



Volume 1, Issue 5

The 4th Dimension

Association of Professional Engineers and Geoscientists of BC
 Victoria Branch Newsletter
www.apeg.bc.ca/vic

Conserving Victoria's Historic Buildings

This month's featured speaker is Mr. James K. Blohm, P.Eng. of Peterson Galloway, Ltd., a local consulting structural engineering firm. You are cordially invited to join Mr. Blohm at the March 27 branch dinner meeting, where he will provide an introduction to various aspects of conservation work on Victoria's historic buildings.

Victoria has a unique sense of place, which is defined by its historic buildings and its Maritime setting. These buildings are in need of our support to ensure their future. New tax incentives and grants are available from various government and trusts to protect our heritage.

Over the last 25 years, Mr. Blohm has taken the opportunity to consult on numerous historic/heritage buildings in British Columbia. His work is based on the understanding of the craftsman's approach to construction of our historic buildings. By applying a modern building science approach and analysis, unique solutions are sought to stabilize and protect the structure for continued operation. Mr. Blohm has worked closely with the community to foster the growth of awareness for concerns of historic buildings and the implementation of reasonable goals for corrective measures increasing the level of life safety for the public.



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When: Thursday, March 27, 2003
 5:30 pm Social
 6:00 pm Dinner
 7:45 pm Presentation

Location: Caddie's Pub, UVic

Cost:	Pre-registration	\$20.00
	At the door	\$25.00
	Students	\$10.00
	Presentation only	\$5.00

Please pre-register by TUESDAY, March 25 via the answering service at 721-8896. Provide the names of those whom you are registering and your telephone number. To cancel your registration, leave a message at 882-4482 by NOON, March 26. The branch must pay for no-shows. ☹

Tom Owen Receives Talbot Memorial Scholarship



Tom McLean (left), the Talbot Fund Manager and Jan Buermans (right), Branch Chair, award the first Talbot Memorial Scholarship to Tom Owen (middle), 4th year Mechanical Engineering student from UVic. Congratulations to Tom Owen!

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Vancouver Island Regional Science Fair

By Dave Bevan, P.Eng.

Science Fairs provide young people who are motivated towards science with an occasion to have their work evaluated. These fairs constitute an important source of encouragement to students to develop interests beyond the constraints of the formal education environment.

Exhibitors in the Science Fair are students ranging from Grades 4 through 12. They are competing for cash prizes, trophies, plaques and ribbons and subject to availability of funds, for expense-paid trips to compete as regional representatives in the Canada-Wide Science fair (grades 7 through 12 only). Four divisions are recognized: Elementary (grades 4 & 5), Intermediate (grades 6 & 7), Junior (grades 8 & 9), and Senior (grades 10, 11 & 12). The exhibits are assigned to judges (approximately 4-6 per person) based on areas of expertise. Projects usually involve laboratory, field or theoretical investigations and Library research.

The Victoria Branch actively supports the Science Fair, with the provision of 10 prizes for the most promising of exhibits that reflect any branch of engineering or science. Three

Victoria Branch Executives are privileged to act as judges on this most memorable day. All Engineers, Geoscientists and families are encouraged to attend this Science Fair. See the



wonders of young minds at work and have some fun.

This free event will take place at the Elliott Building, University of Victoria and has the following schedule:

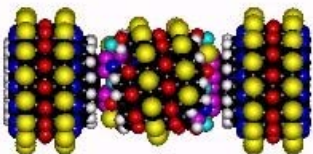
April 12	Setup and Judging
April 13, Noon - 3 p.m.	Public Viewing and Judging
April 14, 10 a.m. - Noon	Public Viewing and Presentation of Awards

We hope to see you there! ☞

Eventful February!

February proved to be a busy month for Victoria Branch members with two meetings on February 27. The lunch meeting was highly informative as APEGBC Executive Director, John Bremner, P.Eng. shared insights, issues and concerns on the potential merger between APEGBC and ASTTBC.

