

The Civilian

One Department, Two Great Programs: Civil and Mineral Engineering / Issue 14 / December 2012

Advancing Transportation

Dr. Mazen Hassounah and Prof. Gerald Steuart Announce New Scholarships

International Reach

Alix Faye-Chellali on her life-changing exchange year in Toronto



welcome

Along the hallway outside the Office of the Chair, GB107, is what I affectionately call the Wall of Rogues.

It holds the portraits of all past Chairs, a wonderful idea that was initiated by Professor Gary Heinke around 1980. A picture was added at the end of each Chair's term. Being the first female Chair, our Dean suggested that I put my picture up at the start of the term to show the present as well as the past.

I had my picture taken, framed, and added to the wall. We quickly noticed that I was the only one on the wall smiling, and it took but a moment to realize why – the others had their pictures taken at the end of their term! While they were on their way out, I was still fresh and naïve. Other benefits that I'm just acknowledging now include less gray hair and fewer wrinkles recorded for posterity!

Amazingly, the end of my mandate as Chair is fast approaching. I have been asked to extend my term by 6 months to the end of June 2013. This will give me the opportunity to attend, as Chair, one more CIV/GEO/MIN Alumni dinner, one more CIV/MIN Career Fair, one more CIV/MIN Top Applicant Dinner, and one more convocation.

As you can imagine, it was not a difficult decision to make.

Undoubtedly, one of the greatest privileges of being Chair is to meet you - our alumni and friends! Your enthusiasm for your alma mater is inspiring and I thank you for your ongoing generosity. Your donations have supported many initiatives that would otherwise not have been possible! These include:

- The transformation of an overcrowded storage space into a new teaching lab! This multi-purpose facility is flexible, allowing a variety of activities to be held, including materials, structures, and geomechanics labs.
- The upgrade of existing testing equipment in the teaching labs and the purchase of new units so that the students in our growing programs can continue to have the meaningful, hands-on learning experience that others have enjoyed.
- The creation of new scholarships that acknowledge outstanding performance and that help students in financial need. Your support of both undergraduate and graduate students is at the heart of our ability to attract the very best students!

Thank you.

In the next *Civilian* issue, you will have the pleasure of meeting the 17th Chair of the Department of Civil Engineering. Until then, stay in touch.



Brenda McCabe
PhD, PEng

Associate Professor & Chair
Department of Civil Engineering



Cover: Alix Faye-Chellali spent last year on exchange with us in Toronto. She reflects on her experience on page 12.





Letters

History of Gratitude

I read with interest the article on “Gratitude.” The students who got involved deserve a lot of credit.

I was the one who came up with the idea back in 1983. I talked the other kids into it and eventually the whole U of T got involved.

Malcolm McGrath
CIV5T6

Malcolm is quite right. He is widely recognized around the University for single-handedly organizing the first campaign.

Graduate giving campaigns were operating quite successfully in the United States and at some Canadian private schools at the time.

In the first year, the primary challenge was building momentum and awareness: not only did the Dean need to be convinced that it was a worthwhile endeavour, the students needed the same thing.

The campaign was a rousing success, raising pledges of \$10,000 for undergraduate equipment.

Over the years, it is estimated that nearly \$1 million has been raised institution-wide.

Greetings from Mexico

All of us from the Universidad Autónoma de Nuevo León (UANL) delegation received a warm reception when we visited your University, and we feel very grateful for your hospitality.

I write this letter only to thank you and greet you, hoping that you are doing very well.

I want to share with you a few photos of our visit, just to remember the wonderful time we had that day.

Luis Campos
Visiting Student

The UANL delegation came to visit us earlier this fall as part of the American

Concrete Institute (ACI) annual convention, which was held this year in Toronto.

We were thrilled to be able to host the students on campus and offer them a tour of some of the work going on in our concrete materials and structures labs.

Above is a photo of the delegation in front of Convocation Hall.

Remembering Arthur Bartley Johns

Art, my late husband, was the first in his family to attend University. He graduated in 1960 from U of T with honours in Civil Engineering.

We were married in May, the day after he wrote his last exam. Good planning!

In August we set out for the University of Illinois, where Art was hired as a research assistant and completed his master's degree in pre-stressed concrete.

welcome

His pay was about \$100 per month, most of which went to pay our rent in the student-staff apartment.

