

News from the Dean

Dear Students, Faculty and Staff,

As this semester draws to a close, I am pleased to report that the Dean's Office has completed and submitted to the Canadian Engineering Accreditation Board all required documentation for our upcoming accreditation review in January. I would like to extend my sincere gratitude to the team of tireless faculty and staff who made this possible. With this milestone accomplished, we now turn our attention to ensuring the visit is a success.

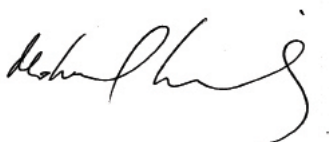
The Dean's Office also recently submitted an application to NSERC for a continued term of our Chair in Design Engineering. Thank you to all involved in completing our submission and also thanks to the faculty who participated in the site visit in early December.

I am also pleased to report that in 2011, largely due to contributions from FEAS, Ryerson reached a record number of submissions to NSERC's Discovery Grant and Research Tools and Instruments programs. Thank you to those researchers who applied. I hope to see your efforts justly rewarded.

I would like to take this opportunity to welcome two new faces to the Dean's Office. Dr. Michelle Mattern is our new Manager, Strategic Planning and Special Projects. Marie-Eve Couture has left and Margaret Meaney has filled her role of CRC Administrative Assistant, RiO. Welcome, Michelle and Margaret!

I would like to congratulate the students, faculty and staff highlighted in this issue of iMPACT on their well-earned achievements.

I wish everyone a happy holiday season and prosperous new year.



Dr. Mohamed Lachemi, P.Eng., FCAE, FCSCE
Dean, Faculty of Engineering, Architecture and Science



STUDENT SUCCESS

Former graduate students **Zhiyu (Andy) Zhang** and **Nishat Afrin** are making a huge iMPACT in terms of publications. Their papers are currently ranked by Elsevier (the world's leading provider of science and health information) as two of the top 25 most cited articles in their respective journals. Zhang and Afrin are former MASc students of **Drs. Sanjeev Bhole** and **Daolun Chen** in the Department of Mechanical and Industrial Engineering.

Computer Science students **Jaspaul Bola**, **Justin Lam**, **Damyan Petkov**, **Archuthan Vijayaratnam**, **Petar Kramaric**, **Srdjan Lakovic** and recent Ryerson MASc graduate **Stephen Johns** have combined their classroom and commuting experience to create GO Transit's first official mobile application, GO Mobile. For the full article, please visit www.ryerson.ca/news/media/General_Public/20111110_mr_go.html

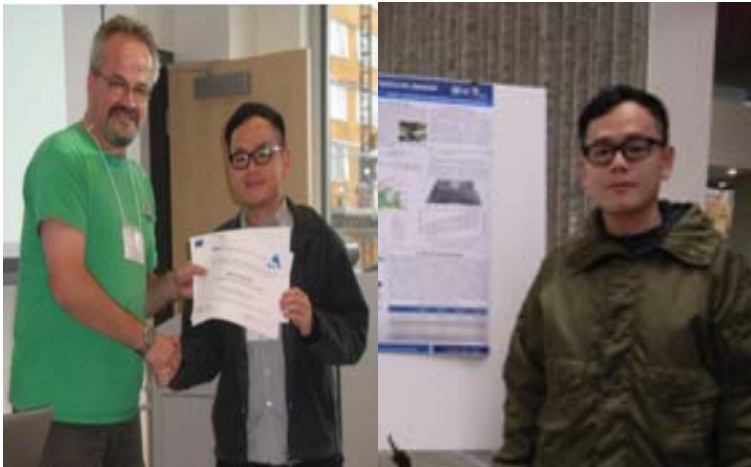
Student Success continued

Geomatics PhD student **Wai Yeung Yan** won best paper and best poster awards within one week in October 2011. Yan earned the best student paper award for his research presented at the Canadian Association of Geographers Ontario Division's (CAGONT) annual meeting. His research was supervised by **Dr. Ahmed Shaker** from the Department of Civil Engineering.

Yan earned the best poster award for his work presented at the Ontario Association for Impact Assessment's annual conference. His research was jointly supervised by **Drs. Ahmed Shaker** and **Darko Joksimovic** from the Department of Civil Engineering.

Below Left: Vice President of CAGONT Dr. K. Wayne Forsythe (left) and Wai Yeung Yan (right) at the award reception.

