Nanaimo).

She graduated from UBC in 1990 with an undergraduate degree in geological engineering. She promptly ventured into the post-graduate world and obtained a M.Sc. in Volcanology and Igneous Petrology. Shelley had aspirations to pursue her Ph.D. in studying these conical creatures but she was disillusioned with all the academic politics and ended

up working for the Geological Survey of Canada (GSC) instead (I guess the politics weren't quite as severe there). Perhaps one day when the timing is right and the stars align, Shelly will pursue a Ph.D. but likely with more of a focus on the geological hazard of mass wasting instead of volcanology.

Shortly into her tenure with the GSC she was presented an opportunity to work with MacMillan Bloedel on Vancouver Island that she couldn't refuse. This opportunity allowed her to apply her engineering and geological skill sets while pursuing her passion for research and protecting the environment.

Over the past 11 years she has weathered the transition storm as MacMillan Bloedel was acquired by Weyerhaeuser, which was later acquired by Island Timberlands (a relatively small division of the large company Brascan). She has found this dynamic transition process very valuable as she was able to glean useful knowledge and skills from a moderate, large, and small(ish) company! She finds it particularly interesting to apply big company knowledge and lessons in the relatively smaller company she is employed by now.

What do you do?

At work Shelley is most definitely a Jill of all trades. She wears many hats, which are all very large. She is responsible for management of soil and water conservation PLUS she manages significant engineering projects (e.g., bridges, roads, landfills) PLUS she is in charge of the environmental side of Island Timberlands business (i.e., contaminated sites, hazardous materials and spill response.) For such a petit person she has a heavy yoke.

So it makes sense that she needs a stress outlet. Shelley finds this through her adrenalin pursuits. She is a speed demon and seeks her thrills while out mountain biking, motor-cross racing and downhill skiing.

What has been your most favorite project experience?

Shelley found it tough to narrow down her favourite project as she has worked on many diverse interesting projects. BUT I managed to talk her down to one she started working on as an EIT, and still works on. This project was a remediation project, which required treatment of woodwastes from a landfill that was



leaching into a fish-bearing stream. She was given the opportunity to work with many talented individuals to create a wetland to treat the leachate prior to it reaching the adjacent stream. Although this sort of remediation approach had been tested at mine tailing sites, this was the first time it was attempted outside of the mining environment. The objective was to treat both metals and the organic acids via wetland construction. Not only did they succeed in treating the leachate, they exceeded their original expectations. This was both a cost-effective method and environmentally sound solution for treatment that will continue the treatment at no cost long after the landfill is not operating. An added bonus of this type of treatment was the habitat it created for all sorts of wildlife (e.g. ducks, owls, pesky beavers, etc.). Her satisfaction in this project comes from the evolution of the site starting as a contaminated area that wasn't managed to being a site that had a natural systematic approach to effective gas removal and leachate extraction treatment. She really enjoyed being a part of the team that consisted of Mother Nature at the helm along with the other team players such as the Ministry of Environment, the Department of Fisheries and Oceans, various specialized consultants and researchers from the University of Alberta and Malaspina University-College. It's most definitely a win-win good news story (we need all of those that we can get!!).

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

Shelley believes up and coming DEGIFS types should become exposed to as many professionals that work in as many aspects of our field as possible (e.g., road building, terrain assessment, hydrology etc). It's important to gain as many perspectives as possible not only on the technical aspects of their work but also for the professional aspects, especially the ethical and liability aspects. It's prudent for new professionals to realize that all the work DEGIFS members perform has liability attached to it. A sense of this liability prior to one entering into the field will help equip them for the context of which to approach all of their jobs. A sense of consequence is a vital component of our professional thought processes.

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

Overall Shelley thinks that both APEGBC and DEGIFS and the Joint Practices Board do a wonderful and effective job in improving our profession and standards of practice. She believes that continued communications between DEGIFS, APEGBC and the ABCPF are essential to maintain.

