



The Manufacturing Society
Northern Lights Chapter # 370

The Northern Lights

May 2008

For the latest information check-out
<http://chapters.sme.org/c370/>

If you would like to be added to our monthly newsletter visit:
<http://maillists.bijouenhancements.com/lists/>

SME Northern Lights Chapter 370 proudly presents

The NAIT Shell Manufacturing Centre Presented by Dr. Deepak Srinivasagupta, Director

What do printing 3-D prototypes of biomedical devices and radio frequency identification device (RFID) tagging of police documents have in common? They are both examples of projects at the NAIT Shell Manufacturing Centre.

Though manufacturing is the single largest business sector in Canada, accounting for 2.3 million job positions and 18 per cent of all economic activity, it is not a healthy industry in Alberta due to labour shortages. Between 1994 and 2004, Alberta ranked last among provinces in annual growth of labour productivity and second last in capital productivity.

The NAIT Shell Manufacturing Centre evolved from consultations with industry that identified both a need for more skilled workers and for a facility where businesses can research, develop and test new products and processes.

The Centre includes three smart classrooms, and nine laboratories that can work with a range of materials from plastics to metal. Capabilities range from robotic welding, laser machining, injection molding, and enterprise resource planning software. Though high tech in nature, the Centre's outputs are practical products for today's world.

The event will include a short presentation about the development and capabilities of the Centre, followed by tours and demonstrations of the facilities, including robotics, metrology, rapid prototyping, RFID systems, and computer integrated manufacturing cells.

About Our Speaker:

Dr. Deepak Srinivasagupta is the Director of the NAIT Shell Manufacturing Centre. He has executed more than 30 projects in both industrial and academic research settings, in broad areas of advanced materials, process modeling, design, measurement, control, and optimization. He has Masters and Doctoral degrees in Chemical Engineering from Washington University, and his Bachelors degree is from the Indian Institute of Technology, Kharagpur, India.



NSMC-Lincoln robotic welding cell

WHERE TO GO!

NAIT – 11762 - 106 ST (Refer to map)
NAIT Shell Manufacturing Centre - Building B

Wednesday, May 14, 2008

Social Hour: 5:30 to 6:30 pm

Dinner: 6:30 to 7:30 pm

Presentation & Tour: 7:30 pm

PLEASE NOTE NEW COST STRUCTURE.

COST: \$30 members
\$30 first time guests
\$40 non members
\$10 student members
\$15 student guests

Member pricing is always extended to members of other technical societies such as ASM, AWS, CWA, NACE, CSME, ASME, etc.

**Please RSVP by 4:00 p.m.
Monday, May 12, 2008.**

RSVP Online for our event at

<http://maillists.bijouenhancements.com/sme/>

PLEASE DO NOT "REPLY" TO THIS NEWSLETTER

The SME Northern Lights Chapter normally holds technical meetings on the second Wednesday of each month except for the month of July and August.

REMEMBER...

Students and student members that attend the SME dinner meeting have a chance to win a FREE dinner drawn at the end of the meeting.



