



Building Partnerships

LINKING CIVIL ENGINEERING FACULTY, STUDENTS, ALUMNI & INDUSTRY

Fall 2002

NUMBER ONE IN CANADA

Over the past three years with outstanding new hires and increased productivity and collaboration from everyone, the Department now ranks number one in Canada in NSERC (Individual Research Grants) funding per faculty member. This is a result of a lot of hard work by our departmental team of staff, graduate students and faculty.



HEADLINES

A year ago, I mentioned that the Civil Engineering Department was experiencing a great deal of change – the excitement and challenges continue. Over the past year Ken Rose, Ivan Campbell, Paul Gaskin, Joyce Row and Jim Roettger retired. They will all be missed as each of them contributed to the overall success of the department.

In response to these retirements the department has brought on board two new faculty, as Assistant Professors in the Structures and Materials area. Luke Bisby, one of our own research students who will join us January 1, 2003 upon completing his doctoral degree and Amir Fam from North Carolina State University who will start September 1, 2002. Amir who has been a very strong active researcher since completing his degree a few years ago, is being put forward as a TIER 2 Canada Research Chair candidate. In addition the department has two other open positions, in which candidates are being interviewed in the Hydraulic/Water Quality area where we are looking for a TIER 1 Canada Research Chair candidate and a junior faculty member. It is anticipated that these positions will be filled by July 1, 2003.

With all of this ongoing, there has been a complete change in our administrative organization; Lloyd Rhymer is the manager of all the technical and administrative staff, Darlene Gaffney is the Graduate Program Assistant, Cathy Wager is the Undergraduate Program Assistant and, recently hired Fiona Froats is our Financial Assistant.

More details on these and other activities and achievements are contained in the rest of the newsletter. Please don't hesitate to call me with any ideas you might have to further strengthen our department's competitive position. As we assemble an excellent team of staff and faculty.

Dee Tunde

A WONDERFUL DONATION FOR OUR JOB NETWORK AND INDUSTRY OPEN HOUSE

Thanks for the great gift! Jennifer Mitchell (Civil 02) and her parents Joan and Brian are providing over the next two years an annual donation of \$20,000 to support the Job Network and Industry Open House Activities. This gift will allow the department to continue to seek the best career opportunities for our students and to build stronger links with industry. Special efforts will be made, at the request of the donors, to develop more partnerships in Alberta and British Columbia as B.C. is the home of the Mitchells. Your support is most appreciated.

TEAM BUILDING COMPETITION

QUEEN'S CONCRETE TOBOGGAN TEAM

The Great Northern Concrete Toboggan Race took place in February at the University of Manitoba in Winnipeg, Manitoba. This year's team of 28 students was one of many schools from across Canada and the United States to participate in the civil engineering design team event. As toboggans must hold 5 passengers and consist of a roll cage, braking mechanism and a concrete running surface, the Queen's design involved an aluminum superstructure mounted on a concrete slab. This year's team improved upon past years performances with a 4th place finish and an award for best brakes. Despite an

early crash on the curved race course, which resulted in the loss of the tip of the concrete slab, the Queen's team used their engineering ingenuity and fixed the toboggan with a crazy carpet and still managed the 6th fastest speed. The competition was a success, and the team looks forward to improving upon their performance next year at the University of Alberta in Edmonton. The team would like to thank all of the sponsors for their continued support:



Team members: Susan Trickey, Iris Lui, Nik Schruder, John Cholewa, Sandra Smith, Sarah Howard, Micheal Ranger, Kelly Murray, Sarah Roberts, Kim Read, Suzanne Charbonneaux, Sarah Foster, Jana Levison, Jen Levoie, Robert Hsu, Steve Vardy, Chris Bent, Troy Virtue, Micah Melnyk, Siebren DeJong, Patrick Nolan, Andrew Bandler, Andrew Hoskins, Megan Londry, Mark McCain, Trina Sager, David Sajecki, Natalie Trought, David Scott