An area she thinks APEGBC/DEGIFS should start to place more emphasis on and to provide increased exposure to our members is water quality/quantity issues (e.g., forecasting and flood management).

If you could be any kind of geomorphological event, what would it be?

With no hesitation Shelley claimed she would like to be a debris flow. No doubt this is because she is a speed junkie (I mean speed in the m/s context!) PLUS she is intrigued by the magnitude and complexity of debris flows!



Photo: Shelley Higman Ripping on her Mountain Bike



MANAGING LANDSLIDE RISK FROM FOREST PRACTICES IN B.C.

Forest Practices Board – Special Investigation

The following is an excerpt from the above-mentioned publication, which is available on-line at: <http://www.fpb.gov.bc.ca/news/releases/2005/07-13.htm>

The Forest Practices Board has examined the management of landslide-prone cutblocks through evaluation of terrain stability mapping and terrain stability assessments for three areas in BC. While the results of this survey must be considered preliminary, because of the extended time scale over which landslides can occur, the following conclusions can be made:

- Landslides were significantly reduced after the Code came into effect in 1995. However forestry-related landslides are still occurring. In three areas representative of landslide -prone terrain on the Coast and in the Interior, Code road and harvest-related landslides over the past 10 years average one landslide for every 12 steep slope cutblocks or one landslide for every 14 square kilometres of steep slope cutblock each year. While these numbers are low, they represent an increase over the rate of natural landslide activity.
- Roads constructed prior to the Code coming into effect are continuing to fail, in spite of considerable road deactivation work.
- There is a significant probability that any landslide that does occur will have an environmental effect. Approximately 60 percent of the Code landslides may have had a “material adverse effect on a forest value,” using the Board’s criteria.
- Code landslides differ from pre -Code landslides. Code landslides are much less frequent in gullies, along stream escarpments and off roads compared to pre -Code cutblocks. This probably reflects the retention of reserves and management zones around streams and gullies, as well as better road location and construction methods under the Code.
- Landslides are not a significant soil conservation issue, at the landscape level, disturbing only

0.3 percent of the total cutblock area. Landslides can still be a soil conservation issue at the individual cutblock scale.

- Road deactivation appears to effectively stabilize Code roads. However, deactivation of some pre-Code roads has not fully restored hillslope stability; a significant number of landslides have occurred along deactivated pre-Code roads.
- The factors that contributed to the landslides are difficult to determine; over half could not be determined. Of the remainder, harvesting and road building on identified high hazard areas, or of windthrow in adjacent areas, are the most common contributing factors.
- Reconnaissance terrain stability mapping, prepared by professional geoscientists, correctly identified most cutblock areas that eventually experienced landslides, as potentially unstable or unstable. No landslides occurred in cutblocks mapped as stable. Reconnaissance terrain stability mapping did not appear to be used strategically in planning the location of cutblocks and roads, but rather it is used mainly for determining where a terrain stability field assessment is needed.
- Terrain stability field assessments (TSFAs) were carried out on 92 percent of the cutblocks where they were legally required. There were three cases of significant non -compliance where cutblocks did not have a TSFA, and later experienced a landslide. The results of a TSFA were not always incorporated into the SP, as is required. About 40 percent of SPs do not address the results of the TSFA. The TSFA conclusions and recommendations were also not always being considered in cutblock design (i.e., harvesting of identified high hazard sites). Similarly, the recommendations for roads were not always implemented, were implemented but were not effective, or unanticipated problems (e.g., drainage) occurred and affected stability. Also, the adjacent forested areas that are subject to windthrow affected stability and this factor is generally not being considered in most TSFAs, and is not being accounted for in SPs—it is falling between the cracks.



