Welcome to the 2012 edition of our annual Building Partnerships newsletter. This will be the last edition under this banner as we are looking to revise and update our approach to communication with alumni and friends of the Department. You will hear more from us on this front in the upcoming months.

Although this was a quiescent year for comings and goings as this is the first year in many that we haven’t welcomed or bade farewell to a faculty or staff member, there were many other events worth noting. In particular the Department continues to have great success in the recognition of our research programs. For example we were identified in a June, 2012 report entitled “Making Research Count: Analyzing Canadian Academic Publishing Cultures” by the Higher Education Strategy Associates (Google the company and you will be led right to the report), as the leading Canadian University with the highest H-index, and is increasingly used world-wide as an indicator of research quality.

During the course of each year, I meet with the undergraduate and graduate students in an open forum to discuss issues and concerns that might be on their minds. This has proven to be a very enlightening exercise, and has also identified a few areas that we will address so as to improve the student experience and learning outcomes in our Department. In particular the focus on technical electives in the latter half of 4th year has been raised as an area for potential improvement by the undergraduate students, and our Departmental Curriculum Committee has developed a plan to broaden the numbers and timing of the electives in coming years.

This year we experienced a substantial decline in incoming 2nd year students from 108 the year before to 80 in September, 2012. Although the reasons for this are not clear, we are confident that this is not a trend, and that enrollment might be stabilizing around this number. At the same time, we have the largest number of students ever in our 4th year design course this year leading to a total of 31 projects. The range in topics is very broad, and there are many industrial partners who interface directly with the students over the course of the year. For those companies who might be looking to hire over the next few years, partnership with us on the design course allows for a great opportunity to “test-drive” some prospective employees.

As you may recall from last year’s Newsletter we underwent an inspection by the Canadian Engineering Accreditation Review Board (CEAB) at the end of 2011. We can now report that we have passed the inspection with flying colors, and have been granted accreditation for a further six years (the most allowable).

In June of this year the RBC-Queen’s Water Initiative was announced by Gord Nixon, CEO, Royal Bank of Canada, at a formal ceremony in Beamish-Munro Hall. The Initiative is supported by $2,000,000 from the RBC Bluewater Program, the largest such gift ever granted by RBC. The focus of the Initiative is on healthy watersheds and includes funding for a training center located at the Kennedy Field Station, owned by our Department. Although the Initiative is multi-disciplinary, the funding will be administered by our Department. More detail on the objectives and plan are provided in the following pages.

In a related event this October, the Queen’s Centre for Water Research was given Senate approval. The Centre includes more than 40 faculty members from a variety of departments across campus (and RMC) who conduct water-related research. The Centre is hosted by our Department and I act as the Director. The objectives of the Centre are to foster multi-disciplinary research, provide for greater responsiveness to water issues, and to improve the graduate student experience in this research area.

Fundraising remains an important focus in our Department, and we noticed during the year that many of the smaller contributions aimed directly at our program have diminished significantly relative to previous years. To help make these types of contributions easier, we will be putting a donation portal directly on our web site. Please stay tuned for that, as we hope to open the portal soon. If you have any additional suggestions for fundraising (small or large), we would be grateful to hear them. Also, if you wish specific information on what you read herein, please contact me at kent@civil.queensu.ca or via phone (613) 533-6417.

Kent Novakowski

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The Great Northern Toboggan Race takes place yearly, bringing over 400 students from top universities across the world to one place. This past year, our team travelled to Calgary, Alberta where we met with students from various disciplines who had been working since the previous year to create a functional toboggan design, concrete skis, as well as technical exhibit. The goal of the competition is to earn points in various categories including safety, spirit, toboggan functionality and concrete properties to name a few.

This past year our team placed 3rd overall, winning the Circa Award for best use of fly ash in our concrete, as well as showing Queen’s unique energy and enthusiasm by winning the Spirit award as well. This coming year in Vancouver, we plan on maintaining our high standings with overall rankings.