- **Gold Sponsors:** Faculty of Applied Science, Queen's Engineering Society, Dufferin Aggregates, O'Connor Associates Environmental Inc.
- **Red Sponsors:** Department of Civil Engineering, M.Sullivan and Sons Limited, R.W. Howard Engineering Inc., Halsall Associates Ltd., Cruickshank Construction, Lafarge Canada Inc., E.K. Purdy, ANCHOR Concrete Products Ltd. McCay, Duff and Company Chartered Accountants
- **Blue Sponsors:** KMB Aviation Consulting Group Inc., Frank the Mover, ACME Designs

QUEEN'S CONCRETE CANOE TEAM

This May a group of 21 Queen's Civil Engineering students participated in the Canadian National Concrete Canoe Competition. The race, hosted by the University of Toronto, saw 9 universities from across Canada and from overseas compete. The Queen's team fared well, with a 4th place finish and a gold medal in the women's 100m sprint, despite cold and rainy weather. The team was quite happy with their solid performance in the racing portion of the competition, ranking in the top 3 for women's sprint and slalom, men's slalom and mixed sprint thanks to their many weeks of practice with paddling coach Jim Raffan. The team is already planning for next

year's competition in Montreal and would like to thank all of their sponsors for their support.



□ **Gold Sponsors:**

Faculty of Applied Science,
Queen's Engineering Society,
Queen's Alma Mater Society

□ **Red Sponsors:**

Department of Civil
Engineering, United-Lock Block
Ltd.

□ **Blue Sponsors:**

O'Connor Associates
Environmental, Peter Kiewit
Sons Co. Ltd., DBA Engineering,
Shoppers Drug Mart Ontario,
Just New Releases, Professional
Engineers of Ontario



Team members: John Cholwea, Britton Cole, Arley Drew, Alyson Ecker, Sarah Foster, Sarah Howard, Robert Hsu, Jen Lavoie, Jana Levison, Iris Lui, Micah Melnyk, Brant Oldershaw, Michael Ranger, Nik Schruder, Aaron Smith, Lauren Spudowski, Susan Trickey, Stephen Vardy, Sean Watt

BRIDGE BUILDING COMPETITION

The annual bridge building competition took place this past March at Concordia University in Montreal, Quebec. As always, Queen's provided a large number of enthusiastic and spirited teams. The competition required teams to design a bridge out of Popsicle sticks, glue, and dental floss that was not only strong but also lightweight. Marks were also awarded for originality and aesthetics. The top team from Queen's, a group of seasoned veterans finished tenth out of 37 teams entered in the competition. The members of this team were: Liz Ahlgren, Alex Mung, Derek Powers, Sean Bagshaw, Jay MacNeil, Scott Hansen. The weekend event provided an excellent opportunity for the students from second year to fourth year to get to know one-another in a social atmosphere while they learned valuable teamwork, leadership, and design skills. Many of the students are already looking forward to next year's competition where they are hoping to have the best turnout and results ever. The following is a list of the other Queen's teams that participated.

Dave McColl
Susan Trickey
Betsy Varghese
Ryan North
Amber Palmer
Steve Vardy
Ted Bailey
Emily McNamee
Ryan Munden
John Cholewa
Sam Rogers
Colleen Burke

Andrew McGillis
Matt Reid
Pete Merry
Yazan Qasrawi
Carrie McFarlane
Iris Lui
Dan Babcock
Ian Munroe
Eva Cheung
Micah Melnyk
Matt Kennedy
Kate Gilpin



For more information about this year's concrete toboggan team or to become a sponsor contact **Sarah Howard** at 9slh7@qlink.queensu.ca.