The dinner meeting of the same day was jam packed with events. Two UVic students were awarded: Scott Bumpus received an Achievement Award and Tom Owen received the first Talbot Memorial Scholarship. Five new BC engineers were inducted: Nicholas Alcock, Kevin Bromley, Bjarne Hansen, Andy Jani, and Ian Stewart Lunn.



APEGBC President, Dick Fletcher, P.Eng., then delivered an informative report on APEGBC council activities including the association's direction and goals, 2003 budget, the new CPD program, international activities, and updates to the website.

Guest speaker, Andy Gilliland, P.Eng. and Director of Stakeholder Relations for the NRC NINT, gave an introduction to the rising technology that may revolutionize the world. More information on nanotechnology and its applications and potential impacts on society may be found on the web at:

National Institute of Nanotechnology
Scientific American Magazine

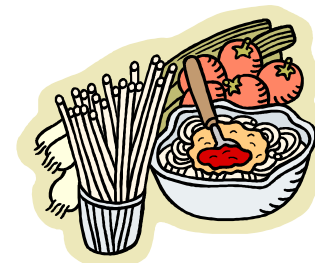
<http://www.nint.ca>
<http://www.sciam.com/nanotech> ☞

10th Annual Spaghetti Bridge Contest

Victoria Branch Executives hosted another successful Spaghetti Bridge contest on Friday, March 7, 2003.

Many high school and Camosun College students met the 10th annual challenge to build the strongest and most aesthetically pleasing bridge possible made with only spaghetti and hot glue.

THANK YOU to all the volunteers who helped make the event a great success! ☞



Meetings Around Town

APEGBC, Victoria Branch

Victoria Branch dinner meetings are held the last Thursday night of every month from September to May excluding December. Meetings are usually held at Caddie's Pub in University of Victoria and start at 5:30 p.m. Next month's meeting, scheduled for April 24, will feature **Charles D. Howard speaking on Water, a Strategic Resource.**

Everyone is welcome to attend the Branch Executive meetings held every first Tuesday of the month at 7:00am at Redd's Café in the Holiday Inn on Blanshard St and Finlayson Ave. The next meeting is scheduled for April 1st.

ASHRAE, Vancouver Island Chapter

The next meeting is on April 17, 2003 featuring Donald Colliver, the president of ASHRAE. The topic of Mr. Colliver's presentation is "Design Weather Conditions"

RSVP by email to Paul R Mazzulli at paul@burrmech.ca or call Paul at (250) 385-6234 to reserve your spot. Cost: \$25.00 for chapter members, society members, & guests of members, \$15.00 for students and \$30 for non-members. For more information, please link to the regional ASHRAE web site at <http://www.ashrae.bc.ca/vi.htm>.



Canadian Geotechnical Society (CGS)

The next meeting is scheduled for Friday, March 21, 2003 11:45 a.m. at the Traveler's Inn - City Centre, 1961 Douglas St., Victoria. The guest speaker is Peter Byrne, P.Eng., who will be talking about seismic engineering. The cost is \$13. For more information, please link to the CGS web site at <http://www.cgs.ca/english/reg-div/vic-loc.html> or contact Steve Bean by email at sbean@thurberggroup.com or by calling (250) 727-2201.

Canadian Society for Civil Engineering (CSCE)

If you are interested in joining, please e-mail CSCE at info@csce.ca. For more information, contact Gerry Buydens at 356-9449 or Gerry.Buydens@gems2.gov.bc.ca.

Engineering Institute of Canada (EIC), Vancouver Island Branch

The next meeting is scheduled for 12:00 p.m., April 4, 2003 at the Traveler's Inn, 1961 Douglas St. For more information, please link to: <http://civil.camosun.bc.ca/vib-eic/>

Engineer's Wives Association

The next meeting is scheduled for Friday, April 4, 2003. The topic will be announced. For more information please call Caroline Hunter at 595-8658.

