



Professional Engineers
and Geoscientists of BC
www.apeg.bc.ca

April 2009

The 4th Dimension

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

Next Event – Dinner Meeting Thursday April 30, 2009 at Camosun College, Interurban Campus to coincide with the Spaghetti Bridge competition.

The next meeting will be on **Thursday April 30th, 2009**. This dinner meeting will round out the challenging day of spaghetti bridge competitions. Your APEGBC executive has entered a challenge in the open category. We welcome any other challengers to vie for first place. The rules for the competition are at http://civil.camosun.bc.ca/spaghetti_bridge/Rules.htm

The Spaghetti bridge competition will take place at the Interurban campus of Camosun College in Room 110 of the Technologies Building. The tentative schedule for bridge breaking:

- 3:30pm: Grades 6 – 9
- 4:00pm: Grades 10 – 12
- 4:30pm: Engineering Technology Students
- 5:00pm: Open Competition (all others)

This schedule would be adjusted depending on number of entries received.

The Dinner will take place in the Annex of the Helmut Huber Food Services Building. The social for dinner would start about 5:30pm. All members are welcome to attend. A map of Camosun campus can be found at <http://camosun.ca/about/campus-maps.html#iu>. Parking is available at any of the parking lots noted on the map for a cost of \$2 for 4 hours.

- Timings:
 - 5:30 – 6:30 Social
 - 6:30 – 7:30 Dinner

7:45 – 9:00 Guest Speaker – Tom Roemer, the Dean of Trades and Technology at Camosun College will speak on “New Roles for Community Colleges in Technology Transfer and Applied Science”

- Costs will be:
 - \$25 = All members and non-members
 - \$10 = Students
 - \$ 5 = Attendee for speaker only (meal not included, registration guarantees seating)
- Sign up on the web site at <http://www.me.uvic.ca/APEG.htm> or call 250-721-8896

If you have recently received your P.Eng., P.Geo, EIT or GIT and wish to receive your APEGBC certificate and complimentary dinner at this or upcoming events, please contact Eric Pettit, Branch Chair at eric.pettit@aecom.com or call 250 475-6355

Dr. Tom Roemer, MSc, EdD was born and raised near Munich, Bavaria (Germany). After a few years with the Air Force in Beja, Portugal, he attended both the University of Munich (LMU) and the University of Alberta, Edmonton, and obtained a Master's degree in astrophysics. After some time in Fort Smith in the Northwest Territories he founded a computer consulting firm specializing in database and application development in Kelowna, BC, and eventually ended up at Okanagan University College in their Electronic Engineering Technology department.

In 2007 he took over the position of Dean for the School of Trades and Technology at Camosun College in Victoria, BC, and finished his doctoral degree at Simon Fraser University with a dissertation on the identity and recognition of the Applied Science Technologist in British Columbia.

Dr Roemer says that 40 years after their inception, community colleges are still evolving. A recently adopted role is that of Technology Transfer and Applied Research centre. As university-based research increases in complexity and theoretical nature, colleges fill the gap by providing expertise and access to R&D for industry practitioners. Especially in challenging economic times it is important to establish a network of local centres of excellence to support industry innovation. Camosun's Vancouver Island Centre for Advanced Manufacturing and Prototyping as well as the Spirit Village project attempt to provide this type of living laboratory for both industry and students.

March 19th Dinner Meeting March 19th at University of Victoria

Development of Next Generation Hybrid Electric Vehicles – UVic EcoCAR

On May 22, 2008, the U.S. Department of Energy, General Motors and Natural Resources Canada announced the 17 winning teams from 70 competing proposals across North America to participate in *EcoCAR: The NeXt Challenge*, a collegiate vehicle engineering competition that began in the Fall of 2008.

We had a fascinating talk on the UVic Team for the EcoCAR challenge. Professor Zuomin Dong (Dept Mechanical Engineering) introduced the talk and set the stage for Jeremy Wise who is the team leader of the UVic challenge. In addition to the excitement and vast career opportunities for our students, a unique feature of this program is its integration with our curriculum. It brings considerable refreshment and enhancement to our undergraduate and graduate programs, as well as enabling research in related areas, such as the development of next generation hybrid vehicles.

The University of Victoria team is the only one of 17 finalists from the Western US and Canada and only one of three Canadian teams. After the first set of adjudications the UVic team is in first place – however there is a long way to go yet. A very encouraging start and one of which we should all be proud.



In the fall of this year, the teams will be given a 2009 Saturn VUE to achieve improved fuel economy and reduced green house gas emissions, while retaining the vehicle's performance and consumer appeal. The team plans to build on existing UVic research by incorporating advanced multi-regime hybrid powertrain architecture, leading battery, and clean E85 engine technologies in a Plug-in Hybrid Electric Vehicle (PHEV) design.

The Seventh Annual Richard Talbot Award Winners

Congratulations to our 2009 Talbot Award winners:

2009	Pamela Ruth Schmitt	Mechanical Engineering	3 rd year
2009	Joshua Zotzman	Electrical Engineering	3 rd year (Camosun Bridge)

They will join the list of our previous winners:

2008	Irvin Naidu	Electrical Engineering	4 th year (Camosun Bridge)
2008	Craig Bakker	Mechanical Engineering	3 rd year
2007	Jason Heinrich	Mechanical Engineering	3 rd year
2007	Steve Gillan	Electrical Engineering	4 th year (Camosun Bridge)
2006	Jason Wei	Computer Engineering	4 th year
2005	Robert Prinz	Electrical Engineering	4 th year
2004	Magnus Charles McElroy	Electrical Engineering	4 th year
2003	Thomas Owen	Mechanical Engineering	4 th year

APEGBC Career Listings

The **Career Listings** email is sent weekly and is a service of APEGBC. To receive the career listing email messages, log in to the APEGBC Member Portal and update your e-mail subscriptions.