HONOURS AND ACHIEVEMENTS

THE ROBERT J. MITCHELL PRIZE



A great new \$5,000 prize, “The Robert J. Mitchell Prize” was established, through an anonymous gift to the Department this year, to honour Dr. Robert J. Mitchell’s work in the Department. Dr. Mitchell demonstrated great skill in attracting graduate students with natural leadership abilities who involved themselves in university life beyond their academic studies. Following Dr. Mitchell’s example, many of these students went on, after graduation,

to become successful leaders and citizens in the global society. This prize is intended to recognize graduate students who best combine leadership ability and a demonstrated inclination to participate actively in the broader learning environment. The first recipient of this award, Luke Bisby, is truly an outstanding individual and meets all the requirements of this prize. Luke, while maintaining a first-class academic standing, was involved with many departmental activities, such as, being coordinator of the Department’s highly successful Engineering Forum, a weekly speaker series of invited guests from generally outside of Queen’s. For three years he was a representative on the Civil Grad Club, he was also involved with; the Departmental Staff Planning Committee, Queen’s Graduate concrete toboggan team, he helped supervise the undergraduate concrete toboggan and canoe team and has been involved with the department’s Industry Open House and Orientation Night activities. In the greater Queen’s community he was appointed as the Society of Graduate and Professional Students representative on the Instructional Development Centre’s Advisory Council, he was a departmental representative on the Green Building Task Group for the Integrated Learning Centre project, he also developed a team project for a first year course and volunteered on behalf of the department during the grade 6 bridge unit at Sir Winston Churchill Public School.

Beyond Queen’s he founded the Intelligent Sensing for Innovative Structures (ISIS Canada) Student Committee to deal with student issues and concerns and act as a liaison and advocate for all students within ISIS. He was the recipient of a \$5000 ISIS Scholarship for his involvement in developing a toolkit for ISIS technologies to be used in undergraduate curricula across Canada. Most recently, he was a member of a team of students from Queen’s that won a competition to design an Advanced Composite Materials pedestrian bridge at the University of Sherbrooke. WOW! what a truly deserving individual.

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THE HALSALL INDUSTRY PARTNERSHIP GRADUATE AWARD

The winners of the first two Halsall Industry Partnership Graduate Awards are Aaron Dent and John Ford. These \$5,000 awards were recently established by Halsall Associates and awarded to graduate students in Civil Engineering who are engaged in research supported by ISIS Canada (Network of Centres of Excellence on Intelligent Sensing for Innovative Structures).

Aaron and John will have the opportunity to spend three months at Halsall Associates pursuing their research and related professional development. Both Aaron and John are M.Sc. students studying the strengthening of concrete beams with fibre reinforced polymer (FRP) sheets under the supervision of Dr. Mark Green.

KILLAM RESEARCH FELLOWSHIP TO SUPPORT RESEARCH ON TRENCHLESS TECHNOLOGIES



Dr. Ian Moore, Canada Research Chair in Infrastructure Engineering (Department of Civil Engineering), has recently been awarded a Killam Research Fellowship by the Canada Council of the Arts. Killam Research Fellowships enable Canada’s best scientists and scholars to devote two years to full-time research and writing, and are recognized as one of Canada’s premier research awards. Ian’s Fellowship,

to study the “Engineering Mechanics of Buried Pipes, During and After Repair, Replacement or Installation Using Trenchless Technologies”, builds on his past work to develop limit states design procedures for public and private utilities who need to invest billions of dollars over the next 30 years to replace our cities’ hidden but aging sewer, water, and gas pipelines. It provides him with a unique opportunity to make major advances to understand pipe performance following trenchless construction and to ensure efficient and reliable designs.

Mark Green

Mark Green has been promoted to Full Professor after being in the department for only 8 years. During this time Mark has made many significant high quality contributions to the Department, the Faculty, University and both the professional and general community. These contributions have fallen into the general areas of teaching, research and service. Congratulations Mark

STUDENT AWARDS

UNDERGRADUATE

Josh Weibe

Kristen Splinter

- The Frank J. Dewitt Scholarship

Alison Michelle Street

- Edward Hugh McLellan Scholarship in Coastal Geotechniques, O'Conner Associates Award in Geotechnical Engineering, McMil Award in Environmental Engineering, and University Medal-Civil Engineering,