Institute of Transportation Engineers (CITE), Vancouver Island Section

2003 CITE Quad/WCTA Regional Conference Doing it Right - State of the Art

The Vancouver Island Section of CITE and the Western Canada Traffic Association (WCTA) are hosting a 1 1/2 day Regional Conference in Victoria on April 4 to 5.

The conference will be of interest to all those involved in the planning, design and operation of transportation facilities. In addition to the Conference, five seminars are planned including SYNCHRO Traffic Signal Software (3 courses), a 2-day "Development Access - Approve it - Safely" seminar, and a 1-day Traffic Safety seminar. For more details, link to the CITE website at <http://www.citebc.ca>.

UVic Lansdowne Speaker

7:00 p.m., Thursday, April 3, 2003
Room A240, Human and Social Development (HSD) Building, University of Victoria

Professor Jorge Angeles, Ph.D., P.Eng., F.C.S.M.E., F.A.S.M.E., of the Department of Mechanical Engineering, McGill University, will present a seminar on **Uncertainty, Isotropy, and Optimality in Design**. Professor Angeles is a world-renowned engineer in the area of mechanisms and machines. He has made contributions to design methodology; mechanical design; geometric modelling; multibody dynamics; robot design and control; and the theory of kinematic chains. Angeles has authored or co-authored six books and numerous archival journal articles on the theory and design of mechanism and robotic systems. Angeles recently completed a four-year term as the president of the International Federation for the Promotion of Mechanism and Machine Science (IFTOMM).

Presented by the UVic Department of Mechanical Engineering. **Free** and open to the public. ☺

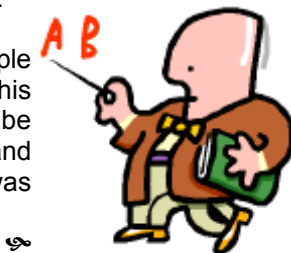
The Lighter Side

At Duke University, there were four sophomores taking a Physics course. They were doing so well on all the quizzes, midterms and labs that each had an A so far for the semester. These four friends were so confident that they decided to go up to the University of Virginia and party with friends on the weekend before finals. After all the hearty partying, they slept all day Sunday and didn't make it back to Duke until early Monday morning.

Rather than taking the final then, they decided to find their professor and explain to him that they had gone to UVA for the weekend with the plan to come back in time to study, but they unfortunately had a flat tire on the way back, didn't have a spare, and couldn't get help for a long time. As a result, they missed the final.

The professor thought it over and agreed they could make up the final the following day. Elated and relieved, these guys studiously prepared for the exam. The next day, the professor placed them in separate rooms and handed each of them a test booklet.

The first problem, worth five points, was a simple question. At the same time, each one in his separate room thought, "This is going to be easy!" Each finished the lengthy problem and then turned the page. On the second page was written: For 95 points: Which tire?



Victoria Branch Executives

Chair Jan Buermans, P.Eng janbuermans@shaw.ca	655-5529 x125
Past-Chair Dave Bevan, P.Eng dmbevan@ii.ca	477-5764
Vice-Chair Greg Beaveridge, P.Eng beaverig@shaw.ca	370-4504
Treasurer Joshua Hayes, EIT joshua_hayes@tactex.com	480-1132
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Henrik Jacobsen, P.Eng henrik.jacobsen@agti.ca	383-8351

Have Your Say!

Do you have concerns or comments you would like to voice? We'd love to hear from you and welcome any contributions to this newsletter, humorous or otherwise. The deadline for submissions to the next newsletter is April 4, 2003. Please send them to Joyce Liu, EIT at jliu@powelgroup.com.

Advertisements

While APEGBC-Victoria Branch is not in a position to endorse advertisements, we do provide them as a service to our members. The advertising rates are \$200 for eight continuous advertisements and \$30 for a single advertisement.

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