

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"

Jennifer Clarke, P.Geo.

New Beginnings...

Greetings! I thoroughly enjoyed the latest APEGBC AGM in Victoria last week. It was an opportunity to see old friends and meet new ones and to get caught up with the industry. As usual, DEGIFS put together two days of high-quality technical talks, many of which opened my eyes to the significance, relevance, and urgency related to climate change. In addition, the field trip to the Capital Regional District Watershed was really interesting (see photos within).

At the DEGIFS AGM, we were introduced to our new executive:

- *Mark Goldbach, P.Eng., L.E.G.*
- *Norman Deverney, P.Eng.*
- *Julian Henley, P.Eng.*
- *Doug Underhill, P.Eng., R.P.F.*
- *Dave Wilford, P.Geo.*
- *Irene Weiland, P.Geo.*
- *Tracey M. Raume, P.Eng.*
- *Ron Arksey, P.Geo.*

Those who volunteer their time to organize, lobby, and work on our behalf deserve our thanks. Congratulations to Tim Smith, acclaimed as APEGBC President, and Kevin Turner, elected to Council. Your representation will be sure to add depth and vision to our Association.

After seven years as one of the Aspect Editors, I am hereby announcing that I will be resigning this position. I am very happy to announce that Sharon Scott, P.Geo., has graciously offered to take over. Sharon is a Terrain Specialist with Hayes Forest Services Ltd. She came to BC from Newfoundland, after pursuing a post-graduate education in Physical Geography (geomorphology/surficial geology), over 12 years ago and has settled on Vancouver Island (alternating between Duncan and Victoria). Please welcome her to the Aspect Editorial team.

Sharon may be contacted at sharon.scott@hayes.bc.ca

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

DIVISION OF ENGINEERS AND GEOSCIENTISTS IN THE FOREST SECTOR

Volume 11, No. 3

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Common Practice Oversights and Omissions: Reminder to Members doing Terrain Stability Assessments in the Forest Sector

Gillian Pichler, P.Eng., APEGBC

In reviewing applications for the new expedited "Limited License in Civil Engineering for Professional Geoscientists carrying out Terrain Stability Assessments for Forest Roads and Other Excavations Related to Forest Development", the Review Panel has noted several practice oversights and omissions that are common to some of the applicants. The panel wishes to remind all Professional Engineers and Professional Geoscientists doing Terrain Stability Assessments (TSAs), that they should follow the APEGBC Guidelines for Terrain Stability Assessments in the Forest Sector for all TSA Reports.

The following are the items that the panel has identified as being particularly poorly covered in some of the TSA Reports, including those written by well-qualified practitioners.

1. Specifications and Rationale for Cutslopes and Fillslopes
 - a. Reports should specify cutslope angles, cut heights, fillslope angles, fill heights and rationale for these.
 - b. Reports should provide guidance for maintenance to cutslopes and fillslopes after construction.
2. Slope Risk and Failure
 - a. Reports should discuss influence of road construction and harvesting on future landslide occurrence.
 - b. Reports should comment and identify residual hazards and their connection to downslope values.
3. Worker Safety
 - a. Reports should discuss effect and potential effect on worker safety.
 - b. Reports should include recommendations for ensuring worker safety.
4. Statement of Limitations
 - a. Reports should include a general statement of limitations of the methodology used and the variability of the expected geological conditions, and how these should be addressed during construction.
 - b. Reports should address the necessity for geometric design review
 - c. Reports should address field reviews during construction.
5. Reliance on Manuals/Handbooks/Guidebooks
 - a. Reliance on Manuals, Handbooks and Guidebooks requires professional judgment. By referring to sections, tables, charts, procedures within these documents, Members and Licensees become responsible for this information.
 - b. Reliance on the *Canadian Foundation Engineering Manual* as a reference for soils classification and performance should not be a substitute for expertise in soil mechanics, or referral to a professional with the appropriate expertise.
 - c. Reliance on the Cascadia Forest Products Ltd.'s *Terrain Manual* to determine drainage methodology is inappropriate.
6. Stamping and Sealing of Reports

It is a requirement under the Engineers and Geoscientists Act of B.C. that members and licensees sign, seal and hand-date all reports, letters and memos that provide professional recommendations or opinions. This includes Terrain Stability Assessment reports.
7. Self-Assessment and Recognition of a Member's Professional Limitations
 - a. Members should recognize their professional limitations, especially in recognizing the importance of having a solid basic knowledge of soil mechanics and stability analysis.
 - b. Members should not carry out engineering design when not qualified, and should recognize when they should call upon the



services of a professional with the appropriate expertise.