- The comprehensiveness of TSFAs was quite variable. All TSFAs provided an estimate of the likelihood of a landslide occurrence for the cutblock. Overall, the TSFAs consistently predicted a moderate or high likelihood of a landslide in cutblocks that later failed. However, a number did not stratify the block by hazard class; provide hazard assessments for adjacent areas; or estimate the size, the number or the consequence of the landslides. Most TSFAs did provide recommendations to reduce landslide hazard. The more recent TSFAs were generally the most comprehensive.
- The challenge for landslide management under FRPA is to maintain and improve on the gains made during the Code. Licensees will have the discretion on when and where to conduct mapping and assessments. Another shift, from a hazard prevention strategy to a risk management system, is a significant change from what existed under the Code. That is, the consequence of landslides has now entered the equation and forest managers will have to apply landslide risk management to balance environmental and timber supply objectives.

Recommendations:

In accordance with section 131 of FRPA, the Board makes the following recommendations:

1. The landslide management system that was developed under the Code should continue under FRPA. Terrain stability field assessments can be a strong tool for management of unstable terrain. Licensees should continue doing terrain stability field assessments and use the results.
2. The Ministry of Forests and Range regional offices should establish quantitative criteria for classifying landslide hazard in terrain mapping. A landslide hazard class should be defined by the probability or expected frequency of landslides per unit area, rather than by a subjective description.
3. The Ministries of Forests and Range and Environment should establish what “a material adverse effect” from landslides would be for each resource value—with public resources it

is the role of government, not individual licensees, to define where the threshold is for a material adverse effect on resource values. It is important to develop criteria for acceptable risk for each of the FRPA values separately.

4. The Ministry of Forests and Range should regularly conduct inventories of landslides as part of the Forest and Range Evaluation Program, as there is no FRPA requirement for licensees to report landslides.
5. Licensees should use a decision-making framework for the management of landslide risk. A framework separates the process of landslide risk management into distinct steps and clarifies the respective roles of terrain stability professionals and forest resource managers. (See the Board’s Reisetter Creek complaint investigation for more discussion of this concept.) Licensees should also develop objective criteria for triggering when a TSFA must be conducted to provide consistency in application across their operations. One example is the criteria currently being developed by a coastal licensee that combines terrain stability mapping, climatic zone mapping and watershed use to trigger when a TSFA is needed.
6. The Joint Practices Board, or the ABCFP, should develop companion guidelines for forestry managers to the APEGBC Guidelines for Terrain Stability Assessments in the Forest Sector. This guidebook should provide advice to the forest manager in applying appropriate levels of landslide risk management. The guidebook should also provide standardized terminology for effective communication and clarify the responsibilities of forest managers and terrain professionals.





Letter to the Editor

The Forest and Range Practice Act (FRPA): Impacts on Work Opportunities for DEGIFS Members

Ron Jordens, P.Eng.

In 1995 when the Forest Practices Code Act of BC (FPC) and its regulations came into existence, it legislated when and/or where professional engineers and geoscientists had to be used in order for licensees to get their plans approved by the Ministry of Forests. At the same time the Watershed Restoration Program (WRP) was created which also required the services of engineers and geoscientists. Licensees had no choice but to hire us. Often there was the sense that we were only hired because the law said so. These two initiatives created a tremendous opportunity for employment for those professionals who had the requisite skills. It also created a new career path for new graduates, EIT's and GIT's. Life was good. There was work "a plenty" for everyone; in fact there was too much work and not enough trained or experienced professionals to go around. As result some projects were over or under designed, out-of-line costs were experienced and landslides still occurred. We learned that our assessments and prescriptions were not always used. Consequently, bitterness, from different factions, was expressed about the wisdom of legislating the need for our services. Something was going to be done about this!

Fast-forward 10 years. WRP is gone and the government introduces the Forest and Range Practices Act (FRPA), which places the onus on the licensees to manage risk and they, not legislation, now get to decide when and where to hire professionals. If they think we are not needed, then we will not be hired. Hmm-pause to think! It sounds like this change can impact employment opportunities for DEGIFS members? Maybe life won't be as good as it was! We start to hate change!! Maybe we will have "to hustle" to keep employed. Maybe we now have to prove that we can provide innovative, cost effective solutions that will enable licensees to save money and demonstrate "due diligence" for us to keep employed. Maybe we will have to start proving what we've been preaching, "that sound engineering/geoscience saves money in the short and long run". Or, maybe we need to figure out ways do things better, cheaper, make something last longer, be more efficient, less risky, etc. Some of us already practice this way and will maintain

our clients. For those, maybe other clients will hear about them, and more work will come their way. What about the rest?