Below Right: Above: Wai Yeung Yan at the student poster challenge session in the OIAA 2011 Annual Conference



STAFF SUCCESS

FEAS Staff Recognition Awards

Congratulations to the 2011 award winners:

Kim Gallo, *Administrative Assistant,*
Aerospace Engineering

Among Kim's impressive contributions to her department is an internal departmental tracking system that she developed prior to RAMSS' advisement report to follow students' progress through the program. Kim was also the originator of the orientation program for second-year students. She is a member of the Human Resources AA/DA Training Committee and is the FEAS representative on the Registrar's Advisory Committee.

Devin Ostrom,
Technical Officer,

Mechanical and Industrial Engineering

Devin is being recognized for his work in designing and developing a CNC milling machine, which saved his department approximately \$120,000 in equipment costs. Devin's design has been adopted by other universities, including MIT. In addition, his innovations in measurement, sensors and instrumentation have had positive impacts on nine other courses.

Ali Hemmati, *Engineering Specialist,*
Chemical Engineering

Ali has been providing service to the Department of Chemical Engineering for over 15 years. He has been praised for his friendly demeanour as well as his technical brilliance. He is known as an excellent fabricator of laboratory equipment, one who takes the time to discuss the exact building and design requirements with students and researchers. The committee was impressed with Ali's commitment to students, and his willingness to stay late to finish "rush" jobs, specially when research projects are at stake.

Below: Examples of equipment built by Ali Hemmati.



FACULTY SUCCESS

Appointments

Dr. Ravi Ravindran (Mechanical and Industrial Engineering) has been announced as a Distinguished Life Member of the Alpha Sigma Mu International Professional Honor Society. The appointment recognizes Dr. Ravindran's distinguished international standing in the profession of materials science and engineering.

Dr. Krishna Kumar (Aerospace Engineering) has been named Associate Fellow in the American Institute of Aeronautics and Astronautics (AIAA). AIAA Associate Fellows are individuals of distinction who have made notable and valuable contributions to the art, science or technology of aeronautics or astronautics.

The following six faculty members have been appointed for three-year terms to the Keenan Research Centre, Li Ka Shing Knowledge Institute of St. Michael's Hospital:

Physics

Dr. Alexandre Douplik

Dr. Raffi Karshafian

Dr. Michael Kolios

Dr. Jahan Tavakkoli

Dr. Vladislav Toronov

Electrical and Computer Engineering

Dr. Karthi Umopathy

Awards and Grants

Dr. Xiao-Ping Zhang has been awarded a NSERC Collaborative Research and Development (CRD) Grant with funding of \$180,000 over three years for his project entitled, "Content based Intelligent Processing and Management of Visual Media for Children". This research is a collaborative effort between Dr. Zhang's lab CASPAL and industrial partner Kidobi, Inc.

Dr. Lian Zhao has been awarded Ontario Centres of Excellence funding to a maximum of \$105,000 over two years, for his project entitled, "Robust Power Line Communication for Automotive Applications", in collaboration with industry partner Mobile Climate Control.

Drs. Michael Kolios and **Sri Krishnan** have each received grants involving Sino-Canadian research collaboration jointly through CIHR and the National Natural Science Foundation of China (NSFC). Dr. Kolios will collaborate with Dr. Zhigang Wang from Chongqing Medical University. Dr. Krishnan will collaborate with Dr. Yunfeng Wu at Xiamen University on an NSFC project.

Faculty in the News

Dr. Alex Ferworn of Ryerson's Network-Centric Applied Research Team in the Department of Computer Science has been featured in an article entitled "The \$150 robot revolution. How Microsoft's affordable Kinect video game system is changing the world of advanced robotics" (www2.macleans.ca/2011/11/03/the-150-robot-revolution/).

Upcoming Connector Events

Following the success of the Water, Sustainability and the Environment, and the Smart Grid connector events in November and December, RiO is organizing two more connector events at the beginning of next year. The events are real opportunities to network and lay the groundwork for new collaborations. Researchers considering partnering with industry to further advance their research are invited to attend connector events in their respective fields. These events continue to fuel the momentum Ryerson has gained in terms of holding the most NSERC Engage grants per capita in Ontario.

The upcoming connector events are:

Information and Communications Technology (ICT) Industry-Researcher Connector

When: Tuesday January 24, 2012; 9:30 a.m. to 12 noon

Where: Markham Convergence Centre – Showcase room

Advanced Materials Industry-Researcher Connector

When: Thursday, February 16, 2012;

3:45 p.m. to 6:15 p.m.

Where: Cara Commons,
Seventh Floor, Ted Rogers
School of Management

Further details will be circulated in early January.