We ate a lot of chicken - it was cheap!

After a year and a half, we returned to Toronto. We had one baby and another on the way.

Engineering jobs were not very plentiful, so Art did some contract work for two or three months. He was then hired by Morrison, Hershfield, Millman and Huggins, a consulting firm run by four of Art's former Professors at U of T.

Over the years, it became known as MH, or Morrison Hershfield.

He started at the bottom and worked his way to the top, eventually becoming CEO, President, and Chairman after spending 43 years with the same company.

Art was proud to be an engineer and worked on many committees. One of his favourites was Camp One Iron Ring and the ceremony attached.

He was a dedicated advocate for Engineers.

During his career Art received many awards. The last two were in 2002 and 2004, the Professional Engineers of Ontario Gold Medal and the Professional Engineers of Canada Gold Medal, respectively.

His firm wrote several words to describe him, "gentleman, leader, honest, ethical, trustworthy, kind, mentor, expert, dedicated, caring, and wise."

Last but not least, Art was a wonderful husband, a great father to our three children, and a loving grandfather to our five grandchildren.

This is why I became a donor.

With family, friends, colleagues, and Morrison Hershfield, we were able to set up a scholarship in his name.

What better way to remember him and also help a young student begin their journey as an engineer.

Ruth Johns

Arthur B. Johns Scholarship

The Arthur B. Johns Scholarship is given annually to a top student entering the Civil Engineering program at U of T.

This year's recipient is Aaron Weber (CIV1T6).

The Johns family was able to meet the recipient of their award at this year's Scholars and Donors Reception, pictured below.

Arthur B. Johns Scholarship Winner



This year's Scholars and Donors Reception was a chance for us to recognize the top notch students that we have here in the Department.

It was also our way of saying thank you to our wonderful scholarship donors, whose generosity has made it possible for us to offer much needed financial support to the best and brightest.

Over 50 undergraduate and graduate students at all levels were recipients of donated awards in the past year.

Photos taken at this year's event are available on our website.

Thanks to all who attended! 🏠

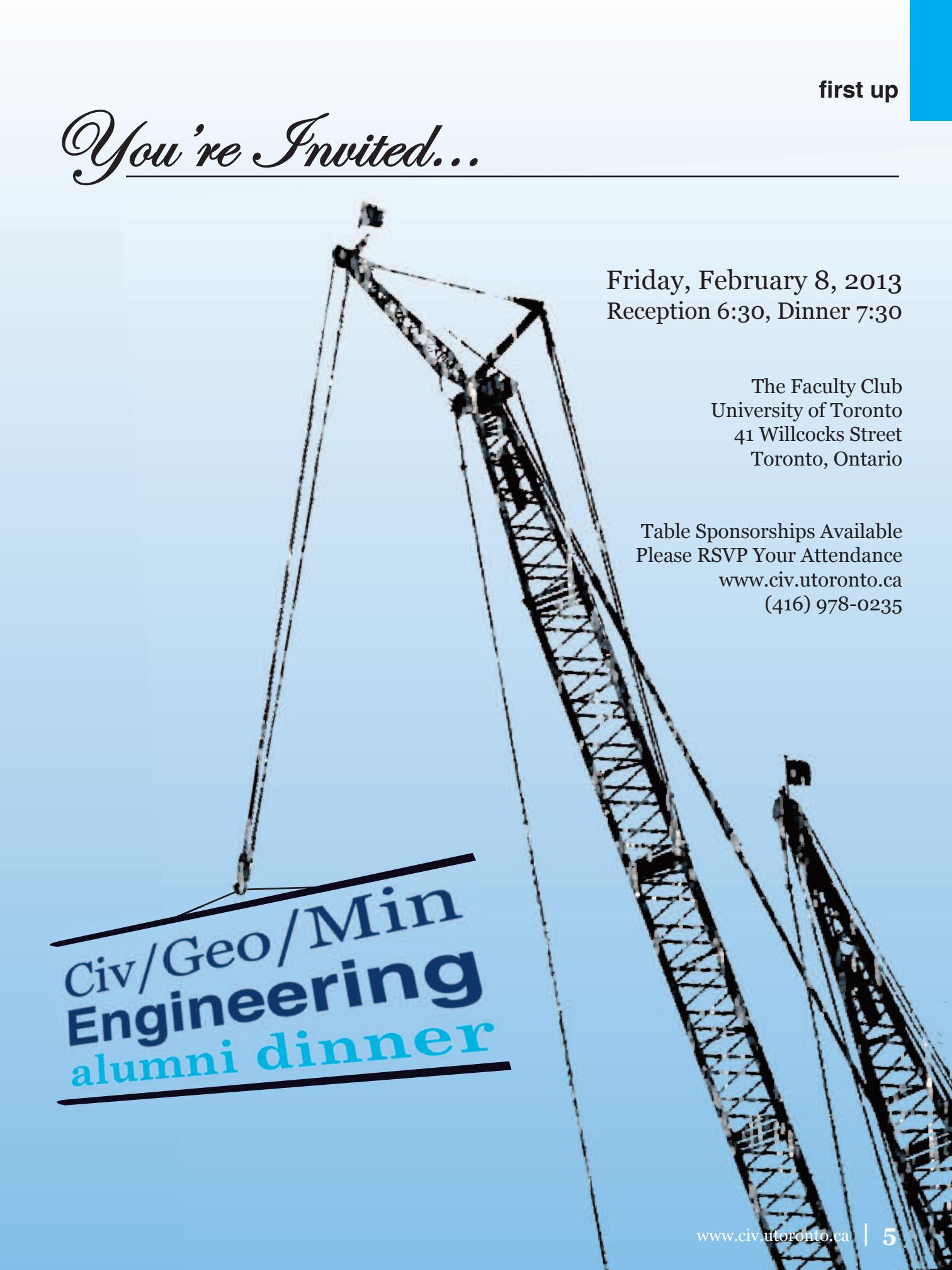
Left: Aaron Weber with the Johns family.