Licensees are now in the latter phases of the transition period between FPC and FRPA, which the last I heard, ends at the end of this year. Crunch time for this issue is fast approaching, although it may take a year or two until we feel the effects. Do you think this is an issue for you or for us? What actions are you taking to ensure continuing employment in the forest sector? Have you noticed requests for services declining, have you taken belt-tightening measures? Do you think the DEGIFS executive should do something (e.g., create workshops for members, for clients, publish a brochure about our services and how we can save them money and ensure due diligence to pass audits, to maintain certifications)?



Photo: Group of Landslide Enthusiasts on the Field Trip Associated with the International Conference on Landslide Risk Management (June 2005)

Congrats to the organizing committee for a great trip/conference!



DEGIFS Annual Report for 2004/2005 Year in Review

Heather Blyth, DEGIFS Chair

The 2004/2005 year began with another well attended, enjoyable conference and AGM in Whistler, where DEGIFS members delved into: forest road and crossing issues; terrain stability problems related to drainage, fans and fires; and professional accountability. This year DEGIFS continued its participation in the development and review of the recently approved "Guidelines for Professional Services in the Forest Sector – Crossings" as well as its work with CEBC and MoF to improve professional services contracting practices. Our more recent initiatives, however, include:

- continued involvement with the Guidelines subcommittee
- involvement with MoE and other public and private sector organizations, to create the "Terrain Information Working Group"
- evaluation of EIT/GIT proxy supervision
- the awarding of two \$2000 DEGIFS bursaries, one to: Matt Sakals P.Geog, P.Ag. a graduate student in the UBC Faculty of Forestry for his research into "Soil Recharge in Landslide Head Basins"; and the second to Raegan Brown, a 4th year earth sciences B.Sc student at SFU for his paper entitled "Biotechnical Erosion Control".
- upgrading and maintaining the DEGIFS website to keep our members current on relevant issues and events (<http://www.degifs.com>)
- looking into Affiliate membership issues
- assisting with the 2005 Forest Engineering Award of Excellence
- greater cooperation and involvement with ABCFP
- the production of four issues of Aspect, the divisions newsletter

DEGIFS members are working diligently on the 2005 AGM technical sessions which will include a broad spectrum of talks focussed on the theme of "Long Term Sustainability and Planning" in the forest sector, preceded by a one day field tour on the issues and projects within Vancouver Watersheds.

The forest sector is constantly evolving and changing. It is only through the volunteer efforts of dedicated members that DEGIFS is able to keep up with and influence these changes. These same volunteers enable the fulfilment of DEGIFS' mandate of promoting education and high standards of practice, as well as its function as a forum for Division members, forest companies, government agencies and public concerns. On that note, I would like to thank the executive, the editorial team, the co-opted representatives (particularly Peter Mitchell, P.Eng. our APEGBC liaison) and other DEGIFS volunteers whose hard work is reflected in the continued success of the division.

Highlights of Minutes

DEGIFS EXECUTIVE MEETING
August 19, 2005

Attendees:

Heather Blyth Ron Jordens Brian Chow
Bruce Thomson Julie Orban Mark Goldbach

Executive members Absent:

Deepa Filatow, Calvin VanBuskirk, Peter Mitchell

Critical Dates Calendar for 2005

Deadline for submission of nominations for Forest Engineering Award of Excellence 2004/2005 was extended to August 18, 2005. A selection committee needs to be struck that would include the DEGIFS Chair, one other member from APEGBC and one RPF. Ron volunteered to sit on the committee as the APEGBC representative. Need RPF representative.

