



The Manufacturing Society
Northern Lights Chapter # 370

The Northern Light

May 2006 'Happy Chinese New Year!'

Check Out our new Improved Website!!
<http://chapters.sme.org/370/>

New Hyperlink Edition - Please try our new active website and e-mail links.
For improved delivery efficiency, please provide your e-mail address to smenlc@yahoo.ca.



SME Northern Lights Chapter proudly presents

Mr. Gerald Beaudoin from

Micralyne, Inc

May 10, 2006 at the U of A Faculty Club

Topic : Design, Development, Prototype, and Manufacture of MEMS (Micro-Electro-Mechanical-Systems)-based products

About Micralyne Inc.

Micralyne's core business is to design, develop, prototype, and manufacture MEMS (Micro-Electro-Mechanical-Systems)-based products. Built on the scale of microns (i.e. 1000 microns = 1 millimetre), MEMS are miniature three-dimensional devices that make industrial components smaller, faster and less expensive. As the closest commercially available technology to nanotechnology in Canada, MEMS are driving significant innovations in all parts of society. Micralyne's micron-scale solutions are found in automotive emission sensors, optical switching technology, lab-on-a-chip medical devices, and commercial press equipment.

About Mr. Gerald Beaudoin

Born here in Edmonton, Gerald received his B.Sc. in Honours Physics from the University of Alberta in 1996. He then went on to receive his M.Sc. in Electrical and Computer Engineering in 2000. His M.Sc. project constituted developing remote detector heads for a fiber optic laser based trace gas detector. Upon graduation, he worked at JDS Uniphase helping to develop the next generation of MEMS based fiber optic attenuators. In 2003, he returned to his hometown to join Micralyne, a leading edge MEMS foundry here in Edmonton.

About the Presentation

After providing a brief overview of Micralyne technology and core competencies, Gerald will be speaking on the processes used to fabricate Microlenses. These devices are used extensively in the fiber optic telecommunications infrastructure. They are a great example of the many different types of processes that Micralyne uses to fabricate microdevices.

WHERE TO GO!

U of A Faculty Club
11435 Saskatchewan Drive
Wednesday, May 10, 2006
Social Hour 5:30 – 6:30 pm
Dinner 6:30—7:30 pm
Presentation 7:45 pm

COST: \$20 members
\$25 guests
\$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.

WHO TO CALL!

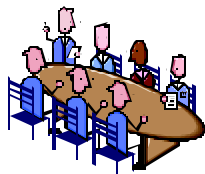
RSVP to SME voice mail at **619-0647** or e-mail smenlc@yahoo.ca by the end of the day Monday, May 8, 2006.



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 months of April (Capstone Honours – please note change from March to April), July, and August.

Northern Lights Chapter Executive 2006



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Chair-elect

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Mark your calendar:

June Tour Meeting—Quality Steel Foundry, Nisku—RSVP Required for event. Tentative 3:00pm tour scheduled—We may be able to watch a pour. Must have 30 participants to proceed with afternoon tour, if not evening tour instead. Email: smenlc@yahoo.ca to confirm

Reminder:



Students / Student Members that attend SME Dinner meeting have a chance to qualify for a FREE Dinner on SME. Drawn at the end of the meeting.

SME Launches new book...The Society of Manufacturing Engineers (SME) announced the release of *The Hitchhiker's Guide to Lean: Lessons from the Road* www.hitchhikersguidetolean.com, a book that shares lessons learned from real applications and results of applying lean.

Did you Know..?

SME Offers Professional Development in the following areas.

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To learn more visit: http://www.sme.org/cgi-bin/cerhtml.pl?cert/lean_certification.htm&&SME&

LEAN DIRECTIONS
The e-Newsletter of Lean Manufacturing

Lean Manufacturing E-Newsletter available from SME at www.sme.org

Thank you...

for reading the *Northern Light*. If you are interested in presenting at an SME dinner, please contact Alex Connell, alex.connell@sulzer.com. Kindly include the field you are working in and the subject you are interested in presenting to the chapter members and guests. Thank you.

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 forward his or her address to Stephen Parkes at shparkes@shaw.ca. The best part about it - it's FREE!!
- Your SME Northern Light Newsletter can be viewed online at <http://chapters.sme.org/370/>.

Capstones Design Awards Summary April 12, 2006

The following is a summary of the winners in each design category.

NORTHERN LIGHTS AWARD - TECHNICAL EXCELLENCE

And

GLATZ MEMORIAL AWARD

FSAE Composite Chassis

Matthew George

John Kjellbotn

Peter Kjellbotn

Joseph Marcos

NORTHERN LIGHTS AWARD - DESIGN FOR MANUFACTURE

Fire and Shock Proof Data Logger Case

Patrick Chan

Elke Grimsrud

Logan Jones

Allan Ziegler

PRECIMAX AWARD - DESIGN FOR MANUFACTURE

MAG Rotary Tool for HVAC Air Flow Measurement

Adrian Audet

Andrew Gerber

Chris McCann

THORSTEN WATTERODT AWARD - DESIGN CREATIVITY

Greenhouse Heating System

Micha Ben-Zvi

Candice Heron

Sheldon Pinto

Sarah Sutherland

Junior Honours Design Award

Michael Corea

Christopher Hunt

Phil Ophus

Spencer Torrie

CSME GOLD MEDAL

Richard Ng

Bruce McGregor Communications Award Nominee

Page Smith