To address adequate training and experience in soil mechanics, slope stability and/or other skill sets, the Review Panel will be recommending to Council that a course of study and/or mentored experience be developed and offered for those who have not had formal training in these areas, and as a refresher course for practitioners who need to update their skills.

DEGIFS MEMBER PROFILE:

Daryl Taylor, P.Eng, R.P.F.

Engineering Supervisor
West Fraser Mills, Williams Lake Division

Interview by: Rob Wilson (Aspect Editor)

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

I am a Forest Engineer with West Fraser Mills (WFM). In November 1998 I was registered as a Professional Forester with APFBC, and in February 2005 I was registered as a Professional Engineer with APEGBC.

I attended the University of New Brunswick and spent my summers working for the Department of Natural Resources in the Northwest Territories, as well as one summer working on Vancouver Island. I graduated in 1996 when BC was in a crunch for professionals due to the inception of the Forest Practices Code. I was hired by West Fraser Mills, Williams Lake Division, right out of university and moved to Williams Lake the day after graduation with my wife Kendra. I've been here ever since.

What do you do?

That's a very hard question to ask anyone who has ever worked in the Woods Division for a major licensee, especially the past few years addressing the beetle epidemic. Currently, I'm managing the roads program which includes evaluating road upgrade projects, and scheduling of inspections, maintenance, and deactivation activities on over 2000 roads. I also layout, design, install and inspect the bulk of the major structures.

I also act as the Environmental Management System coordinator for which I develop and maintain programs to ensure WFM stays ISO 14001 / SFI compliant.

What has been your favorite project experience?

One project that stands out was the "Connector Road" mostly because of my involvement in all of the phases. This project was done fairly early on in my professional career and it opened my eyes to the many different perspectives there can be on larger forestry projects.

The objective was ultimately to lower delivered log costs in our Quesnel Lake operating area by connecting 3 independent road networks and individual log dump sites into one main line road with a combined length of over 70 km. This allowed us to permanently close one camp, add much needed flexibility for logging and hauling and decrease direct costs for boats, barge, fuel, and road maintenance. The project involved coordination between multiple agencies (MOF, MELP, DFO) and multiple professional disciplines from various fields (Geotechnical, Biologists, Hydrologists, Geomorphologists, Foresters).

Daryl works on the "Cutting Edge" of Engineering!





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

It took me much too long before I participated in committees, working groups, or association related activities. It's never too early to get involved, even if it's just to learn how or why decisions are made because someday it may be you making or assisting in those same types of decisions. Also, you have to keep up to date with fresh ideas, so get out and look at what other people / divisions / companies are doing outside the 'box' you work in. The trick is convincing the companies you work for that it is beneficial to them in the long run.

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

I believe that the role of the professional in forestry safety related matters (especially transportation systems) and the overlap between forestry and other resource users, mining for example, is becoming more significant in recent years.

To rephrase this, Daryl would like DEGIFS to broaden its focus into the resource sector, with more Professional accountability for safety matters and more accountability in general for other resource sectors.

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

I would have to say a rain-on-snow runoff event because, over the past few years, I have guessed wrong in predicting the effect of several rain-on-snow events on our mountain operations.

I agree that being part of one is the best way to visualize the potential consequences...However, I was hoping perhaps Daryl would go for the "Jack Straw" or sweeping tree on a slow moving earth slump landslide event...

Summary of the Terrain Inventory Information Workshop

Sid Tsang, P.Geo. and Maija Finvers, P.Geo.

The Ministry of Environment – Ecosystems Branch, as the current custodian of terrain information, hosted a two-day workshop on February 2nd and 3rd, 2006 in Richmond, B.C., to engage the terrain community in discussions about terrain mapping in B.C. The 30 attendees included terrain mapping professionals, representatives from the Ministry of Environment, Ministry of Forests and Range, the Integrated Land Management Bureau, GIS contractors, forest licensees, First Nations and other users of terrain data.