You're Invited...

Friday, February 8, 2013
Reception 6:30, Dinner 7:30

The Faculty Club
University of Toronto
41 Willcocks Street
Toronto, Ontario

Table Sponsorships Available
Please RSVP Your Attendance
www.civ.utoronto.ca
(416) 978-0235



**Civ/Geo/Min
Engineering
alumni dinner**

Endowed Gifts Advance Transportation Research



Donations from **Dr. Mazen Hassounah (PhD 1992)** and friends have created two new endowed graduate scholarships.

Dr. Mazen Hassounah returned to the University of Toronto ITS Centre and Testbed recently to launch two new scholarships.

The awards will help the broader Transportation Engineering and Planning Research Group attract and retain top graduate students from around the world, and will help advance the Centre's leading research agenda.

The first award, the Mazen Hassounah Graduate Scholarship in Mass Events Transportation and Crowd Management, will be awarded annually to students undertaking advanced research in Transportation Engineering, who have demonstrated academic excellence and a strong commitment to pursuing innovative solutions to the most pressing transportation problems facing urban centres worldwide.

Millions of dollars will be spent over the next decades to build infrastructure that will move people in safer, faster, and more convenient ways in the world's busiest cities.

During Makkah's Hajj and Umrah, for example, the normal city population swells to astronomical proportions - posing real challenges that engineers must deal with. Huge infrastructure projects are set to merge the latest advanced technology with culturally-sensitive planning in order to

deal with these issues.

The support of new research here at U of T into these solutions will ensure that we are at the leading edge of these next super-projects.

Professor Emeritus Gerald Steuart was also honoured with an award in his name.

The Professor Gerald Steuart Graduate Scholarship in Transportation Engineering will be awarded to graduate students enrolled in the Department of Civil Engineering who are undertaking advanced research in Transportation Engineering in areas such as airport operations and planning, urban transportation modelling and analysis, and data collection methods for estimating urban travel.

The winners of this award must demonstrate academic excellence and a strong commitment to pursuing innovative solutions to pressing transportation problems facing urban centers or airports in any region of the world.

The University has committed to match the initial award donations dollar for dollar, effectively doubling the initial award endowment. The award will, therefore, pay dividends in perpetuity to support our academic efforts.

The launch took place with remarks from Dean Cristina Amon, Prof. Gerald Steuart, Dr. Mazen Hassounah, as well as Prof. Brenda McCabe, Chair, several graduate students, and attendance from academic and industry representatives from across the industry.