Ryan Peter North

- H.M. Edwards Memorial Award in Transportation Engineering

Bram Edward Westfall

- S.D. Lash Award

Aaron James Schweder Dent

Alison Michelle Street

- C.W. Marshall Memorial Award

Philippe Sylvain Bernier

- Science '71 Norman Fritz Memorial Award

Jennifer Joan Mitchell

- Peter R. White Memorial Award

Fall 2001 **Brea Williams**

Winter 2002 **Jia Shin**

- TA Awards

Male: **Ryan North**

Female: **Karen Legault**

- Athletic Awards

Carrie MacFarlane

- Civil '85 Award

Sarah Howard

- Issac Cohen Scholarship

Douglas Wright

- Alice Pierce Waddington Scholarship

2nd year: **Sarah Howard**

3rd year: **Sarah Roberts**

- W.W. Near Scholarship

Sarah Roberts

- Flour Daniel Canada Inc., Martin Wolff, and Edward Hugh McLellan Scholarship in Soil Mechanics

Steve Vardy

- Fifth Field

Laura Archer

- Howard Vance Memorial Book Prize

Micah Melnyk

- Professional Engineers Scholarship and Frederick and Christopher Ansley Award

Jesse Fleming

- Mike Hamze Memorial Scholarship

Tara Van Wheelden

Steve Vardy

Scott Bertoli

Megan Londry

Grace Yungwirth

- 2002-2003 NSERC Undergraduate Student Research Awards

GRADUATE

Luke Bisby

- Ontario Graduate Scholarship for Science and Technology (2002-2003)
- First ISIS Canada Student Design Competition – 1st Prize
- ISIS Canada Poster Competition 2002, Best of Group
- ISIS Canada Poster Competition 2002, Best of Conference
- Robert J. Mitchell Prize

Aaron Dent

- ISIS Canada Post Graduate Studies Scholarship
- CSCE Student Competition – 1st Prize

Raafat El-Hacha

- First ISIS Canada Student Design Competition – 1st Prize

John Ford

- First ISIS Canada Student Design Competition – 1st Prize
- TA Award – Winter 2002

Dorian Tung

- ISIS Canada Poster Competition 2002, Most Creative Poster in the group
- First ISIS Canada Student Design Competition – 1st Prize

Brea Williams

- ISIS Canada Poster Competition 2002, Best of Group
- ISIS Canada Poster Competition 2002, Best of Conference
- First ISIS Canada Student Design Competition – 1st Prize
- P.E.O. Scholar Award for the 2002-2003
- TA Award – Fall 2001

Dr. Kerry Rowe has been selected to give the Giroud Lecture at the 7th International Conference on Geosynthetics, in Nice, September 2002. This is the highest form of recognition of the International Geosynthetics Society which is awarded once every 4 years.

Congratulations to **Colin MacDougall** in his first year of teaching, for winning the "Civil Teaching Award".

Congratulations to the following for receiving Dean's Awards! **Stephen Vardy, Melissa Hamilton, Britton Cole, Scott Bertoli, William Dobson, Bronwen Smith, Sarah Howard, Sarah Foster, Jennifer Watson, Jana Levison, Robert Short, Jason Fitzwilliam, Robert Hsu, Trevor Skutezky, Kimberly Read, Yazan Qasrawi, Nicholas Stoute**

INDUSTRY OPEN HOUSE

The date for next year's event has been set for 23 January 2003. Hope to see you here!

Our 5th annual Industry Open House was held on 24 January 2002, with 20 companies attending. The day's event started at 11:00 with registration and display set up. Dave Turcke, Head of the Civil Department welcomed everyone and gave a brief presentation outlining the Department Programs and initiatives. George Sweetman, Director, Integrated Learning Centre, updated everyone on the progress of the Integrated Learning Centre with construction to start in the summer 2002. Bradley Fox from Materials and Manufacturing Ontario (MMO) spoke about MMO and their Connections Program which provides financial support for our industry based team design projects in CIVL 467.