Many topics were discussed, ranging from defining the 'terrain information system' and its components (e.g., data banks, people and organizations) to identification of trends, roles and responsibilities of the players to implementation requirements and priorities.

The workshop facilitator prepared the summary report: 'The Terrain Mapping Information System: Moving Forward.' This report is available from:

ftp://fshftp.env.gov.bc.ca/pub/outgoing/Terrain_Data/WorkshopReport/

Overall, the terrain mapping field and profession is experiencing a major shift from being largely shaped by the requirements, regulatory frameworks, funding and direct work of the provincial government and forestry interests, to being largely shaped by the interests and needs of specific and more diverse users of the information, including resource developers, public agencies (Provincial ministries, Federal agencies, municipalities, and regional districts), First Nations governments, private companies and individual citizens.

Key topics and issues discussed by the workshop participants included:

- The composition of the terrain information system which consists of more than just data and information. It includes the people and organizations that create the maps and information, maintain the mapping and data



standards, compile, manage and provide access to the data, and the users of terrain mapping information. Groups with roles and responsibilities include the terrain mapping professionals, the professional organizations, government ministries and departments, forest licensees and other users.

- The need for flexibility in the terrain information system to support the diversity of terrain mapping work being done.
- The data users' desire for fast, easy, logical and efficient access to terrain and other related data, ideally a 'one-stop shop' or access to an index with basic information, reliable quality data, complete geographic coverage, data in a variety of formats, and access to technical advice and 'customer support'.
- The community's concern that a significant volume of 'old' terrain mapping data needs to be gathered and compiled before people retire or offices are closed or reorganized, so information is not lost. Access to this information is required in the long term, to avoid duplication of costly field and mapping work, and to support incremental work.
- The importance of terrain information in informing land-use management and decision-making, supporting stewardship of Crown lands, in economic and employment development, and in meeting the information needs of a general public who have an increasing interest and concern regarding environmental issues.
- The overall leadership responsibility for the terrain information system should lie with the current data custodians within the Ministry of Environment, and if the system is to be robust, there needs to be continuity of custodianship, maintenance of standards, co-ordination across agencies, funding, and a long-term commitment to sustaining the terrain information system.
- The components of the terrain information system, which include:
 - Terrain Mapping Standards
 - Terrain Digital Data Standards
 - Conversion of 'old' data to current standard formats and identification of 'missing' projects
 - Gathering and storing of 'old' and currently missing data
 - Education and training
 - Marketing
 - Provision of tools

Workshop Participant Recommendations:

The top priorities identified by workshop participants include:

- building and populating the data repositories,
- providing easy access to the data,
- ensuring 'old' data is not lost.

Next Steps:

The Ministry of Environment, as custodian of terrain data in B.C., is undertaking the following activities:

- Maintaining a listserv to support communication with and within the terrain community (To read the terrain listserv policy and sign up, visit: <http://srmwww.gov.bc.ca/terrain/listserv.html>).
- Updating the Terrain web pages to provide information about terrain mapping, and improved access to maps and data, standards, guidelines and other documents.
- Gathering data from various sources (e.g., regional offices, potentially from professional mappers) to ensure this data is not lost and posting data to data repositories.
- Cataloguing data holdings and posting these indices to the Terrain web pages.
- Facilitating on-going discussions with the terrain community through the Terrain Working Group.
- Updating the terrain digital data capture standards, maintaining standards and developing new standards as required.

The authors would like to acknowledge workshop participants for their contributions and Gavin Perryman, workshop facilitator and author of the report. Feedback and questions may be sent to: soilterrain@victoria1.gov.bc.ca or contact Sid Tsang (604-222-6753) or Maija Finvers (250-387-9474).



Professional Geoscientists and WCB Regulation 20.78

Peter Mitchell, P.Eng., APEGBC

(Ed. note: this article was submitted in late June but missed the submission cutoff date for the previous issue of Aspect)

BC's Occupational Health and Safety (OHS) Regulation contains legal requirements that must be met by all workplaces under the inspectional jurisdiction of the Workers' Compensation Board. OHS Regulation Parts 20-32: Industry/Activity Specific Requirements address requirements for specific industries (such as forestry, oil and gas, and construction) or specific hazardous activities (such as blasting and diving).