Above: Prof. Gerald Steuart addresses the crowd at the inauguration of his award.

The inaugural winners of the award are Leila Dianat, Sivakrishna Srikukenthiran, and Landy Cheung.

Landy, who is just beginning her graduate research, will be analyzing transit service and operational design using AI methods.

She has begun her Master of Applied Science research under the supervision of Prof. Amer Shalaby.

Dr. Hassounah has distinguished himself since his graduation from the PhD program in Civil Engineering at the University of Toronto in 1992 with over 27 years of experience in professional engineering, planning, corporate advisory services, investment banking, and asset management services.

He is currently the Managing Partner at Mawakher Development Company.

Prior to this, he worked as the CEO and Managing Director at Rana Investment Company. ♣

Opposite: Scholarship celebrants gather around Dr. Mazen Hassounah and Prof. Gerald Steuart

Below: Dr. Mazen Hassounah speaks of the two new scholarships at the U of T ITS Centre and Testbed.



There's a New MEng in Town



A proposal for the new Master of Engineering in Cities Engineering and Management is currently before the Government of Ontario. If approved, it will help bring a whole new focus to urban issues.

Cities are the economic engines of the world. With over 50% of the world's population now living in cities, the health and wealth of nations depends strongly on how well cities function.

Global urbanization trends, climate change, limitations of natural resources, and sustainability concerns will cause urban centres around the world to encounter increasing challenges in managing their infrastructure and in delivering high levels of service to ensure the well-being of their citizens.

Professionals with both technical expertise and a fundamental understanding of the complex and cross-disciplinary issues facing cities are needed.

To proactively respond to this growing need, the Department of Civil Engineering is in the process of creating a new professional graduate program, the Master of Engineering in Cities Engineering and Management (MEngCEM).

The 16-month full-time M.Eng.C.E.M. program will continue

the trend towards broadening engineering education and cross traditional engineering disciplines to focus on the application domain of cities.

It will be structured around three themes. Theme A: infrastructure-related courses that focus on quantitative methods to provide a foundation for evidence-based decision making; Theme B: cities as complex systems that influence decision making; and Theme C: an integrative practicum that allows students to apply the technical knowledge they have learned to a complex problem related to cities.

The program will also be linked to the new Centre for Urban Science and Progress (CUSP) initiative. This multidisciplinary, international centre of research and learning is based in NYC, but has several academic partners, including U of T.

There may be potential for students to join one of the CUSP sites (New York, Toronto, Pittsburgh, Bombay, Warwick) and work as part of an interdisciplinary team to address a pressing issue brought forward to the consortium.

Alternatively, the project may be undertaken in partnership with an industry or government sponsor, in a research setting, or as part of an investigative study. Although topics will vary, students will be required to present their findings to an audience of their peers and submit a technical report.

Visit www.civil.engineering.utoronto.ca/programs/graduate/meng.htm for more information. 

Donna Vakalis' Olympic Journey

Olympian turned PhD student reflects on her hopes for the London Olympics and her future in engineering

By Shireen Cuthbert

It's an understatement to say that new Civil Engineering PhD student Donna Vakalis had a busy few weeks ahead of her before she joined the Faculty of Applied Science & Engineering.

Just days before starting the program, the Toronto native who received her Master's degree from U of T's John H. Daniels Faculty of Architecture in 2009, was bound for the airport to compete in the modern pentathlon at the London Olympic Games.

As one of just 36 people from around the world who qualified for the event, Vakalis had to be top of her game in shooting, riding, fencing, running and swimming on her way towards the gold medal.

She recently took some time out of her hectic training schedule to answer a few questions for U of T Engineering about her Olympic and professional goals.

How did you start your career as a pentathlete?

I started out as a competitive swimmer and horseback rider, then learned about pentathlon from a fellow member of the Pony Club. At age 15 I retired from pentathlon and all sports.

I made my way back to sports when I was doing my Master of Architecture at the University of Toronto. At the time, I found I was missing fencing and running and swimming. I felt the urge go workout to escape the studio. It built momentum to the point where I think I was probably training more hours than I was sleeping, which is only

about five hours a night for the typical architecture student!

I've come a long way since then. I've been trying out different arrangements with working and schooling and training to find the right balance. I've also been working for a flexible employer, Janet Rosenberg and Associates, which has allowed me to make money to pay for training.

