CONGRATULATIONS

Michael Nkemtitag (PhD) Dec’06 currently working for Trow in Ottawa, ON
Katie Sproule (M.Eng) Claire Milloy (MSc) Nov’06 currently working for Beatty & Associates Ltd in Bolton, ON
Sarah Foster (MSc Eng) Dec’06 currently working for CBCL in Halifax, NS
Yazan Gaxrwi (MSc Eng) Feb’07 currently working for CBCL in Halifax, NS
Michael Ranger (MSc Eng) Apr’07 currently working for Brook Van Dalen & Associates in Nepean, ON
Whitney Szabo (MSc Eng) Mar’07
Simon Guadina (PhD) June ’07 currently working for GeoSyntec in California
Zheng Tan (MSc Eng) Aug ’07 currently working for SNC Lavalin in Toronto, ON
Yibing Zhang (PhD) Apr’07 currently working for Ontario Power Generation in Niagara Falls, ON
Bill Pain (MSc) Apr ’07 currently working for AMEC in Toronto, ON
Andrew Bandler (MSc Eng) Sept ’07 currently working for Barrick Gold in Nevada, USA
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Anamika Sikdar (PhD) May ’07 currently working for AMEC in Mississauga, ON
Julie Burghardt (MSc Eng) Dec ’07
Brenda Cooke (MSc Eng) Nov ’07

research. The quality of our students continues to improve, and their contributions outside this department and university continue to amaze me. Our department continues to grow at an amazing rate, with over 115 students entering 2nd year and over 120 graduate students. This student load is taxing our resources, faculty and staff and facilities.

We have just completed a review of our graduate program, mandated by the Ontario Council of Graduate Studies (a 7 year cycle) and are in the midst of a university mandated Internal Academic Review and preliminary indications are that our department has evolved into an exceptionally efficient, productive department with a wide reaching reputation for high quality students and research.

Research is flourishing in the department and our faculty have brought in over $36 million in research funding over the past year, leading the nations civil engineering departments in research dollars per faculty member. A large portion of the very innovative research is being undertaken with strategic industry partnerships. Much of our research is forming the basis for new guidelines, design manuals and policy for civil engineering practice. With the addition of our new faculty hire, Dr. Yves Filion, who is introduced later in this newsletter, we have embarked on a new research and teaching theme centered around public health engineering.

Our new second year students (class of 2010) had a rousing start to their civil engineering education with participation in CIVIL WEEK, a week long course implemented in the first week of the fall term in which students are immersed in the development of professional skills. The week culminated with a highly successful water balloon launch competition at west campus. In addition, these students are participating in new courses dealing with mathematics for civil engineers and chemistry and materials for civil engineers, forming the basis for new guidelines, design manuals and policy for civil engineering practice. With the addition of our new faculty hire, Dr. Yves Filion, who is introduced later in this newsletter, we have embarked on a new research and teaching theme centered around public health engineering.

I hope you enjoy the newsletter and if you have any ideas or suggestions about how you can help the department succeed or how the department can assist you in your endeavors, please contact me at bhall@ce.queensu.ca or phone (613) 533-2127.

I have traveled the country in the past year meeting with alumni and industry in order to establish endowment funds to allow us to undertake groundbreaking initiatives outside of our normal budgeting allocation. So far we have managed to raise over $2 million. We are also in the midst of raising money to develop a larger, more modern structural engineering laboratory at west campus site alongside our existing large-scale water and geotechnical facilities.

Please send comments and or news to:
CIVIL ENGINEERING

www.civil.queensu.ca • tel. 613 533 2122 • fax. 613 533 2128
Concrete Toboggan Team 2007

The Great Northern Concrete Toboggan Race (GNCTR) is a university design competition held annually in a major Canadian city. It has been a legitimate Canada wide design competition since 1976 and involves the design, construction, and racing of concrete toboggans. The four-day event is attended by over 20 of the country’s most prestigious schools and includes races, technical exhibits, oral presentations, reports and a final award ceremony.

Students design and mix the concrete as well as design and build the superstructure of the toboggan. The teams are evaluated based on the toboggan design, speed, braking and steering, aesthetics, a technical report and oral presentation, and spirit.

In February of 2007, the Queen’s team of 30 students competed in Winnipeg, Manitoba. The team was extremely pleased with the toboggan’s performance and our third place overall standing. This was the

Concrete Canoe Team

This past year, Queen’s hosted the 13th annual Canadian National Concrete Canoe Competition. This brings together engineering students for a three day competition where they present the canoes they have been working on for the past several months, and then take them on the water for a race. Students learn new software as they create and analyze potential designs then begin to build the canoe. A long time is spent testing various concrete mixes, as the canoe has to float after being fully submerged. Our team always tries to incorporate something new into the design, and this past year we entered the first post-tensioned canoe in the history of the Canadian competition. It ended up being the heaviest canoe, coming in at 454lbs. In spite of the weight, it still floated and we placed 8th overall. We are looking to improve on this at the 2008 competition in Halifax by developing a new construction method that will allow us to better control the hull thickness. We would like to thank everyone who contributed to the team, as we would not have been able to be as competitive or incorporate post-tensioning into the design without corporate and alumni support.