Subsequent to an incident in August 2005 involving serious injury to an excavator operator while constructing a logging road, WorkSafeBC issued an Inspection Report in January 2006 (www.degifs.com/pdf/WCBReport.pdf) that explicitly enforces Part 20.78 (Excavations: Work Standards) of the OHS Regulation (www2.worksafebc.com/Publications/OHSRegulation/Part20.asp#SectionNumber:20.78)

The implications of the Inspection Report findings are that if any of the criteria defined in OHS Part 20.78 are met, only a professional engineer can develop forest road design measures that are prepared as part of a terrain stability assessment (TSA). As a result, professional geoscientists who are qualified for, and routinely carry out, this work as part of a TSA may now have their work challenged under the provisions of Part 20.78 unless they are licensed to practice professional engineering in this specific field.

APEGBC has confirmed with WorkSafeBC that the findings contained in the aforementioned Inspection Report are in conflict with APEGBC's position on the role of professional engineers (who practice geotechnical/geological engineering) and professional geoscientists (who practice engineering geology) when engaged in the professional activities referenced in the Report.

APEGBC's position on this matter is reflected in its October 2003 Guidelines for Terrain Stability

Assessments in the Forest Sector (www.apeg.bc.ca/library/library/guidelines/Guidelines_for_Terrain_Stability_Assessments_in_the_Forest_Sector.pdf), which were approved by APEGBC Council. This document specifically recognizes that both professional engineers and professional geoscientists can conduct TSAs for forest roads, including the preparation of forest road design measures, provided they meet the professional qualifications outlined in the Guidelines.

APEGBC recognizes that, without the services of professional geoscientists who work in this field, the forest industry does not have sufficient practitioners to adequately cover its needs. However, it is anticipated that corresponding amendments to the OHS Regulation may take several months.

To resolve this issue in the short term, APEGBC has developed a standard scope Limited License in Engineering and expedited evaluation process. WorkSafeBC has confirmed that professional geoscientists with this Limited License will not have their work challenged under Part 20.78 of the OHS Regulation. This currently is the only solution available to permit professional geoscientists to practice in this area during the current field season without contravening the OHS Regulation.

DEGIFS Executive has been directly involved in the development of this Limited License process as well as other matters related to APEGBC'S response to this issue.

The process of amending the OHS Regulations has been initiated with WorkSafeBC and these discussions include the involvement of the Association of BC Professional Foresters to reflect the role of their members in the planning, locating and approving forest transportation systems including forest roads as defined in the Forester's Act.

Finally, due to the implications related to public safety and the environment, the APEGBC Council has directed that practice Reviews be carried out on all professional engineers carrying out terrain stability assessments. It is anticipated that these practice Reviews will be completed over the next few years.

For more information on the expedited Limited License process for professional geoscientists who have routinely undertaken TSAs for forest roads and other excavations related to forest developments, please



contact Caroline Westra at (604) 412-4875 or cwestra@apeg.bc.ca. For further practice-related information or questions regarding this matter please contact Peter Mitchell P.Eng., Associate Director, Professional Practice at (604) 412-4853 or mitchell@apeg.bc.ca.

As of October, 2006, 17 Limited Licensees have been issued to Professional Geoscientists within the following standardized scope of practice:

“Professional engineering within the civil discipline, limited to: the carrying out of Terrain Stability Assessments for forest roads and other excavations related to forest development, in accordance with the APEGBC Guidelines for Terrain Stability Assessments in the Forest Sector”.

Letter to the Editor:

APEGBC’s Solution to WorkSafe Investigation Not Good Enough

Del W. Ferguson, P.Geo.

There is currently a major issue in the forest sector between WorkSafe, APEGBC and professional practice, as most of you are well aware¹. At this time professional Limited Licensing (LL) is required for any Professional Geoscientist who wishes to be involved with TSAs for forest roads. Your input is needed into what I consider to be an uninformed approach by APEGBC and WorkSafe, which in itself impinges on the credibility of Professional Geoscientists working in the forest sector.