Where were you when you found out you would be competing in the pentathlon at the London Games? How did you feel when you got the news?

I was in China and felt a strong mix of emotions - including being tired from competing that day. But I felt overwhelmingly joyful.

What was your Olympic training like?

We rotate between three and five training sessions per day between five disciplines. We also have supportive activities like weights and physiotherapy.

I can say that there is often one morning workout like swimming, followed by a break. During the break I would normally go to work, but leading up to the Olympics I took the time to concentrate purely on training.

Now my breaks are more likely to be used for weights or a nap! After the break we have another training session such as running or shooting. Another break follows, then we have an evening session like fencing for few hours. Mix and repeat.

What about athletics is most helpful to you as a PhD candidate at U of T Engineering?

Since I've visited so many cities in the last four years, I've observed the different ideas expressed in buildings and infrastructure from all over the world. Travel provides you with a wealth of innovative ways to design the extra small- to large-scale details of a city. I've also gotten the knack of fitting in 20-plus hours of output into 16 waking hours!

Continued on page 11...





... continued from page 9.

A few weeks after competing at the Olympics, you joined U of T Engineering's PhD program in Civil Engineering. How did you feel when you found out you were accepted into the program?

I got the two pieces of news within days of each other: the official acceptance into U of T Engineering and the official news of being on the Olympic team.

My excitement for each was multiplied exponentially. For that reason, I think the two experiences will always be intertwined in my mind.

I know it's kind of nerdy, but I get really giddy thinking about beginning my PhD. After finishing my Master's in 2009, I knew that I'd want to return to school so I've been looking forward to this for a few years now.

What will be the focus of your PhD work? Why did you choose that area of Engineering and what impact do you hope your research will make?

My focus will be on sustainability metrics for large-scale built projects with Professor Heather MacLean.

I understand "sustainability" to capture the health, ecological and economic consequences of our activities and I hope that I can first educate myself. I want to use what I learn as a platform to help direct the radical changes we need to make to improve the world we live in. If we understand the consequences of the decisions we make in engineering and architecture activities, we'll be better poised to make smarter decisions and imagine alternatives that haven't been tried yet. ♣

Donna Vakalis competed in her first Olympic Games in London and finished in the top-30 in the women's Modern Pentathlon event.

In 2012, Vakalis had a top-20 finish at the Union International de Pentathlon Moderne World Cup Final in May which helped clinch her spot for London. A month earlier, she won the 2012 Guatemala Open. She also had a top-12 finish at the Indoor International competition in Hungary.

For more information about Donna Vakalis and to make a contribution to her training fund, visit her website at thisisdonna.com, or follow her on Twitter at twitter.com/SportIsAllOver.

We have the perfect fit.

Meet over 500 Civil, Mineral, and Engineering Science Infrastructure students and find your next top recruit.

Civil + Mineral Engineering career fair

Thursday, January 10, 2013
10:00am - 2:00pm
Lobby, Medical Sciences Building
1 King's College Circle
Companies: See back cover to register.
Space is limited - register today!

A Year on Exchange



Alix Faye-Chellali spent a year with us, exploring Toronto and U of T's Civil Engineering undergraduate program. She writes to us from her home in France.

Going to study abroad has truly been a dream for the past few years. It allowed me first to gain new perspectives about the civil engineering field, second to improve my English, third to play soccer and finally to discover a new way of life.

It seemed to me that Toronto and particularly U of T would be the perfect place to meet my desires.

And indeed it was.

I realize that my experience at U of T represents a real plus for my future career. I had the opportunity to attend lectures taught by world renowned professors. In spite of their achievement and success, they were very helpful and really easy to talk to. They are also incredibly passionate about teaching and training future engineers.

At the same time, they held high standards and demanded only the best from the students. I enjoyed many interesting classes over the year.

UofT placed a lot of emphasis on teamwork. For many of my courses, I had to spend a substantial amount of time working with other students on projects.

U of T also provided impressive resources such as libraries and teaching assistants to help me achieve academic success. In my opinion, Engineering at U of T prepares students well for the real world.

One of the best experiences I had there was joining the Varsity Blues to play soccer. It was probably also the best decision I made during my whole stay.

The team spirit was just extraordinary. I met open minded and helpful people, I visited each part of Ontario and without a doubt the team contributed a lot to my good integration in the country.