One of the categories at GNCTR includes costumes, and it is tradition to dress up in a themed costume throughout the length of the competition. This past year we were firefighters and this coming year, our theme is baseball. We hope to dazzle people in new and unique ways with our costumes as well as baseball diamond technical display.

We would like to thank you for the help that allowed us to travel to Calgary last year to have such an amazing experience as well as a great learning environment.

Queen’s Concrete Canoe Team
http://www.civil.queensu.ca/Undergraduate-Student-Clubs-Teams/Concrete-Canoe.html

This year, the Queen’s University Concrete Canoe Team is experimenting with new materials to build our best canoe yet! After a disappointing transport mishap to May 2012’s competition in Moncton, New Brunswick, led to our canoe breaking before we could race it, we are determined to build the strongest possible canoe this year. To gain greater control over the outside of the canoe and improve its hydrodynamic properties, we are trying out a new method with our form: a fibreglass female mold. In the past few years we have been using a male mold with mixed results. The hope is that with a female mold, we will be able to cut down on the amount of finishing and will have greater control over reinforcement placement and overall hull thickness. As well, we are looking into the addition of structural elements such as ribs to improve the overall strength of the canoe. We will find out at this year’s competition, May 17-19th, 2013, in Montreal how well it all works out for us! As always, we are incredibly grateful to the Faculty of Engineering and Applied Science, The Department of Civil Engineering, the Engineering Society, and our sponsors for their continued support!
Civil Club

http://www.civil.queensu.ca/Undergraduate-Studies/Student-Clubs-Teams/Civil-Club.html

Over the past year the Civil Club has continued with its initiatives designed to improve the quality of student life in Civil Engineering. The committee of 13 members, elected by the undergraduate class, facilitates extra-curricular activities in three areas: academic, social and athletics. The club has continued its success with a peer tutoring program, by helping those students who fall behind in a given course find an upper year student who has excelled in that subject in past years.

The club’s second annual Civil AutoCAD course, which gives students vital exposure to this software that is so critical in Civil Engineering, was also a success. The club aims to host social events where students and faculty can interact in a setting outside the classroom. Pool with Profs, the Welcome Back BBQ and Civil Bonspiel are just three examples of the events where professors and students can connect on a personal level. The annual Civil Trip gives the students a chance to head down to a major American city to explore the culture and history that it has to offer. This year we are excited to be visiting Boston. The club also supports numerous intramural teams, with civil students competing in three different sports this year.

In January 2013, Civil Engineering students Olga Khuskivadze, Mikhaela Meznaric, Rachel Hawkins and Keelin Scully will be representing the Queen’s Engineers Without Borders (EWB) Chapter at the EWB National Conference in Calgary, Alberta. This is Canada’s largest annual engineering and development conference. During this three-day conference, EWB members are able to share, learn and work together with overseas staff, Canadian staff, the board of directors, and change leaders within and across borders, all in one place.

Olga, Mikhaela, Rachel and Keelin are in the final year of their civil engineering degree. Olga and Mikhaela are the co-presidents for the Queen’s chapter, Keelin organizes the weekly workshops and discussions at the university, and Rachel runs workshops in high schools and elementary schools in Kingston.
A $2 million gift from the RBC Blue Water Project was awarded to the Department (led by Kent Novakowski and Geof Hall) to develop a multi-disciplinary, world class watershed research, education and outreach program. This initiative will create exciting new opportunities for students, faculty and the general public regarding the health and sustainability of our watersheds. One of the critical challenges in education is bridging the gap between classroom theory and hands-on, real-world experience. This gift represents a fundamental foundation upon which we will develop the tools and experiences needed to engage students of all levels and from faculties and departments across Queen’s, in order to instill the importance of watersheds and the role students can play in protecting, enhancing and preserving them.

Many of the programs will be centred at the Kennedy Field Station, a 55 hectare site located north of Tamworth, Ontario. This Station is situated in a sensitive geological setting and is part of the Salmon River Watershed, a tributary of the Great Lakes. The site offers a unique opportunity to train the leaders of tomorrow in the complex watershed issues which are facing water resources across the country and which combine to affect environmental and human health, along with industrial and commercial sustainability. The Kennedy Field Station itself will feature enhancements that will allow students to participate in hands-on, field-intensive courses at the undergraduate and graduate levels.