Next Executive Meeting Wednesday 6th May 2009

When 5:30pm
Where AECOM – Suite 200, 415 Gorge Road East, Victoria

Spaghetti Bridge Competition – 30th April 2009

At the last meeting of the Branch Executive, it was agreed that the Executive would build a bridge and issue a “challenge” to others in the Engineering industry to submit bridges as well under the “Open” category. The date is Thursday 30 April.

Please note that each team is limited to four members. So the gauntlet is thrown – who will challenge your excellent executive?

The Civil Engineering Department at Camosun College will host the Sixteenth Annual Spaghetti Bridge Competition during **Open House April 30th, 2009**. This site will be updated as details become available.

The competition will be open to all, with separate competitions for the following four divisions:

- Grades 6 – 9
- Grades 10 – 12
- Engineering Technology Students
- Open Competition (all others)

The bridges are to be constructed entirely out of spaghetti and hot melt glue. The bridges will be loaded until they collapse. The bridges will be judged based on the ratio of the maximum load held before collapsing compared to the weight of the bridge. For the complete details see the official rules on http://civil.camosun.bc.ca/spaghetti_bridge/.

A Call for Volunteers

If you are interested in joining the Branch Executive or know of potential candidates please forward these names to the Branch Chair Eric Pettit at 475-6355 or contact any member of the executive (see last page of newsletter).

UVIC ENGINEERING STUDENTS' SOCIETY – INDUSTRY SOCIAL

The UVIC Engineering Students' Society would like to invite you to attend their inaugural Industry Social.

This special event is an exciting opportunity for sponsoring companies to send engineering representatives to communicate and network students, university faculty and other industry leaders. Your sponsorship is your ticket to attending the UVic Industry Social and participate in the evening events aimed at connecting students with potential employers on a personally interactive level. We encourage you to attend and look forward to seeing you at this important industry event.

The attendees for the evening will include representatives from at least ten engineering companies along with at least one hundred UVic Engineering Students and Faculty Members. We are honoured to have with us for the evening representatives from VIATeC and APEGBC.

The program will be broken into four parts;

- A casual pre-dinner social with cash bar
- A structured social activity to promote conversation and exchange of relevant industry information
- A dinner buffet with a keynote address from an industry leader
- A casual networking post dinner opportunity to interact and get to know each other

Date and Time: Thursday June 4th 6pm to 10 pm

Venue: Victoria Marriott Inner Harbour, 728 Humboldt Street, Victoria, BC

Sponsorship Opportunities

Sponsorship Packages are available to provide important exposure to a targeted and focused industry group of professionals.

Presenting Sponsor – One Available

- Category exclusivity to one company
- Naming rights: UVic Engineering and (company name) present the Industry Social 2009.
- Keynote after dinner speaker
- Six (6) complimentary tickets
- Cost: \$2,500+

Associate Sponsor – Three Available

- Secondary exposure on primary event banner
- Special recognition on the evening program
- Four (4) complimentary tickets
- Cost: \$1,000+

Supporting Sponsor – No Limit

- Logo placement on event banner and evening program
- Two (2) complimentary tickets
- Cost: \$500+

If you have any questions or comments, please contact the following at your convenience:

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smorriso@uvic.ca**OTHER EVENTS****APEGBC, Victoria Branch**

Victoria Branch Dinner Meetings are generally held the third Thursday night of every month from September to May excluding December. Everyone is welcome to attend the Branch Executive meetings held every month. Reminder. Our AGM is in May (more details to follow) if you are interested in running for a position on the executive, please contact the executive secretary (contact details see below) **Please plan to come out, have fun, learn something, meet someone and support your profession!**

Vancouver Island Chapter of APEGBC

The VI chapter would like to invite any of the Victoria chapter members to its monthly meetings.

APEGBC

APEGBC puts on a number of seminars and courses throughout the year. Although most of these are on the mainland there are a few on the island. The following is a list of those planned for the island in the next month or two. For a complete list and details please go to the APEGBC website at www.apeg.bc.ca

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

Please check the ASHRAE Vancouver Island Chapter for upcoming Vancouver Island Chapter meetings at www.ashrae.bc.ca/vi.htm.

Canadian Geotechnical Society (CGS)

Meetings are normally held the third Friday of each month from September to May, excluding December. For details, the website is <http://www.cgs.ca/english/reg-div/vic-loc.html#news>.

Engineering Institute of Canada (EIC), Vancouver Island Branch

For information on the next meeting, please link to: <http://civil.camosun.bc.ca/vib-eic/>. Luncheon Meetings occur on the first Friday of the month (except July and August). For details, call Bruce Barnewall at 356-0762 or e-mail Bruce at bruce.barnewall@gov.bc.ca

Canadian Institute of Transportation Engineers (CITE), Vancouver Island Section.

For more information please see <http://www.citebc.ca>

The Vancouver Island Advanced Technology Centre (VIATEC)

VIATEC is the conduit that connects people, knowledge and resources to grow a successful technology sector on Vancouver Island. To learn more about VIATEC go to www.viatec.ca.

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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