Just like it was at school, playing for the Varsity Blues was very demanding. I loved the way everybody cheered for each other and it was great to feel a part of the team.

I had the opportunity to travel a lot during the year. I penetrated the Canadian nature, attending different trips to Algonquin Park, Huntsville, Quebec... That introduction made me want to come back to discover the rest of Canada.

I also had the opportunity to spend Christmas in New-York which was totally fairy-like and enjoy some of the Canadian cities like Montreal, Quebec City and of course Toronto.

This experience allowed me to meet extraordinary people, reinforce my engineering knowledge, and broaden my mind.

To be short, this experience made me grow up. 



Wear your Skule pride.
Donate. Get a pin.

GRADITUDE

Think back on all the great memories you've collected during your time at Skule. Clubs, awards and student spaces are just some of the things that wouldn't be possible without the support of alumni before you.

For more information about Gratitude, please visit: uoft.me/gratitude



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Eric Miller Honoured with Prestigious UBC Award

Professor Miller has won the inaugural University of British Columbia (UBC) Margolese National Design for Living Prize

By Liz Do & Colin Anderson

The UBC Faculty of Applied Science has chosen U of T Professor Eric Miller as the inaugural recipient of an inspiring new award.

The Margolese National Design for Living Prize recognizes a Canadian who has made outstanding contributions to the development and improvement of living environments for Canadians of all economic classes.

Professor Miller has dedicated the past 30 years of his career to researching interactions between humans, urban land use, transportation and the environment, and to educating the next generation of responsible transportation engineers.

His work in the modelling of vehicle emissions, pollutant dispersion, and their exposure to human populations has helped to develop a more comprehensive understanding of fundamental urban planning issues.

What's more, his Integrated Land Use, Transportation and Environment model (ILUTE), considered a world-leading contribution to the science of urban simulation, has influenced cities both internationally and in Canada.

"I have always been fascinated by how transportation helps to shape cities and thereby shapes our lives," said Professor Miller. "I am, of course, absolutely thrilled to have received the



Professor Eric Miller.

Photo by Liz Do.

Margolese Prize. In addition to the personal honour, I believe that it represents a recognition of the importance of 'city engineering and science' to the improvement of our urban design, decision-making and the quality of our lives."

"Professor Miller's lifelong commitment to urban engineering issues is truly remarkable and influential to the field."

"Both broadly and specifically, Dr. Miller has been an extraordinary force for the development and improvement of urban living environments in Canada, and he continues to vigorously expand that influence," says UBC Applied Science's Dean pro tem Eric Hall.

At U of T, Professor Miller served as the Director of the Cities Centre, where researchers focus on crucial urban living environmental issues.

Under his leadership, the Centre fostered partnerships between academics and government, involved the community, and worked to improve urban policies.

"Professor Eric Miller's lifelong commitment to urban engineering issues is truly remarkable and influential to the field," said Dean Cristina Amon. "On behalf of the Faculty, I would like to congratulate him on this richly-deserved honour."

The UBC Faculty of Applied Science will be inviting Professor Miller to present a public lecture in early 2013.

Alumni and friends in the UBC area are encouraged to attend. Please inquire with the University of British Columbia Faculty of Applied Science for details. 📍

Four CIV/GEO Alumni Recognized With Arbor Awards



Mauro de Franco, Arun Channan, Norman Hann & Alfred Sobanski recognized for outstanding volunteerism

By Colin Anderson

Three Civil and one Geological Engineering Alumni were recognized recently with University Arbor Awards.

The awards are handed out annually to members of the wider campus community who have shown outstanding commitment through volunteerism.

“On behalf of the Faculty, I would like to extend my deep gratitude to our alumni and friends who were honoured with Arbor Awards,” said Dean Cristina Amon. “The exceptional support they

The 2012 Faculty of Applied Science and Engineering Arbor Award Winners with Dean Cristina Amon.

Photo by Liz Do.

give to our students and to U of T Engineering is truly remarkable.”

Arun Channan (CIV8T0)

Channan has been a volunteer for the Department of Civil Engineering since his graduation in 1980. Along with being a class leader and fundraiser, he is an active supporter of the University of Toronto Engineering Competition, an annual student-run design event.