The Station will also be centre of a new model watershed, unique in its ability to shed light on the complex interactions occurring within watersheds across Canada and around the world. Sensors and data collection nodes will be placed along the length of the Salmon River watershed and will generate an unprecedented volume of real-time data that will be openly available to users from primary school science classes to the highest academic circles, in order to further our understanding of the importance of healthy and sustainable watersheds in our daily lives.

Dr. Duncan Cree is building collaborative research relationships in France. This past summer, Dr. Cree conducted work at the Université of Cergy Pontoise, France. The area of study was thermal-mechanical properties of high strength concrete containing steel, polypropylene and a combination of both fibres. When dense concrete is heated to elevated temperatures, it has the tendency for explosive spalling. The variables tested were; compression strength, permeability, thermal conductivity, explosive spalling and microstructure analysis. He will return in the near future.
Pascale Champagne has been named the Tier 2 Canada Research Chair in Bioresources Engineering. Her areas of research include integrating lower environmental impact technologies and green chemistry to establish a future supply of green and sustainable bio-based energy, fuel material and chemical products. The CRC program invests up to $300M to attract and retain some of the world’s most accomplished and promising minds.

Kevin Mumford was awarded a CFI grant (Canada Foundation for Innovation) and matched by MEDI (Ontario Ministry of Economic Development and Innovation) in August 2012. Title: “Laboratory for multiphase flow and mass transfer in porous media”. Description: The new laboratory will include experimental and analytical equipment designed to conduct detailed investigation of multiphase flow and mass transfer in porous media, particularly in relation to the contamination and remediation of brownfield properties by hazardous industrial liquids, whose redevelopment is important for sustainable urban growth. The laboratory will be equipped with a flow cell system to conduct intermediate-scale experiments using a variety of gases, contaminants, groundwater, and remediation fluids. It will also include a visualization system and equipment to measure the interfacial properties of fluids under controlled environmental conditions to better understand their behaviour, in order to optimize existing and develop new clean up technologies.

Yves Filion received the Early Researcher Award from the Ontario Ministry of Economic Development and Innovation. These awards help promising, recently-appointed Ontario researchers enhance their work and develop their research team. Yves Filion is using the award to develop a platform of models to help municipalities across Ontario improve their response to aging water mains. His innovative approach will help provide sustainable drinking water and save money on repair and emergency costs.

The Engineering Institute of Canada awarded Dr Kerry Rowe the institute’s highest honour, the Sir John Kennedy Medal. Their award citation notes that “he is known for his seminal and outstanding contributions to the engineering science and practice of Geoengineering. Kerry Rowe has led international research efforts in both Geosynthetics and Landfill Engineering, transforming practice in Canada to the highest level internationally, and reaching across boundaries to guide the development and implementation of engineering science on these topics in many countries. The award was presented at the 125th Anniversary Celebration in Edmonton in June.

In November, Dr. Rowe was also awarded The Queen’s Elizabeth II Diamond Jubilee Medal. This medal is a way for Canada to honour Her Majesty for her service to this country and, at the same time, honours significant contributions and achievements by Canadians.

In February, The Canada Council of the Arts announced that Kerry Rowe was one of seven Canadian scholars (and the only engineer) to be awarded a Killam Research Fellowship. This Fellowship is among Canada’s most distinguished research awards, providing $70,000 a year for two years to each of the researchers. They enable researchers to be released from teaching and administrative duties so that they can pursue independent research.

Kerry Rowe was also invited to present the Indian Geotechnical Societies most distinguished lecture, the IGS-Ferroco Tezaghi Oration. This lecture, which honours the worlds most distinguished geotechnical engineers, is presented every two years. Rowe’s lecture, presented to a packed auditorium at IIT Delhi in New Delhi on 5th October 2012.

