



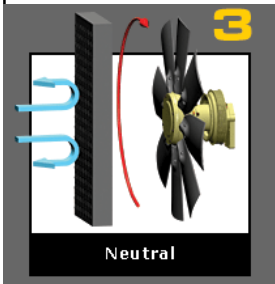
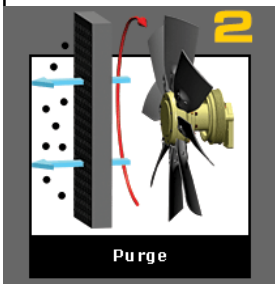
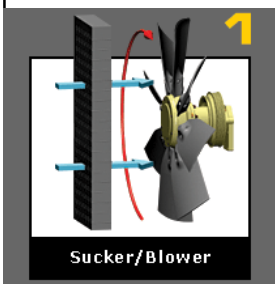
The Manufacturing Society  
Northern Lights Chapter # 370

# The Northern Light

December 2005

**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](mailto:smenlc@yahoo.ca).



SME Northern Lights Chapter proudly presents Mr. Tom Clarke of ...



[www.flexxaire.com](http://www.flexxaire.com)

December 14, 2005 at the U of A Faculty Club

Flexxaire Manufacturing Inc. has been providing innovative cooling solutions for the heavy equipment industry since 1989. Their fan systems have been successful in the forestry, agriculture, mining, construction, recycling and waste handling industries. Many equipment manufacturers install Flexxaire fan systems at their factories. Flexxaire began its Lean journey in 2002. Lean tools now compliment the company's continued quest to meet increasing customer requirements, build a quality product and improve profitably. Flexxaire employs 36 exceptional people.

### Mr. Clarke's Biography

Tom Clarke is Lean Leader and Special Projects Manager at Flexxaire Manufacturing Inc., an Edmonton-based manufacturer. Tom's responsibilities are varied and change as the company's needs change. He currently covers implementation of the Lean Manufacturing philosophy, and is the factory representative and main contact for one of Flexxaire's largest customers. Tom also gets involved in many unique projects and is part of the Flexxaire management team. Tom has 15 years of manufacturing experience, 13 of which have been with Flexxaire. Flexxaire is into the fourth year of their Lean journey. Tom is also part of the Edmonton Manufacturing Consortium board of directors.

In 1989, Tom completed the Mechanical Engineering Technology program at Kelsey Institute in Saskatoon, Saskatchewan. He is a Certified Engineering Technologist and has been a member of the Alberta Society of Engineering Technologists since 1993. Tom moved to Edmonton in 1992 to take a draftsman position with Flexxaire Manufacturing Inc. Since he started, Tom has held several positions within the company and has held management positions since 1995.

This presentation will discuss the journey and the results to date. It will detail how Flexxaire uses technology and people to improve their products and systems. There will be examples of how engineering uses technology to develop new fan blade profiles and how technology improvements in the wind tunnel test facility improve design. Sales deliver orders direct to production. Production uses equipment and layout to achieve improved capacity and throughput. How Flexxaire has learned to use Lean tools and their people to improve the product and processes. The presentation will show how Flexxaire has Learned, Endured And Never given up on their lean journey. "We have come a long way but the road ahead is filled with opportunity". **Prepare to be Blown Away!.....**

### WHERE TO GO!

U of A Faculty Club  
11435 Saskatchewan Drive  
Wednesday, December 14, 2005  
Social Hour 5:30 – 6:30 pm  
Dinner 6:30—7:30 pm  
(SME Executive Elections—7:30 to 7:45)  
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!

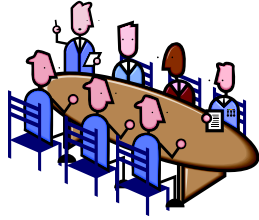
RSVP to SME voice mail at **619-0647** or e-mail [smenlc@yahoo.ca](mailto:smenlc@yahoo.ca) by the end of the day Monday, December 12, 2005.