Following these presentations students had a chance to meet with repre-

sentatives of the companies, see their displays and find out more about each company and what they were looking for with regards to permanent or summer employment. This year the student team prepared posters showing the work that they had done on their projects in CIVL 467. This allowed all interested companies to see what our students can do.

After these activities and before heading home everyone went to the University Club to relax and have dinner, which was sponsored by MMO and greatly appreciated.

If you would like more information on the Industry Open House or on our Design Project course please contact Lloyd Rhymer, phone 613 533 2123, email: rhymer@civil.queensu.ca or Cathy Wagar phone: 613 533 6000 ext 74227 email: wagarc@civil.queensu.ca.



INDUSTRY BASED DESIGN COURSE

A special thanks to all our industry partners who have so generously given of their time to share their expertise and provide invaluable mentorship to our fourth year students undertaking their final year capstone design course – CIVL 467. The following partners were involved during the past academic year; City of Kingston, Loyalist Township, Gartner Lee Ltd., Malroz Engineering, Stantec Engineering, Cruickshank Construction Kingston, Glenarden Realities, Geocor Engineering Inc., Halsall Associates Ltd., Baird and Associates, Ministry of Transportation and Geo-Canada Ltd..

This course requires funding to cover travel and material costs so that visits to industry can be made, project information obtained and reports prepared. Materials Manufacturing Ontario through its Connections Program provided \$36000 to offset most of these costs but in addition some of the participating and future partners, Loyalist Township, Stantec and the Thompson Rosemount Group also donated gifts. Thanks for your support, the students and faculty really appreciate it.



2001 – 2002 INDUSTRY PARTNERS

Acres International Ltd.	Greater Napanee Water Supply
Advanced Construction Techniques	Halsall Associates Ltd.
Aluma Systems	Inspec-Sol Inc.
AME (division of ARMBRO)	J.L. Richards
AMEC	Kimley-Horn Associates
Anchor Concrete Products Ltd.	Klohn-Crippen Mining Group
Aquafor Beech	KMB Aviation Consulting Group
Archibald Peterson Ltd.	Knight Piesold Ltd.
ARMTEC	Lafarge Canada Inc.
Azurix Engineering Corp.	Lafarge Pressure Pipe
Baird and Associates	Leo Alarie and Sons Ltd.
Bombardier	M and G Steel
Cataraqui Region Conservation Authority	M. Sullivan and Son Ltd.
Chant Construction	Maccaferri Canada Ltd.
Charles Howard and Associates	Malroz Engineering
City of Kingston	Marshall Macklin Monaghan
City of London	McCay, Duff and Company
Cosburn Patterson Mather	Ministry of Transportation Ontario
County of Lennox and Addington	NRC
Cruickshank Construction Ltd.	NSERC
Department of Civil Engineering (Queen's)	O'Brien and Gere Engineers Inc.
Daniel B. Stephens and Assoc.	O'Connor Associates
DBA Engineering Ltd.	Ontario Hydro
DBD Structures	Ontario Streams
Deep Foundations Contractors Inc.	Peter Kiewit Sons' Inc.
Dufferin Aggregates	Queen's Applied Science
Dufferin Construction	Queen's Science Quest
Dufferin Custom Concrete Group	RMC
Earthfx Inc.	Scott Wilson (Hong Kong) Ltd.
Environment Canada (Great Lakes)	Sernas Group
Gartner Lee Ltd.	SNC-Lavalin
G. Douglas Vallee Ltd.	Stantec
GeoCor Engineering Inc.	Thompson Rosemount Group
Geomatrix	Toronto Works
GeoSyntec Consultants	Totten Sims Hubicki
Golder Associates	Transenco
	XCG Consultants

NEWS AND NOTES

Dr. Bernie Kueper and his former Ph.D. student, **Dr. Dave Reynolds**, taught a week-long course in Sydney, Australia July 1-5 2002 dealing with the issue of groundwater contamination by non-aqueous phase liquids. This was the first ever offering of such a course to the Australian consulting, regulatory, and private sectors. Dave and his wife Lisa are enjoying their recent move to Perth where Dave has accepted a faculty position at the University of Western Australia.