Ryan Mulligan had a busy hurricane season as he was sought after by the media for his expertise on Coastal and Oceanography Engineering. He was interviewed by the University News and Media Services about Hurricane Issac which caused severe damage to Gulf Coast of the USA in late August and again in November by thestar.com for an article titled “Hurricane Sandy: Ten reasons it’s awesome, but not in a good way”.
Our Graduate Students Excel

Students Awarded Michael E. Argent 1 Scholarships at No-Dig

Scholarship Winners
Mohamed Almahakeri, Queen’s University
Samuel Betten, Vanderbilt University
Matthew Olson, Arizona State University
Olalekan Sodeinde, Vanderbilt University
Stephen M. Welling, Virginia Tech

Mohamed Almahakeri is a research assistant and a Ph.D. candidate at Queen’s University, Canada. His experimental and numerical research program focuses on the longitudinal behavior of energy pipelines due to ground movements. He serves as the president of the NASTI student chapter at Queen’s University. Some of his activities in the chapter are promoting the NASTI’s activities and goals, informing students about general trenchless technologies, encouraging them to join the chapter and attending the No-Dig Show. He also helped organize field trips for students to monitor projects utilizing trenchless technology. Almahakeri is a member of the Professional Institute of Pipeline Engineers (PIPE), the American Society of Mechanical Engineers (ASME) and the American Society of Civil Engineers (ASCE).

By Annie Chouinard

At the end of 2002, the official rate of municipal wastewater treatment in China was approximately 36.5 percent. Due to the severe impacts of urban development on water quality in Binhai New Area, Tianjin, and the HaiHe River basin, the proposed solution is the implementation of two constructed wetlands (CWs) at Tianjin Airport Economic Development Zone. In collaboration with Tianjin University, the Centre for Alternative Wastewater Treatment at Fleming College in Lindsay, Queen’s University in Kingston, and Aqua Treatment Technologies, this location has been selected as a demonstration site for wetlands technology in a rapidly developing urban area, to address the issues of surface water degradation. Construction is nearly completed on the first surface flow CW, which consists of basins and channels with soil that will support rooted vegetation, which in turn will induce low water flow velocity for treatment. The treated water will be reused as surface water on the site, or released back to the canal surrounding TAEDZ. It is expected to improve the water cycle of the area and the water quality of the canal, which currently have water rated Grade V, the most degraded level, rendering it unfit for industrial or agricultural use. After extensive applications in similar geographic and climatic regions in Canada such as the prairie region and southwestern Ontario, the technology may eventually benefit Canadian communities as well.

Credit: Brent Wootton

Metro Basin Blues
By Annie Chouinard

Though blue-green algae might have an effect on human health, severe blooms do not deter swimmers in some parts of China.
Graduate Students Activities

The Department of Civil Engineering includes more than 100 graduate students from diverse cultural and academic backgrounds. These students engage in leading edge research in every discipline of civil and environmental engineering in the lab, in the field and through a variety of industry co-op programs. Students from the department excel not only in their research but also in their many classes and extracurricular activities. They attend conferences in Canada and abroad, participate in university governance in and outside the department and support courses through tutoring and teaching assistance. The graduate student body, through the Civil Grad Club executive committee, organizes the Robert and Joyce Jones weekly speaker series. This series, generously supported by Robert K. Jones (Science 1952) and A. Joyce Jones (Arts 1953), is a unique aspect of the department. Every week, the series brings industry and academic professionals to the department for a presentation and discussion of the state of the art in their fields. It is a valuable learning opportunity and supports the department’s strong emphasis on industry linkage. Students also participate in great social events such as golf tournaments, BBQs and Christmas parties. This year, graduate students teamed up with Habitat for Humanity to spend a day volunteering on a Kingston build site. 12 graduates (pictured below) built framing for a deserving local family and raised money in what is anticipated as a yearly partnership. The activity is a natural fit for the department.

this is a partial list of our student’s accomplishments this past year:

- Annie Chouinard, MASC, presented at the 47th CENTRAL Canadian Symposium on Water Quality Research (CASW ACQE)
- Van Thien Mai, MASC, presented at the North American Society for Trenchless Technology (NASTT) No-dig Show 2012
- Daniel Jones, PHD, presented at the Contaminants in Freezing Ground 8 (CFG8)
- Reza Valipour, PHD, presented at the 55th annual Conference on Great Lakes Research and the St. Lawrence River Ecosystem (IAGLR 2012)
- Aiden Jabbari Sahebari, PHD, presented at the 55th annual Conference on Great Lakes Research and the St. Lawrence River Ecosystem (IAGLR 2012)
- Ashley Verge, MASC, presented at the GeoAmericas 2012: The Second Pan American Congress on Geosynthetics
- Mark Nelson, PHD, presented at the Canadian Precast/Prestressed Concrete Institute (CPCI) summer conference 2012
- Matthew McCombs, MASC, presented at the 55th annual Conference on Great Lakes Research and the St. Lawrence River Ecosystem (IAGLR 2012)
- Hadiseh Bolkhari, PHD, presented at the 55th annual Conference on Great Lakes Research and the St. Lawrence River Ecosystem (IAGLR 2012)
- Jack Wallace, MASC, presented at the Canadian Society for Civil Engineers, Leadership in Sustainable Infrastructure
- Vanessa Mann, PHD, presented at the International Conference on Groundwater in Fractured Rocks (GwFR2012)
This year’s **OPEN HOUSE** was a **GREAT SUCCESS** with **31 PARTICIPANTS**! from industry and government!

Thank you to this year’s participants:
- AECOM Canada Ltd.
- Anchor Concrete
- BGC Engineering
- Conestoga-Rovers & Associates (CRA)
- ConeTec
- Construction Control
- Counterpoint Engineering
- Decommissioning Consulting Services Ltd.
- EBA, A Tetra Tech Company
- Ellis Don Corporation
- Genivar

Golder
- Halsall Associates
- Hatch Mott MacDonald
- Isherwood Associates
- J.L. Richards & Associates Ltd.
- Knight Piesold Consulting
- Malroz
- Maple Reinders Constructors Ltd.
- McIntosh Perry Consulting Engineers Ltd.
- Ministry of Transportation
- MMM Group
- Neegan Burnside Ltd.
- O’Connor Associates
- Peter Kiewit Infrastructure Co.
- R.V. Anderson Associates Ltd.
- Read Jones Christoffersen
- Stantec Consulting Ltd.
- Terraprobe
- The Sernas Group
- Thurber Engineering

The 2013 Industry Open House will be held on January 24, 2013, and again we are anticipating large number of companies attending. Please contact Cathy Wagar (Industry Open House Coordinator) at 613 533 6000 ext 74227 for more information.

Drs. Mark Green and Amir Fam continue their research collaboration with Revolutionary Concrete Solutions (RCS) looking into the performance of a new coating that protects concrete and steel reinforcement from deterioration due to moisture intrusion. After studying the permeability of coated concrete, in collaboration with Dr. Kent Novakowski, the project has been extended through a new $34K funding recently obtained from Ontario Center of Excellence (OCE), Industry Academia Collaboration Program-Technical Problem Solving (TPS), and RCS to study the effect of coating the concrete surface—or the steel rebar—on the rate of corrosion of the steel rebar, which is anticipated to be reduced. The project involves research assistants Greg Shier and Paris Pei.
Industry Partnership with Bombardier Transportation Continues On Track ………

Drs. Amir Fam and Mark Green are investigating the use of fibre reinforced polymers (FRPs) in reinforced concrete construction used for rapid transit infrastructure. The partnership which began more than a year ago, involves the field testing of full size segments of Bombardier Transportation’s test guideway in Millhaven, Ontario, as well as laboratory testing on scale-down specimens. This partnership provides a unique opportunity for full-scale testing in a controlled environment, as well as providing industry with direct feedback on their design’s performance.

With the completion of the network of instrumentation on site, and the fabrication of lab specimens, graduate student Nik Wootton will be conducting both field tests and cyclic fatigue tests in lab during the new year. The picture shown is of the completed test track and shows one of the girders fully reinforced by fiberglass (glass-FRP) bars in flexure and shear. These tests will help to understand the performance of glass-FRPs in rapid transit infrastructure and help to optimize their design.