Nominations for JPB are required for recommendations to council. Next APEGBC meeting is on September 9, 2005.

Committee Reports

Joint Practice Board



Brian Chow indicated that development of a draft communication protocol between DEGIFS and FPB is in process.

Development section would be added as a new section of the front page.

DEGIFS Bursary

Bursary applicants have been reviewed (three in total). David Wilford, Brent Ward and Brian Chow formed the Bursary Committee. The two applicants that have been recommended by the Bursary Committee for receipt of the bursary were reviewed by the executive. The executive agreed to accept the recommendations of the committee. The bursary scoring system was reviewed and no objections were raised by the executive.

New Business

Finalize the Joint Practice Board MOU Comments (Brian Chow)

The Executive collectively finalized comments responding to the latest revisions to the MOU. Brian to draft up DEGIFS response and forward to Heather to send to Peter Mitchell and JPB with a request that DEGIFS have another chance to review and comment on the next revision of the MOU. Brian indicated he is still working on a draft protocol.

2005 AGM

Ron Jordens indicated that there have been two changes in the speaker program. Bob Patrick and Gerry Kennah have agreed to substitute for original speakers.

Field trip has been finalized and will be in a GVRD watershed.

Possible DEGIFS Workshop (Ron Jordens)

Ron discussed the potential for developing and funding a one day workshop covering the following related topics: a) Introducing and comparing the different methods of estimating peak flows for various return periods b) Peak flows results using the California Method. Alternatively, the possibility of a Hydrology theme for next years AGM was discussed. A suggestion to be put forward at the 2005 AGM.

Treasurer's Report

One check issued for \$120 for website improvements. August statement balance is \$11,466.67. July 29th GIC statement balance is \$14,179.18.

TSFA Report Reviews

Discussed the issue of reporting standards post TSFA Guidelines. DEGIFS have received member comments that deficiencies by some practitioners in conducting and reporting Terrain Stability Assessments are currently being addressed through APEGBC on a reactive basis and that a more proactive approach by DEGIFS should be adopted. Possible options were discussed. General results of TSA reporting reviews by the FPB is a possible source of information. Additionally, there have been several studies for licensees that have focused on assessing the overall quality of TSA reporting for due diligence purposes, and there may be an opportunity for DEGIFS to obtain general results from these studies.

Aspect

Julie Orban indicated that there is a need to obtain from the executive or other DEGIFS members photographs of memorable projects or other photographs of interest to DEGIFS for Aspect. Julie also requested letters to the editor.

MOE Terrain Working Group

- Article has been published in Aspect including the purpose of the MSRM

Web Page

\$120 of improvements have been made to the website, most of which are essential to functioning of the website.

Executive unanimously agreed to spend \$240 to add a new section that would be called 'Professional Development'. The Professional



(now MOE) Terrain Information Working group and an invitation for people to participate.

- Deepa will select the terrain specialists from government, industry and private consulting to sit on the working group. A DEGIFS representative should be on the committee for the purpose of reporting back to DEGIFS.
- A terrain information workshop is planned for late spring/early fall 2006. Information will be posted through the DEGIFS website, ASPECT and through the terrain Listserver. DEGIFS participation is encouraged. The terrain web site is <http://srmwww.gov.bc.ca/terrain/>
- A draft document has been created outlining the roles and responsibilities of different groups with regard to terrain mapping. A review by DEGIFS executive would be appreciated, particularly with respect to responsibilities of professional associations. Deepa to send out document to executive and will post it on the terrain website as a PDF. The MOE would like to start a Terrain Mapping working group to review terrain mapping standards and guidelines and digital requirements this year.

Heather Blyth agreed to be the DEGIFS representative on the working group, with Bruce Thomson as an alternate.

Next Meeting

Friday September 16, 2005 by conference call.

LIST OF ACTION ITEMS:

- Deepa Spaeth Filatow to investigate polling on website to monitor standards of practice.
- Calvin VanBuskirk to investigate affiliate membership issues and develop strategy on appropriate approach. Calvin to contact Dwight Yochim to discuss affiliate memberships for ABCFP members.