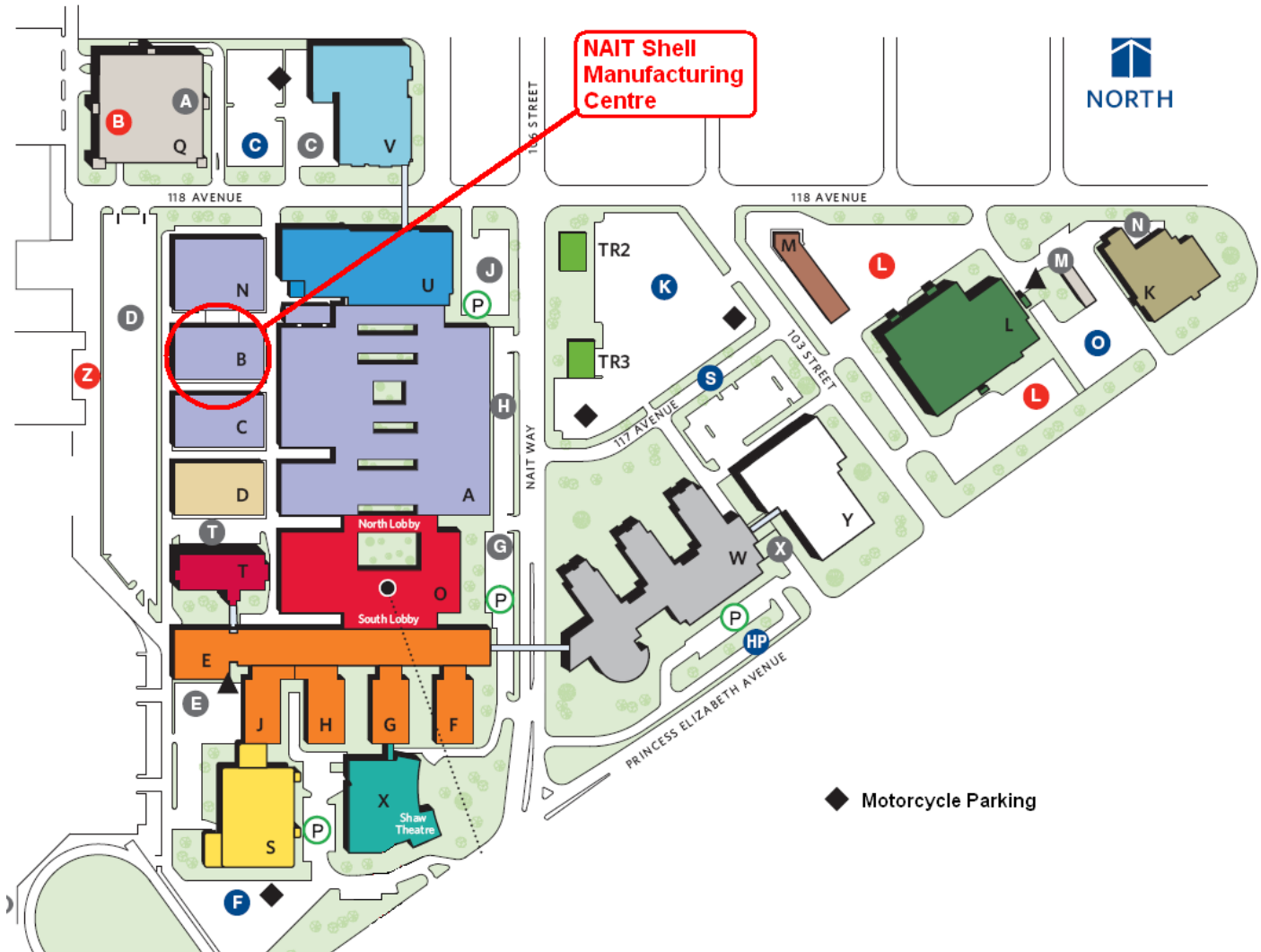
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Parking is available on Lot D, located just west of the Centre, or in Lot C, just north.

The parking fee is \$3.

Motorcycle parking is free in designated areas only. See the map for details.

Safety glasses are required in the labs. A limited number will be available, so please bring your own if you have some.



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The Northern Lights Highlights

8th Annual Capstone Honours Awards Night Mechanical Engineering Design Awards

On April 9, 2008, in conjunction with the University of Alberta's Department of Mechanical Engineering, the SME Northern Lights Chapter presented the 8th Annual Capstone Honours Awards for Mechanical Engineering design. The event honoured the best in student engineering design, innovation, and creativity. The presentations demonstrated how their designs met the desired operational requirements, how manufacturing considerations were taken into account, and how the applicable safety standards were applied.

The chapter wishes to extend a thank you to all of the guests who attended this years event. A thank you is also extended to Jordan James and the rest of the Capstone organizing committee for their outstanding work in organizing the event. And a final thank you and congratulations to all of the honoured students for their exceptional work. All the best to your future endeavors.



Students with their families and guests during the presentation.

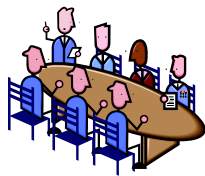


Honoured students with their Capstone awards.



Overall design team winners (L to R) Roberto Martinez, Jason Boddez, Darren Achtymichuk, and Michael Dawson.

Northern Lights Chapter Executive 2008



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Open Position

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Tom Clarke of Weldco-Beales Manufacturing in Edmonton, as well as committee member for the 2008 LARGEST Lean Conference ever to be held in Toronto October 20 to 24, is asking associations to take a look at their operations and their best practices and see if you are doing something great that manufacturing needs to hear. In order to sustain manufacturing in North America we are going to have learn from each other on how to adopt best practices. Conferences like the one being held this year in Toronto provide this networking and sharing opportunity. The week is filled with people eager to learn how to make their companies GREAT.

You will get one hour to share your experiences and best practices with those people. The link below is on the AME website. The document is the presentation submissions form and provides details about the responsibilities and criteria for the presentation. Please have a look and if you believe you have something people in manufacturing should hear then save a copy of the form to your hard drive, fill it out and submit it to Alicia Puim at: apuim@hotmail.com Alicia will then forward the submission to the conference committee for review. This conference will be the best ever!



Details at:

<http://www.ameconference.org/Toronto/documents/CFP.doc>

Thank you...

for reading the *Northern Lights*. If you are interested in presenting at a SME dinner, please contact Sherif Labib at sherifl@wellquip.ca. Kindly include the field you are working in and the subject you are interested in presenting to the chapter members and guests.

Remember to keep SME information current

- We do not wish any of our members or friends to miss a newsletter. Please make sure to inform the newsletter editor of any changes to your email or employment address.
- If you have any newsworthy stories or information, we would be pleased to include it in our newsletter, subject to editorial approval.
- If you know of anyone who would like to receive this newsletter, please send them to <http://maillists.bijouenhancements.com/lists/>. The best part about it—it's FREE!!