Landslide Monitoring

Recent Alumni will remember the Mud Creek landslide field site in Ottawa. As part of the hands-on learning experience of Civil Week, all third year Civil engineering students visit the landslide as their initial introduction to their courses on geotechnical engineering. The landslide is situated on a small tributary of Green’s Creek in Ottawa called Mud Creek where erosion relentlessly eats away at the base of the 11 m high creek bank making it increasingly unstable. The slope material is sensitive Champlain Sea clay – known for its particular susceptibility to spectacularly retrogressive landslides. Researcher Andy Take and his graduate students are collaborating with ConeTec Site Investigation to develop novel site investigation techniques to better understand the highly complex evolution of landslides in these materials through cone penetration testing (CPT) and slope deformation monitoring using an unmanned aerial vehicle (UAV), high resolution aerial photography, and digital photogrammetry.
Moving in and moving on to the next phase
By Lloyd Rhymer

The Department submitted a five year space plan to the Dean outlining our renovation objectives and we are now in year one of this plan. Asbestos lined fume hoods located in the basement labs were replaced and a facelift was made to our 55 year old benches (photo right). This initiative was funded through the university’s deferred maintenance program and through the W&C Hewitson endowment fund. The Faculty of Engineering and Applied Science also funded two new labs in Ellis Hall; the Clean Water Lab, and the BioSafety Lab (photos below). New equipment for these labs is being funded by the Canadian Foundation of Innovation and various other research grants and contracts.

A significant component of this plan is intended to recover space in the Coastal Lab located on West Campus and free up space in Ellis Hall for the structural, geotechnical and environmental groups as well as the addition of new teaching laboratories. The first phase is to move the Hydraulics Laboratory in Ellis Hall to the Coastal Laboratory. The demolition work has been done and the rebuilding of a new Hydraulics Lab is underway. The photo on right shows an excavator with a hoe ram in the Coastal Lab breaking up the oscillating water flume.
Field Trip to the Coastal Lab

Drs. Ana da Silva, Andy Take, Leon Boegman and Ryan Mulligan profiled their research and demonstrated their unique research facilities at the Coastal Laboratory for this year’s Queen’s MiniU field trip organized by Queen's Alumni Relations. Dr. Mark Green welcomed the 30 alumni participants and gave an overview of the Department. Students, Sarah Bryant, Arash Kanani, Matthew McCombs and Esther Gomes assisted with the demonstrations. The Queen’s MiniU is a program for alumni with a shared interest in life-long learning to connect with stellar Queen’s faculty.

Future Donation Page on Our Web Site!

Your Development & Alumni Relations Team

We are proud to say that alumni and friends of the Department of Civil Engineering have a long standing tradition of being engaged with the Department.

Your support and involvement allow us to enhance the quality of the educational experience for our students. There are many ways to help: through student internship or employment opportunities, design and research topics and sponsorships, industry collaborations and curriculum initiatives, or as a guest speaker.

Financial support is particularly important and the Faculty has just launched the Inspiring Greatness: Campaign for Queen’s Engineering. This Campaign will provide critical support for new and innovative programming, infrastructure, teaching and research, and student activities. We invite you to learn more by visiting www.inspiring.engineering.queensu.ca.

We have a dedicated team to help alumni reconnect with the Department. For more information on supporting Civil Engineering at Queen’s, please contact:

Jane McMillan, Director of Development  
Ph: 613-533-2160 ext. 32160  Toll Free 800-267-7837  
Email: jane.mcmillan@queensu.ca

Michelle Miatello, Associate Director of Development  
Ph: 613-533-6000 ext. 75804  
Email: michelle.miatello@queensu.ca

Heather McMartin, Sr. Development Officer (Toronto)  
Ph: 416-525-3923  
Email: heather.mcmartin@queensu.ca

Beth Wylie, Development Officer  
Ph: 613-533-6000 ext. 74594  
Email: beth.wylie@queensu.ca

Donna Dwyre, Senior Development Officer  
Ph: 613-533-6000 ext. 78212  
Email: donna.dwyre@queensu.ca