More information can be found at the Queen’s Concrete Canoe website (http://grad.ce.queensu.ca/canoe/) or the CNCCC website (http://www.cnccc2008.ca/). If you have any questions, feel free to contact the team at canoe@engsoc.queensu.ca.

Industry Open House

This year’s OPEN HOUSE was a GREAT SUCCESS with 27 PARTICIPANTS!

Thank you to this year’s participants:

- Kimley-Horn and Associates Inc.
- Marshall Macklin Monaghan
- Acme Civil and Utilities
- EllisDon
- Peter Kiewit
- Armtec Limited
- Golden Associates Ltd
- Halsall
- McCormick Rankin Corporation
- Hatch Hatch Energy
- Isherwood Associates
- Birmingham Foundation Solutions
- MTO
- Neegan Burnside Ltd
- Temprobit
- EBA
- Hatrow Yolles
- Stantec Consulting Ltd.
- Read Jones Christoffersen Ltd
- Oconor Associates
- J.L. Richards & Associates
- O’Brien & Gehr
- McIntosh Perry Consulting Engineers
- Jacques Whitford Ltd
- Toten Sims Hubicki
- Gartner Lee
- The Sernas Group Inc.

On January 24, 2008 we will be hosting our 11th Industry Open House.  Please contact Cathy Wagar (Industry Open House Co-Ordinator) at 613-533-6000 (ext 74227) if you or your company would like to participate this year.
Where are you now?
If you are in this picture contact us and let us know what you are up to these days. First response in wins a civil water bottle and carabiner. (Hint, this is the 2005 Science Formal wine and cheese event)

RESEARCH PICTURE OF THE YEAR
Congratulations to Bryson Robertson (graduate student) for having the dubious honour of being photographed while carrying out field research. Bryson was caught on location in Tahiti, during part of his three year voyage around the world studying the mechanics of surf breaks. Catch up with Bryson at www.saltosurf.com

Competitive Teams
first year that carbon fibre was introduced as an element of the roll cage. This year’s team hopes to continue building on the innovations of last year for our competition in Sherbrooke, Quebec.

Civil Club
Civil Club is a group of elected students who organize and host undergraduate events throughout the year. The events are held and run to encourage participation of second, third, and fourth year students, so that they can get to know one another and socialize. This year, a primary goal of Civil Club is to increase participation of the earlier years so that they can meet more upper year students, potentially providing them with support in homework, joining intramural teams, and getting involved with the civil design teams.
Another year of interesting and exciting happenings in and about China for Bruce Anderson. He was part of a 3-man presentation team at the China Academy of Social Sciences meeting in Beijing (China-Canada Symposium on Social Inclusion and Economic Development: Improving Mutual Understanding). In June, Bruce was a Visiting Professor in the State Key Laboratory of Estuarine and Coastal Research at East China Normal University, Shanghai, for the second year in a row. He also had the chance to kick back with some monks at a mountainside forest reserve in Ningbo, but that was mainly a pleasure trip.

Currently, the first student to be involved in Bruce’s work is spending one year at Queen’s as a Visiting Research Student. Huang Huamei will be co-supervised in her Ph.D. program by Bruce and her current supervisor at East China Normal University (Prof. Zhang Liquan).

Bruce will be in Singapore in January 2008, at the International Water Association Biofilm 2008 conference, singing the praises of Kingston’s upgrade of the Ravensview Water Pollution Control Plant). Please call, email or drop by if you are interested in the details.

Filion Intro 2007

We are pleased to announce the appointment of Dr. Yves Filion as Assistant Professor in this department. Yves earned his Ph.D. at the University of Toronto for his work in uncertainty analysis and design of drinking water systems. His research focuses on the human health risk and sustainability of drinking water systems. He has also been involved with assessing climate change impacts on our water resources and has conducted groundbreaking research into the design and operation of public water supply systems. Much of his work has involved application of advanced mathematical modelling techniques, which would provide a good framework for collaboration with other public health researchers at Queen’s.

Renewal, Tenure And Promotion

Andy Take has had his appointment renewed as of July 1, 2007. Colin MacDougall has received Tenure and Promotion to the rank of Associate Professor as of July 1, 2007 and Ana da Silva and Kent Novakowski have been promoted to the rank of Professor.