THE SEARCH FOR SAFE DRINKING WATER

The Queen's-based Centre for Water and the Environment (CWE) is involved in a \$2.5-million project to research and develop an automated water testing system that will detect bacterial contamination within a few hours and immediately alert municipal water managers. "Such a test has the potential to be a significant improvement in drinking water monitoring, ultimately saving lives and reducing health-care cost," says CWE director Moe Hussain.

Precam Incorporated will provide \$1-million toward the research and development of the high-tech bacterial test, with additional expertise and in-kind funding of \$1.5 million from industry partners, including The Thompson Rosemount Group Inc., Hall Coastal Canada Ltd., Qubit Systems Inc., and I-M Innovations Inc.

The CWE is committed, through partnerships, to developing innovative technology for sustaining the quality and availability of fresh water, nationally and globally. The Centre brings together a multidisciplinary team of researchers from engineering and science, public health, government policy, and ecosystem management to find practical solutions to the complex issues arising from our dependence on fresh water.

HELPING OTHERS AROUND THE WORLD

As I moved into my office to begin my Master's in Civil Engineering at Ellis Hall, I asked what was to be done with the old computer that had been sitting on my new office desk. Upon learning that computers at Queen's that were no longer needed were being thrown out, I thought there had to be a better use for them. Thus began ACLI (African Computer Literacy Initiative). My soon to be registered charitable organization sends used computers to African universities so that students there can have the same opportunities that we have all benefited from. For those interested in contributing to African development, please contact me, Kumbo Mwanang'onze, at kumbo@civil.queensu.ca.

QUEEN'S ALUMNUS ASSUMES KEY ROLE IN THE WORLD TRADE CENTRE INVESTIGATION

In the aftermath of the terrorist incidents of September 11, leading civil engineers were called upon to evaluate buildings at Ground Zero. Queen's graduate Venkatesh Kodur, an engineer from the National Research Council Canada (NRC) and the only team member from outside of the USA, was invited to join the Building Performance Study Team (BPAT). The BPAT represents a coalition of leading engineers led by the American Society of Civil Engineers (ASCE) and the Federal Emergency Management Agency (FEMA).



Dr. Venkatesh Kodur participates in biggest-ever building investigation

"Dr. Kodur's expertise in fire resistance and on the effects of fire on building materials is recognized worldwide," said Dr. Carty, NRC President. "His knowledge and experience in the field have without doubt been an asset not only to NRC in its ongoing work to developing better, safer building techniques and codes for Canadians, but also to the investigation of the factors that led to the collapse of the World Trade Center."

Venkatesh Kodur obtained his M.Sc. and Ph.D. degrees from Queen's Civil Engineering Department between 1986 and 1992 under the supervision of Ivan Campbell. Those of you who remember him from his time at Queen's may remember him simply as "Kumar." He is currently still very active in the Civil Department because he is collaborating with Mark Green on a \$1 million project to study the fire resistance of concrete structures reinforced and strengthened with fibre reinforced polymers (FRPs).

NEW GEOENGINEERING GRADUATE PROGRAM

A partnership between four departments at Queen's University and RMC has developed an innovative new Collaborative Graduate Program in the field of GeoEngineering. Formally approved by the Ontario Council of Graduate Studies to commence in June 2002, the program links 15 different GeoEngineering faculty members in the Departments of Civil, Mining and Geological Engineering at Queen's and Civil Engineering at RMC. The graduate program offers doctoral and masters students the opportunity to obtain broad interdisciplinary graduate education and research training in a range of GeoEngineering subfields: Hydrogeology, Geotechnical Engineering, Geoenvironmental Engineering, Geomechanics, Geosynthetics and Geochemistry. Students enrolled in graduate programs offered by the participating departments can elect to participate in the GeoEngineering collaboration, select their courses from the more than 20 GeoEngineering graduate

courses offered in the four departments, participate in a GeoEngineering seminar course, and have their final transcripts amended to recognize this specialization in GeoEngineering. The program is the first of its kind in North America, and links some of Canada's leading GeoEngineering researchers enjoying high levels of government and private research funding. Full details of the participating faculty members, opportunities related to specific research projects, the list of graduate courses, and application procedures can be found at www.geoeng.ca.