- Kevin Turner to develop draft communication protocol and flow chart between DEGIFS and JPB and send to DEGIFS for comment.
- Executive to send Heather Blyth list of key design issues for proposed Road Guidelines to discuss at next meeting.
- Deepa to make improvements to the web site to add a 'Professional Development' section.
- Heather to send DEGIFS response to the draft MOU to APEGBC and JPB. Brian to work on draft protocol.
- Heather Blyth to include possibility of a Hydrology theme for 2006 AGM on the 2005 AGM agenda.
- Mark Goldbach to look into obtaining information on TSFA reporting reviews. Executive to provide any additional input on this topic.
- Calvin VanBuskirk to prepare a list of issues regarding sustainability as they relate to roads for discussion at the next DEGIFS Executive meeting.

Terrain Information Business Area Update

Deepa Spaeth Filatow

The provincial terrain and terrain information specialists formerly of the Ministry of Sustainable Resource Management have been moved to the Ministry of Environment, Biodiversity Branch of the Environmental Stewardship Division.

The Terrain Information Working Group had its first meeting on September 8, 2005. Deepa Spaeth Filatow, Maija Finvers, Terry Lewis, Heather Blyth, Brent Ward, and Tim Giles all attended by conference call. Irene Weiland, Denny Maynard, Shelley Higman, Rick Guthrie, and Bruce Thomson were unable to attend. The next meeting is scheduled for October 12, 2005. A summary of the meeting minutes will be circulated via the terrain listserve.

The provincial terrain specialists and the Terrain Working Group are planning a workshop to involve the terrain mapping community in the planning and management of the provincial terrain inventory



program. The meeting will be held in late winter. The dates will be announced over the terrain list serve, in the announcement section of the DEGIFS website and in ASPECT. Topics will include:

- Managing the provincial terrain inventory program
- Upgrading of terrain standards
- Roles and responsibility of the different groups involved in terrain mapping and terrain inventory

Other possible topics will be posted on the terrain website and will be circulated via the terrain listserve for feedback and comment. Please send suggestions, potential topics and comments to soilterrain@victoria1.gov.bc.ca.

An overhaul of the terrain web pages is currently underway, including an improved access to data section. Announcement of these pages going live will be sent in the terrain listserve.

"How do I join the terrain listserve?" you ask...visit <http://srmwww.gov.bc.ca/terrain/listserv.html> and follow the instructions. This is a closed and moderated list. All postings are approved by the list moderator, Deepa Spaeth Filatow. You will not receive unnecessary

volume, junkmail or spam from this listserve. There is a listserve policy link on the webpage above that outlines what the listserve can be used for. It is a means of communication amongst the terrain mapping community and is a vehicle for the provincial terrain specialists to disseminate important information to terrain mappers. If terrain mapping and inventory is part of your expertise/business/interest, please join the listserve.

REMEMBER!!!

Be sure to attend the 2005 DEGIFS AGM as members will be asked to approve the minutes from the 2004 AGM. The draft minutes are on the DEGIFS web site – www.degifs.com

ASPECT welcomes announcements, employment opportunities, technical articles, letters to the Ed, project profiles, photos, tips, jokes, etc...basically ANYTHING that would benefit DEGIFS members. PLEASE PLEASE PRETTY PLEASE WITH A SEEDLING ON TOP send a submission TODAY!!!