Following are the two primary concerns:

Concern #1: Requirement and Validity of the WorkSafe Inspection Report

The WorkSafe Inspection Report completed for the incident placed forest roads under the classification of “excavation”. Previous to this inspection report, WorkSafe’s OH&S Regulation Section 20 was believed by professionals to be applied to foundation works, not forest roads. WorkSafe and APEGBC have failed to represent the interests of P.Geo.’s, but rather used WorkSafe’s ideology that planning, locating and

designing Forest Roads should be taken out of the hands of professional foresters and placed in the hands of civil engineers or geoscientists having engineering backgrounds. The report made available through the DEGIFS’ website on May 4, did not indicate that P.Geo.’s operating effectively in this area would be impacted. It is understood that the current process of planning, locating and designing forest roads is under the umbrella of professional foresters (Foresters Act), with input from geoscientists and engineers having education, knowledge and experience in the field of terrain stability. This is not the approach taken by the WorkSafe Inspection Report, which states that planning and direction of road work is to be conducted by a professional engineer.

As Professional Geoscientists and Engineers in the Forest Sector, we have Guidelines for Terrain Stability Assessments (TSAs) that specifically include all aspects of forest roads. It is therefore APEGBC’s role and responsibility to right the wrongful assumptions of the WorkSafe Inspection report and to provide their membership with adequate outcomes, including continued reliance on Professional Geoscientists and Engineers for input into forest road stability and design.

Concern #2: The APEGBC – WorkSafe Quick Resolve Solution

To date, the best interests of Professional Geoscientists have not been represented. They are being asked to complete a full design of forest roads during terrain survey assessment of roads. Geoscientists who have conducted or wish to conduct TSAs on forest roads are currently going through a costly and demeaning process for Limited Licensing. This will allow the P.Geo. to do engineering design for forest roads. In many cases, this is out of his/her realm of education and training.

In addition, the APEGBC process is not transparent and has been wrapped in a cloak of obscure secrecy with geoscientists being asked to sign a confidentiality disclosure prior to being interviewed. Geoscience skills are not recognized here, but rather civil engineering skills. To my knowledge there are no background checks or referrals to industry personnel for how well the geoscientist performs or conducts TSAs. Geoscientists with greater than a decade of work dedicated to TSAs are being told that they are not now qualified to conduct road TSAs. WorkSafe and APEGBC should be well aware that there has been no information brought forth that indicates that forest

¹ www.degifs.com: May 4th Announcement with reference to WorkSafe Inspection and Regulations



roads with design input by engineers are any better or safer than those having terrain stability data input by professional geoscientists. Here are some key questions we as professionals should be asking so that this issue can be resolved in a reasonable manner:

- Why did APEGBC not investigate the erroneous statements contained in the WorkSafe Investigation Report and why did APEGBC not represent the P.Geo. in the WorkSafe inspection report?
- Why is WorkSafe moving forestry road construction from OH&S Section 26 (forestry operations) to OH&S Section 20 (construction, excavation and demolition), without prior consultation with the forest industry?
- Why did APEGBC not challenge WorkSafe on their decision to move forest road construction from the historic OH&S Regulation 26 to OH&S Regulation 20?
- Why is there a lack of transparency in this Limited Licensing process; why the secrecy and why is this process not proactive, rather than reactive?
- Why is DEGIFS not taking a more informative role to the membership and considering further education/training for forest road design? Is a discussion and explanation of this matter forthcoming to our membership?
- What will happen to those P.Geo.'s who do not obtain an LL designation? How will they be impacted? How can they obtain the appropriate training/education in a timely manner?
- How are engineers or LL's supposed to plan and conduct road works? This means that engineers are to be on-site. How is this to be accomplished?

In conclusion, by adapting OH&S Regulation 20.78 for forest roads, are we unnecessarily taxing professional resources and costs for forest road construction, without addressing some of the real causes of the problem at hand? This incident needs to be addressed by APEGBC and DEGIFS with input from WorkSafe, not by WorkSafe with input from APEGBC and DEGIFS. LL is not the way to go, as by providing increased numerical criteria, we are likely to lose the empirical data necessary to evaluate road stability. If this incident does point to a general lack of training of the professional in a particular aspect of forest road evaluation, then appropriate education and training programs should be made available to all to resolve this problem. Arbitrarily imposing a LL designation on a group of professionals is not going to make safer and better forest roads.

email: del.aztec@shaw.ca

Letter to the Editor:

DEGIFS ACHIEVEMENTS

Tim Smith, P.Geo.