Mauro De Franco (CIV9T5)

De Franco has been a class leader since his graduation from Civil Engineering in 1995. He has also organized an annual alumni reunion each year since graduation, making the CIV9T5 alumni group one of the most active and cohesive in the Faculty.

Norman Hann (CIV7T7)

Hann has worked to promote the matching program at Hydro One as a means for alumni at the company to double the impact of their giving to the University. Hann has also volunteered as an industrial thesis advisor for undergraduate and graduate students. He has served on the College of Electors since 2009, and is also a member of the Centre for Maintenance Optimization and Reliability Engineering (C-MORE).

Alfred A. Sobanski (GEO6T0) and Rosemary Sobanski

Sobanski and wife Rosemary serve on the executive of the Associates of the University of Toronto Mississauga (UTM). Alfred has undertaken the writing of a new constitution for the Associates and never misses U of T Convocation. As ambassadors for UTM and U of T as a whole, the Sobanskis often help to organize Associate events and are always in attendance. ♠

CIV, GEO, and MIN All Represented at EAA Awards



Engineering Hall of Distinction Inductee

Dr. Norman Keevil (GEO5T9)

Seeing an opportunity to create a major mining company through new mine development and strategic acquisitions, Norman has helped to grow Teck Corporation into a world-class mining entity that now employs more than 12,000 people worldwide. It's the most visible part of his legacy of economic growth, job creation and community leadership.

He joined Teck in the early 1960s, becoming President and CEO in 1981, then Chairman nine years after that. Throughout that time, Norman has been an outspoken advocate of safer working conditions, sustainable practices, and inclusion of northern

2T5 Mid Career Achievement Award

Helen Wojcinski (CIV8T7)

and native communities.

He is a Life Director of the Mining Association of Canada — apt recognition for his significant role in the creation of the association's environmental policy during his term as Chairman of MAC.

The Institute of Mining Engineering at the University of British Columbia is named in his honour.

He has also helped secure funding for several research chairs at UBC as part of his efforts to ensure Canada continues to produce entrepreneurial and talented mining engineers and

Malcolm McGrath Alumni Achievement Award

Paul Walters (MIN5T6)

geoscientists.

Perhaps the greatest symbol of his strong commitment to Canada was encouraging Teck's involvement with the 2010 Olympic and Paralympic Winter Games in Vancouver.

The corporation provided the gold, silver and bronze used to make the medals.

Norman's contributions to organizations and causes are numerous, including support of Vancouver General Hospital and providing an earth science scholarship at the University of Western Ontario.

Left: Alumni gather in the Hart House Great Hall to celebrate the 2012 Engineering Alumni Association Awards.

Helen has brought professionalism and confidence to the table for every challenging position in her career, including managing a \$250-million engineering project: the western extension of the Highway 407 Express Toll Route.

After earning her Civil Engineering degree and receiving the Gore and Storrie Civil Engineering Award, Helen embarked on a successful career as a project manager with Ontario's Ministry of Transportation.

The experience prepared her well for the 407 project. As an established civil engineer, she began moving into change management and organizational development, launching her own practice in 2002.

Armed with an MBA and a change leadership certificate from Western's Ivey and U of T's Rotman business schools, Helen combined her strategic planning and project management expertise for clients in a wide variety of industries including high technology, aerospace, hydro, telecommunications, community health care, as well as government at the federal, provincial and municipal levels.

She is currently authoring a case study with the Ivey School of Business on one of her projects with an agency of the Department of National Defence.

Helen has dedicated many years to enhancing the communities around her — whether that involved improving local health services or helping others to build leadership skills.

Civil Engineering students benefit from the volunteer hours she devotes as a mentor.

In addition to receiving the Ontario Professional Engineers Citizenship Award, Helen was named a U of T Arbor Award recipient in 2009.

The Class of 5T6 Award of Merit is the second-largest class fund in the Faculty.

One of the reasons for that is Paul's tireless work as Class Leader and President of the group. Each year, he organizes a fundraising campaign, chairs the executive meeting to plan the annual award reception luncheon and is extremely active during Spring Reunion.

As a member of the Office of the Registrar's Faculty Scholarship Committee, Paul helps select bright young Engineering students to receive the various scholarships and awards available.