**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



### Chair

Andrew Hanson,  
[andrew.hanson@canada.weatherford.com](mailto:andrew.hanson@canada.weatherford.com)  
Weatherford Wellhead Systems 436-4450

### Chair-Elect

Rick Chetram, [rchetram@shaw.ca](mailto:rchetram@shaw.ca)  
N.A.I.T. 471-8739

### Past Chair

Mike Rees, [mike.rees@Halliburton.com](mailto:mike.rees@Halliburton.com)  
Sperry-Sun Halliburton 955-4942

### Secretary

Alex Connell, [alex.connell@sulzer.com](mailto:alex.connell@sulzer.com)  
Sulzer Metco 992-5117

### Treasurer

Matthew Webster,  
[mattheww@academypetroleum.com](mailto:mattheww@academypetroleum.com)  
Academy Petroleum Industries, 466-6360

### Vice-Chair, Membership

**VACANT**

### Vice-Chair Program

Serge Lema, [serge.lemay@halliburton.com](mailto:serge.lemay@halliburton.com)  
KBR, 490-3116

### Vice-Chair, Special Projects

**VACANT**

### Newsletter Editor

Stephen Parkes [shparkes@shaw.ca](mailto:shparkes@shaw.ca)  
LOP Inc, 463-7001

### Capstone Committee Chair

Craig Clark, [cwclark77@yahoo.com](mailto:cwclark77@yahoo.com)  
Weatherford Completion Services 465-9311

### Mailing Address

Society of Manufacturing Engineers  
Northern Lights Chapter #370  
5328 Calgary Trail South  
Box 1333  
Edmonton, AB T6H 4J8

## Thank you...

for reading the *Northern Light*. If you are interested in presenting at an SME dinner, please contact Serge Lema, [serge.lemay@halliburton.com](mailto:serge.lemay@halliburton.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.

## Mark your calendar:

Our next dinner meeting will be held on January 11, 2005.  
Watch your email for details.

**Chapter Executive Elections — Dec 14 , 2005 7:30 to 7:45pm during Technical Presentation**

### 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.

## The Capstone Committee Announcement!

The Capstone Committee is currently seeking donations for 1/4" 304 stainless steel plate to manufacture trophies for this year's award winners. The materials and time to manufacture the trophies are all donated from the manufacturing community. Please contact a committee member if you can help.

Capstone Award Night.....April 12, 2006.

## ASM International and SME

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Jointly present a one day seminar on  
**Metallurgical Failure Analysis**

Presenter: Dr. R. Craig Jerner *PhD PE*  
J.E.I. Metallurgical Inc. Dallas, TX, USA

**February 24, 2006 (Friday)**  
**University of Alberta Campus, Edmonton**

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*See attached announcement for further details.*

## Joke of the Month!

Q: *Who ...runs the leanest, JIT factory on the globe.*  
*...has customers worldwide*  
*...uses only one method of distribution.*  
*...has never had a package delivered late?*

A: *HoHoHo.*

## 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](mailto: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/>.

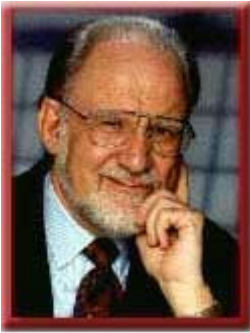
**ASM International and SME**  
Jointly present a one day seminar on

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**Metallurgical Failure Analysis**

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Presenter: Dr. R. Craig Jerner *PhD PE*  
J.E.I. Metallurgical Inc. Dallas, TX, USA



**R. Craig Jerner,  
Ph.D., P.E.**

Dr. Jerner is uniquely qualified to perform industrial failure analysis, consumer product failure analysis and to serve as a metallurgical expert witness or metallurgical consultant. His reputation for excellence is based upon **35 years of successful professional activities** as university professor of metallurgical engineering, assistant dean, research metallurgist, accident investigator, metallurgical consultant and metallurgical expert witness in **over 1000 industrial accident investigations and failure analyses.**

He has testified as a metallurgist and metallurgical engineering expert witness and metallurgical consultant in more than **225 depositions**, and more than **65 Federal and State court appearances** for plaintiffs and defendants. His philosophy is to investigate, as thoroughly as possible, all metallurgical and accident evidence in order to develop the most probable accident or failure scenario consistent with available physical evidence and developed data/test results.

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**February 24, 2006 (Friday)**

**University of Alberta Campus, Edmonton**

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Contact Shannon Jolivette at (780) 450 8989 X227 or  
email [asm.edmonton@shaw.ca](mailto:asm.edmonton@shaw.ca) for further details.