Patricia Smith, Senior Development Officer  
Ph: 613-533-6000 ext 79531  
Email: pat.smith@queensu.ca

Joanne Grills, Faculty Advancement Coordinator  
Ph: 613-533-6000 ext. 75248Toll Free 800-267-7837  
Email: grillsj@queensu.ca

Maura Doyle, Development Coordinator  
Ph: 613-533-6000 ext. 79533  
Email: maura.doyle@queensu.ca

Donate to Civil Engineering Trust Fund

Add to my gift basket

$1,000  $500  $250

At the discretion of the Head of Civil Engineering, gifts are used to support the greatest departmental needs, such as student teams and activities, teaching and equipment purchases/maintenance.

www.civil.queensu.ca
CONGRATULATIONS

to all of our Graduate Students who received their degrees at the Spring and Fall Convocation 2012

Payam Aghsaee (PhD) June ’12
Supervisors: L. Boegman
Currently working as an Adjunct teaching for Civil Engineering, Queen’s University

Andrew Binns (PhD) June ’12
Supervisors: A.M.F. da Silva
Currently working as an Assistant Professor in Department of Civil & Environmental Engineering, University of Western Ontario

Ramin Rameshni (PhD) June ’12
Supervisor: C. MacDougall/M.F. Green
Currently Postdoctoral Fellow, Civil Engineering, Queen’s University

Yan Yu (PhD) June ’12
Supervisor: R.K. Rowe
Currently Postdoctoral Fellow, Civil Engineering, Queen’s University

Jonathan Foster (MASc) June ’12
Supervisor: W.A. Take
Currently working for BGC Engineering, Vancouver, BC

Agnita Mukherjee (MASc) June ’12
Supervisors: C. MacDougall
Currently working for SNC-Lavalin Nuclear, Oakville, Ontario

Teng Lin (MENG) June ’12
Advisor: C. MacDougall

Melissa J. Chappel (PhD) Nov ’12
Supervisor: R.K.Rowe, W.A.Take, R.W.I. Brachman
Currently working for CTT Group, St-Hyacinthe, Quebec

Scott K. Hansen (PhD) Nov ’12
Supervisor: B.H. Kueper
Currently doing a Post-Doctoral Fellowship at Weizmann Institute in Israel

Chenxi Li (PhD) Nov ’12
Supervisors: B.C. Anderson/P. Champagne
Currently working for China National Chemical Engineering Co. Ltd.

Ahmed B.M.A. Mabrouk (PhD) Nov ’12
Supervisor: R.K. Rowe
Currently working for Golder Associates, Calgary

David Rodriguez Alcocer (PhD) Nov ’12
Supervisors: B.H. Kueper/P. Champagne
Currently working at Arcadis Consultants, Syracuse, New York

José Aguilera (MASc) Nov ’12
Supervisor: A.Z. Fam
Currently working for IBI Group, Ottawa

Michael Dutton (MASc) Nov ’12
Supervisors: N. Hoult/W.A.Take
Currently working for Hatch Mott MacDonald, Mississauga

Kevin Hollingshead (MASc) Nov ’12
Supervisor: M.F. Green
Currently working for Hatch Mott MacDonald, Mississauga

Jillian Lackey (MASc) Nov’12
Supervisors: P.Champagne/B.A.Peppley
Currently working for AECOM, Markham

Geoffrey Lay (MASc) Nov’12
Supervisor: R.W.I. Brachman
Currently working for Golder Associates, Mississauga

Ashley Verge (MASC) Nov’12
Supervisor: R.K. Rowe

Jessica Worley (MASC) Nov’12
Supervisor: K.S. Novakowski
Currently working for BGC Engineering, Vancouver, BC

Please send comments and or news to:
Kent Novakowski, Department Head, kent@civil.queensu.ca
Lloyd Rhymers, Department Manager, rhymers@civil.queensu.ca

Department of Civil Engineering
Ellis Hall
58 University Avenue
Kingston, ON K7L 3N6

www.civil.queensu.ca