As the alumni representative, he meets with faculty and student club leaders to review portfolios and applications, ensuring students qualify for the award based on criteria determined by donors.

His dedication helps to make sure students are celebrated both for their academic achievements and extra-curricular involvement.

Paul also volunteers his time as an industry consultant for a first-year design course, Engineering Strategies and Practice.

Through his company, he has been able to present workplace challenges to teams of students and provide constructive mentorship as they develop their final presentations.

When Paul served as president of the Engineering Society in 1956, and the Engineering Alumni Association in 1975, he showed great dedication and

leadership.

For his continued commitment and many years of dedicated volunteer service to this Faculty, he received an Arbor Award from the University of Toronto in 2007. ◆



Dean Cristina Amon and Prof. Barry Adams unveil Dr. Norman Keevil's plaque at the Engineering Hall of Distinction induction ceremony.



Teresa Simm, Faculty of Applied Science and Engineering and Nancy Hill (CIV8T1), Engineering Alumni Association Awards Committee Member.

milestones

New YouTube Channel Launched

The Department has recently gone live with our very own YouTube Channel, which features numerous short videos made by students, staff, and faculty.

The channel is designed to help people navigate the vast array of options and possibilities available at U of T in a fun, visual way.

It's also a change for us to introduce ourselves in a more personal way.

The channel was made possible by the hard work of graduate students Jimmy Lu and Kevin Zhang as well as Prof. Tamer El-Diraby and the support of the Faculty of Applied Science Dean's Strategic Fund.

The initial series of videos features staff interviews on student counselling, admissions, awards, and student life.

Several graduate students and their research work is highlighted, as well as a series of interviews with Professors working in diverse areas around the Department.

We even have a Mandarin-language interview with a sessional instructor!

Check our website for the link and updates throughout the year - we are always adding more content. 🏠

www.youtube.com/civmin



Viewers can see inside the structural engineering labs and join in on some of the advanced research taking place.

Prof. Constantin Christopoulos explains his research and his teaching philosophy in a new video.



Prof. Doug Hooton Receives Research and Development Medal

The Professional Engineers of Ontario have awarded Prof. Hooton a 2012 Research and Development Medal.

Doug Hooton is known internationally for his research on cementitious materials and concrete durability.

He is working to provide innovative and effective approaches for improving the environmental sustainability and durability of concrete, as well as providing leadership in the development of related codes and industry standards.

His research has already resulted in the ability of the Canadian building industry to produce more sustainable materials, including new cementitious systems that reduce carbon emissions by as much as 50%. 🏠

George Nowak (CIV7T3) Receives Engineering Excellence Medal

George Nowak's work to improve the safety and efficiency of airports has positively impacted communities throughout Canada and in 26 other countries around the world.

Nowak has applied engineering principles to bring innovation to the design and construction of airport pavements and related infrastructure.

He led the engineering infrastructure team for the Caribbean Airports Project, a major initiative in the 1980s to improve airport safety at 19 Caribbean airports.

Nowak is currently leading the design of the new runway at Calgary International Airport.

The awards were handed out at a gala on November 17th. 🏠

Opposite Top: All our scholars and the donors that made their awards possible in 2012. Thanks to everyone who came to this wonderful annual event.

Top Left: David King, recipient, and Renato Pasqualoni, donor, Inspec-Sol Scholarship Fund.

Top Right: Angela Hu, recipient, and Mrs. Antionette and Laura Agostinelli, donors, Fernando V. Agostinelli Memorial Scholarship.

Bottom Left: Taher Kamruddin, recipient, and Marisa Sterling, Professional Engineers of Ontario Foundation for Education Undergraduate Scholarship.

Bottom Right: Chris Bachmann, recipient, and Andy Kikites, Veronica Restrepo, and Hilda Gan, ITRANS Ontario Graduate Scholarship

Scholars and Donors 2012



Coming Events

CIV-MIN CSCE Career Fair

Thursday, January 10th 2013

Lobby, Medical Sciences Building
11:00 a.m. - 2:00 p.m.

Company registration:
www.civil.engineering.utoronto.ca

CIV-GEO-MIN Alumni Dinner 2013

Friday, February 8th 2013

Toronto, Ontario
6:30 p.m. Reception, 7:40 p.m. Dinner

Ticket sales and registration:
www.civil.engineering.utoronto.ca/alumni

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