DON'T FORGET HOMECOMING WEEKEND!

Civil Engineering will host its annual Homecoming Open House on **Saturday, 28 September 2002, from 10 am until noon, second floor, Ellis Hall.**

Faculty and students will be here to welcome alumni and friends.

Come and enjoy some refreshments and renew old acquaintances!

We are looking forward to seeing everyone again.

WHERE ARE OUR GRAD STUDENTS' GOING?



Jason Gerhard (Queen's B.Sc (Eng) 93, Queen's BA 93, Queen's M.Sc.(Eng.)95, Queen's Ph.D. 02) has accepted the post of lecturer (i.e., assistant professor) in the Department of Civil and Environmental Engineering at the University of Edinburgh. Jason, his wife Penni-Sue, and 1 year old daughter Serenna are excited about moving to the beautiful capital of Scotland at the end of August, 2002.

Jason will be teaching environmental engineering courses to some of the 250 undergraduate students. As well, Jason joins a research group investigating contaminated land assessment and subsurface remediation.

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It is also a pleasure to announce that, in addition, Gavin Grant (Queen's B.Sc.(Eng.) 98, Queen's M.Sc.(Eng.) 00) will begin his Ph.D. at Edinburgh in October 2002 under Jason's supervision. Continued collaboration and exchange between U. of E. and Queen's is anticipated. Jason can be contacted at jgerhard@eng.ed.ac.uk.

THE CIVIL ENGINEERING FORUM

Robert and Joyce Jones Speaker Series

The Civil Engineering Forum is an initiative in the Department of Civil Engineering coordinated by our Graduate Students. It provides a weekly presentation and discussion series aimed at increasing awareness and debate of both research initiatives and practical applications in engineering.

This past year the speakers were: Farrel McGovern, Jennifer Haverhals, George Roter, Richard Brachman, Peter Halsall, Alex Mung, Betsy Varghese, Philippe Bernier, Susan L. Tighe, Mr. Len Goveas, Kianoosh Hatami, Colin MacDougall, Ana da Silva, Karyn CornField, Sarah Rosolen, Berend Velderman, A.G. Davenport, Dan LaLande, Steven J. Strong, George Sweetman, Paul Hurst, Jeff MacNabb, Anna Markiw, Dr. Ian Moore and Matthew McKernen.

The Civil Engineering Forum would like to extend an invitation to potential speakers interested in presenting at the Robert and Joyce Jones Speaker Series. For more information about the forum, or if you are interested in presenting, please contact Scott Shillinglaw or John Ford by phone at (613)533-6000 ext. 75259 or by email at scott@civil.queensu.ca.

Katie Nelson, B.Sc. '88, is now a Principal in the Toronto office of Mercer Management Consulting, one of the world's premier corporate strategy firms. Congratulations Katie!

MOVING IN AND MOVING ON

The Department of Civil Engineering is in the midst of large-scale faculty renewal, and is focusing on three areas of research strength: GeoEngineering, Structural Engineering and Materials, and Water and the Environment. The goal is to ensure that each of the research areas in the Department achieves international prominence. The department is fortunate to have attracted the following two excellent faculty members to its team of faculty.

Mr. Luke Bisby (Structural Engineering and Materials)

Luke's academic and research performance as a graduate student at Queen's has been outstanding. His research interests include reinforced concrete and fire resistance considerations associated with the use of advanced composite materials in Structural Engineering applications. His research is extremely challenging and he is working closely with the Institute for Research in Construction (IRC) at the National Research Council of Canada. He has been extremely active with, and won prizes and scholarships from the Canadian Networks of Centers of Excellence for Intelligent Sensing for Innovative Structures (ISIS). Luke will be joining us January 1, 2003 when he will completed have his Ph.D.