Congratulations to all for well deserved recognition.

Congratulations to Luke Bisby who received both the Golden Apple Teaching Award and the Golden Pillar Award this year.

New Editor for the Canadian Geotechnical Journal

On April 1, 2007, Dr. Ian Moore was appointed for a five year term as the Editor of the Canadian Geotechnical Journal. Dr. Moore is Professor and Canada Research Chair in Infrastructure Engineering in the Department of Civil Engineering and Executive Director of the GeoEngineering Centre at Queen’s-RMC. Ian was first appointed to the Editorial Board of the Journal in 2000. The Canadian Geotechnical Journal is a highly regarded leading geotechnical journals and published contributions with the greatest relevance to practitioners.

Ian is not the first member of the Department to hold this prestigious position. Dr Robert Mitchell was Editor of the Journal for five years in the 1990’s.

ANNUAL ISIS CONFERENCE
ST. JOHN’S, NEWFOUNDLAND May 2007
AWARD WINNERS:

Student Poster Competition
(Materials Science and Innovative Structures)
1st Place (and Best of Conference): Ershad Chowdhury, Masoud Adelzadeh, Xiumei Duan
2nd Place: Jeff Mitchell, Hart-Honickman, Jekuk Son

MSc Student Presentation Competition
1st Place: Paul Burke
Best Overall Graphics, MSc
Jeff Mitchell
Student Poster Competition
(Structural Strengthening and Rehabilitation with FRP’s)
3rd Place: Peter Mitchell and Paul Burke

Advancement News
for Civil Engineering Newsletter

Our alumni and friends from the Department of Civil Engineering have a long standing tradition of being engaged and involved. Your support allows us to enhance the quality of the educational experience for our students by funding academic chairs, library resources, industry collaborations, and curriculum initiatives. Our students are able to realize their life goals with the invaluable financial support from endowed scholarships and bursaries. As well, gifts to the Department allow us to advance our research efforts with new facilities and equipment.

In the Advancement office, our role is to help achieve the educational, professional, and strategic goals of Civil Engineering at Queen’s. For more information on supporting Civil Engineering at Queen’s, or other giving opportunities, please contact:

Joanne Grills, Faculty Projects Assistant
Ph: 613-533-6000 ext. 75248
e-mail: grillsj@queensu.ca

Jane McMillan, Senior Development Officer
Ph: 613-533-2160
e-mail: jane.mcmillan@queensu.ca

Hilary Sirman, Senior Development Officer
Ph: 613-533-3129
e-mail: hilary.sirman@queensu.ca

Lisa Woodcock, Faculty Advancement Officer
Ph: 613-533-6000 ext. 74594
e-mail: lisa.woodcock@queensu.ca
News & Notes

Bruce Anderson - All China, all the time (almost).

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Hilary Sirman, Senior Development Officer
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e-mail: hilary.sirman@queensu.ca

Lisa Woodcock, Faculty Advancement Officer
Ph: 613-533-6000 ext. 74594
e-mail: lisa.woodcock@queensu.ca
The Concrete Toboggan Team is an excellent opportunity for students to apply the technical skills they are learning in the classroom to a practical engineering problem. It also gives students a chance to develop interpersonal, fundraising, budgeting, and communication skills. To remain innovative, the team is always looking for sponsorship. More information about the team can be found on our website: http://grad.ce.queensu.ca/toboggan/ or by email (toboggan@engsoc.queensu.ca).

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Birmingham Foundation Solutions
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Neenan Bermuda Ltd
Temprograde
EB&A
Hallgow Yolles
Stantec Consulting Ltd.
Read Jones Christoffersen Ltd
Oconnor Associates
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Please send comments and or news to:
Lloyd Plymale, Department Manager
Department of Civil Engineering
Ellis Hall
58 University Avenue
Kingston, ON K7L 3N6

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If you didn’t take advantage of last years offer to give all our graduating engineers (past and present) an email address for life, in the format X.Jones@ce.queensu.ca, its still not too late. Simply contact Bill Boulton at bill@ce.queensu.ca and he will arrange it.

I hope you enjoy the newsletter and if you have any ideas or suggestions about how you can help the department succeed or how the department can assist you in your endeavors, please contact me at hallk@ceivil.queensu.ca or phone (613) 533-2127.

Welcome to the 2007 edition of our Building Partnerships newsletter, which is intended to provide Civil alumni with a summary of activities within the department. Our faculty, students and alumni continue to win key awards and honours in all aspects of engineering and society and you will read more about these in the following pages.

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The Department is continuing to strengthen our relationship with industry through research and undergraduate teaching initiatives such as the Job Network, Industry Open House, Engineering Forum, Curriculum Development, Collaborative Research and a successful fourth year industry based design course.