APEGBC 2005 AGM-DEGIFS STREAM PRESENTATIONS

Theme: Long Term Sustainability and Planning

Wednesday Oct 12 - Field Trip Tour of Vancouver Watersheds (Hosted by Bob Cavill, GVRD)

Day 1 Thursday October 13

Time	Topic	Speaker
9:00-10:15	(a) -How FRPA addresses sustainable development and long term access management in the Forest Sector -First nation land claim issues, consultation requirements, impacts on forest development (b) Sustainable/total chance planning by licensees	Ralph Archibald Wes Bieber & Grant Sime
10:15 – 10:45 Refreshment Break		
10:45- Noon	(a) -Resource Road Act update and co-ordinating other resource roads with forestry access -FRPA and FPPR updates affecting Degifs members (b) Stream crossing guidelines & best field practices	Ron Davis Bob Patrick & Peter Mitchell
Noon-1:30 Luncheon		
1:45-3:00	(a) Terrain Management Code of Practice (b) The Provincial Terrain Information Program (c) TSFA effectiveness monitoring	Shelley Higman Deepa Filatow Steve Chatwin
3:00-3:30 Refreshment Break		
3:30 – 4:45	(a) Hydro-meteorologic thresholds for landslide initiation in the Kalum & North Coast Forest Districts (b) Managing siltation from logging roads	Matthias Jacob Shelley Higman

Day 2 Friday October 14

Time	Topic	Speaker
9:00-10:15	(a) Moving beyond paired watershed studies: elucidating the relationship between equivalent cut area and watershed hydrology (b) Peak flows results using the California method	Younis Alila
10:15 – 10:45 Refreshment Break		
10:45- Noon	(a) Hydro-geomorphic Risk Analysis (b) Road construction –case study – Yalakom drainage Lillooet	Kim Green Calvin VanBuskirk
Noon-1:30 Luncheon		
1:45-3:00	Post wildfire terrain related assessment and response standard operating procedures – updates and clarifications, latest research	Kevin Turner and others TBA
3:00-3:30 Refreshment Break		
3:30-4:45	(a) Interaction/overlap with forestry and independent power producers (IPPs) (b) BCTS Contracting Opportunities for Professional Engineers and Geoscientists (c) Results of FERICs log stringer breaking study & results of other research (d) Wrap-up	Glenn Moore Gerry Kennah Doug Bennett Heather Blyth
Spare Presentations	1. Karst and results based code 2. Alternatives to full bench cut and endhaul road construction	Tim Stokes Calvin VanBuskirk



Professional Training Update

Course Name	Date	Location	Price	Contact Info
Forest Management on Fans	October 18 October 20 October 26 & 27, 2005	Terrace Queen Charlotte City Smithers Prince George Chilliwack Squamish Salmon Arm	\$160	www.selkirk-management.com
Cable Logging	Feb 7-10/06 May 16-19/06	Vancouver Pr. George	\$750(US) \$925(Can)	<ul style="list-style-type: none"> www.forestengineer.com/html/training.html Phone 541 754-7558 Fax 541 754-7559
Unit Planning & Layout Logger PC V4 Fuel Reduction on Steep Slopes Cost Control Skyline Payloads Multi-span Systems Guying & Anchoring Water Control Slope Staking	Oct/05 to May/06	Corvallis, Oregon	\$200-\$450 (US)	As above
Continuing Professional Development Courses – sponsored by APEGBC	On going	Various	Various	<ul style="list-style-type: none"> Innovation www.apeg.bc.ca/prodev/prodev_events.html 604 430-8035 or 1-888-430-8035 email cpd@apeg.bc.ca
Continuing Professional Development Courses – sponsored by Selkirk Management Services	On going	Various	Various	www.selkirk-management.com
FRPA training	On going	Various		www.for.gov.bc.ca/code/training/frpa/
Forest Engineering Technology: A series of distance education courses offered by BCIT	On going		Various	Jim Rudolph 604 432-8941 www.construction.bcit.ca/distance/forest/ Courses on road construction, maintenance, deactivation and many more.



Who We Are

DEGIFS EXECUTIVE 2004/05

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ASPECT SUBMISSIONS

LAST DATE FOR SUBMISSIONS TO ASPECT	NEWSLETTER RELEASE DATE
DECEMBER 2, 2005	DECEMBER 16, 2005

Electronic submissions in **Word format (only)** should be made to Julie Orban (julie.orban@gov.bc.ca) by the date listed above.

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