Dr. Amir Fam (Structural Engineering and Materials)

Amir will bring to the Department from North Carolina State University an excellent complement of research knowledge and professional skills that fit the research plans of the department. His research activities over the past eight years have been focused on the structural applications of advanced composite materials and their use as reinforcement for reinforced and prestressed concrete members as well as for the repair of metallic structures. At this early stage in his career he will provide guidance to the Structures and Materials group through his recent experience with industry related research and development at North Carolina State University. Amir will be joining us September 1, 2002.

The addition of Luke and Amir will greatly strengthen the programs within the department and its competitive position for attracting future faculty, undergraduate and graduate students, industry partners and research and development funding.

NINE RETIREES HONOURED

The Department honoured five of nine recent retirees at a dinner reception held on March 16, 2002 at Mino's Village Banquet Hall, Kingston. The five retirees who were able to attend are pictured from left to right: **Paul Gaskin, Ivan Campbell, Karl Van Dalen, Bob Mitchell, and Ken Rose**. The honoured guests were piped-in by the Department's newest member of faculty, Colin MacDougall and Bruce Anderson (Associate Head) presided as master of ceremonies. After some fine dining, each retiree was paid tribute from a colleague and given a gift from the Department and friends. Unable to attend were: **Bill Kamphuis, Jim Roettger, Joyce Row and Ed Watt**.



Mr. Graeme Skinner

Mr. Graeme Skinner, who is currently completing his Ph.D. here under Kerry Rowe's supervision, will be appointed as an Assistant Professor for the next two years in the department. Graeme, who will be teaching two undergraduate courses and one graduate course is one of our top graduate students and has already won awards for his teaching both here at Queen's and at Western. This opportunity for Graeme was made available through support from the the Kilam Research Fellowship received by Ian Moore.

RETIREES

Ivan Campbell retired from the Department of Civil Engineering on June 30, 2002 after 30 years. During his time at Queen's, Ivan served as Head of Department from 1990-95, was Coordinator of Graduate Studies for a number of years, and was the winner of the Departmental Teaching Award in 1998-99. It is important to mention that over the past six years Ivan has been the top instructor in the department. During the next few years he plans to continue both research in the Department, and his collaboration with Bombardier Transportation. During this time Ivan will also provide excellent mentorship for three new young faculty in the structures and materials area. In addition, he will be involved with development of design guidelines for Fibre Reinforced Polymer (FRP) prestressed structures for ACI and ISIS Canada, and with revision of the Canadian Highway Bridge Design Code. Also he hopes to work on lowering his golf handicap. The department will miss your strong and steady support that you have provided over the past years.



Jim Roettger started with Queen's in the summer of 1980 after retiring from the military, and completing his Civil Technician Certificate at Loyalist College in Belleville. Initially he worked for Dr. R.J. Mitchell as a research assistant in geoen지니어ing research. Jim later became a member of the department staff in 1990 and used his many talents in developing and fabricating unique apparatus for all areas of civil as well as keeping the many testing machines maintained and repaired. He was very popular with the students providing them with valuable practical training for use on their projects. Jim retired on January 31, 2002 and will be missed by faculty, students and staff alike.



After 20 years of service **Joyce Row** recently retired from the Department. During the majority of these years Joyce worked very hard to serve the interests of the Graduate and Undergraduate programs. She had a great capacity to deal efficiently and effectively with many different activities and enjoyed a very friendly and caring relationship with all our students. Thanks for all your contribution to the department and we all wish you well in your retirement.



GOOD BYES FROM KEN ROSE

Well the time has come – as the Walrus said. After 30 some years and over 1600 graduating students it is time to put down the chalk and get on with some quality grand parenting.

Some people say that this is the best job in the world and in many ways I agree. Admittedly being the CEO of a firm that has a good share option plan is also attractive. What more to say – I wish you all well in your chosen career paths and good luck in the future. It has been a pleasure knowing you.