Westrek Geotechnical Services Ltd.
(and newly elected APEGBC President)

I just wanted to let you know that DEGIFS and its members should be proud. They have now successfully put 3 candidates forward (to the best of my knowledge) for Council and all 3 have been elected first time on the ballot. Congratulations to our latest addition....Kevin Turner!

The other Councillors of lesser importance include Colin Smith and Tim Smith (no relation), both who have achieved the office of el presidente! Kevin, you're next.....

I think that it is also very important to note that Brian Chow has been appointed the Chief Engineer of the B.C. Ministry of Forests.

It appears that our little Division is a great breeding ground and an example to other members of APEGBC. A lot of this is due to the fine work of the Executive, JPB members and sub-committee members who work tirelessly in ensuring that the professions and our professional standards keep relevant and are sustainable!

On behalf of Kevin and myself, I would like to thank the Executive and DEGIFS members for their support in ensuring that we both were elected to the Board so that we can continue the good work that is done by the Division and its members!



UPCOMING EVENTS

Landslides and Forest Operations on Vancouver Island:

Understanding the Hazard and Lowering Your Risk

Rick Guthrie, M.Sc., P.Geo.,
Regional Geomorphologist,
BC Ministry of Environment (Vancouver
Island)

Nanaimo: November 14th, 2006
Port Alberni: November 15th, 2006
Campbell River: November 16th, 2006
Port Hardy: November 17th, 2006

Since 2000, the BC Ministry of Environment has developed a substantial body of science on landslides and forestry operations in coastal British Columbia. Recently, under the Forest and Range Practices Act, there has been a shift in liability from government to licensed professionals. This shift has increased the need to understand, and remain current with, relevant information on forest management practices that may cause landslides.

Recognizing that there are many barriers to accessing new knowledge, this workshop attempts to synthesize in a single day the new volume of landslide information available for Vancouver Island. Drawing mainly from published and submitted scientific papers, the emphasis of the workshop is on understanding and working with regional information to improve on-the-ground practices and reduce landslide risk. Workshop topics that will be addressed include: landslide frequencies, magnitudes, distribution; triggering factors; major controls on landsliding; heterogeneity of Vancouver Island, run-out and impacts. Workshop topics will be illustrated with recent (typically 2005) case studies from across Vancouver Island, and the many practical tools (e.g., maps, data and developing models) available to land managers, forest and geoscience professionals will also be discussed.

For more information on the workshops, please contact: richard.guthrie@gov.bc.ca Tel: 250-751-3138; or Robin.Pike@forrex.org Tel: 250-387-5887.

The course ranges from theoretical to practical and is targeted primarily at geoscientists and geotechnical engineers, industry foresters/engineers, and government staff who deal with landslides and forestry in the course of their work. The link, and a description of the course can be found here:

http://www.selkirk-management.com/landslides_and_forest_ops.html

Extras include... a CD that includes recent landslide and forestry research for Vancouver Island (probably as PDFs) including recent research by others (Streamline, MOF and Forest Practices Board for example), linked to a table of contents. I'll also include maps for Vancouver Island (Geology, Surficial Geology, Mass Wasting Potential, etc...) as both finished JPGs and as Arc e00 files so that you can pull them into your own GIS if you wish.

To Register, go to:

<http://www.smservices.citymax.com/catalog/item/1703055/3319715.htm>

DEGIFS FIELD TOUR – CRD WATERSHED

Thanks to Gordon Joyce, RPF, and Burn Hemus of the Capital Regional District for their informative tour of the CRD Watershed on October 11, 2006. Here are a few photos:





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





Who We Are

DEGIFS EXECUTIVE 2005/06

(Ed. note: Executive Contact info will be updated once new positions are determined – stay tuned!)

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Do Not Forget!!!

ASPECT SUBMISSIONS

LAST DATE FOR SUBMISSIONS TO ASPECT	NEWSLETTER RELEASE DATE
DECEMBER 1, 2006	DECEMBER 15, 2006

Electronic submissions in **Word format (only)** should be made to one of the Editors (listed on cover page) by the date listed above.

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