



The Manufacturing Society
Northern Lights Chapter # 370

The Northern Light

February 2006 'Happy Chinese New Years!'

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.



Banque de développement du Canada
Business Development Bank of Canada

SME Northern Lights Chapter proudly presents

Mr. Warren Jackson from

Business Development Bank of Canada

www.bdc.ca

February 8, 2006 at the U of A Faculty Club

About BDC

BDC is a financial institution wholly owned by the government of Canada. BDC plays a leadership role in delivering financial, investment and consulting services to Canadian small businesses, with a particular focus on the technology and export sectors of the economy. Building on 60 years of success as Canada's small business bank, BDC provides solutions to today's business challenges to help small businesses develop into tomorrow's business leaders. BDC's experienced, highly-trained account managers and business consultants provide superior, customized service to meet the individual needs of entrepreneurs at every stage of their business development.

Presenters Bio

Mr Warren Jackson grew up in Saskatchewan on a farm. Received two degrees from University of Saskatchewan, a Bachelor of Arts & Science (Economics/Math Majors), and a Bachelor of Commerce (Finance/Mkt Majors). Joined BDC in Saskatoon in May 1997. After many promotions to Senior Manager Loans, he transferred to Edmonton in December 2001 to become Branch Manager of a newly-created Edmonton South Branch. In April 2004, he moved downtown to become Area Branch Manager of Business Development and Underwriting for the Alberta North Area.

About the Presentation

Mr Jackson will cover a bit about BDC and what we do. After which he will focus on "Starting a Business", following through some of the steps necessary to assess your business viability to wrapping up your first year. Mr. Jackson will introduce a variety of tools BDC has available online to help with a business start-up. He will also cover some of the financial solutions BDC has to offer. Lastly he will cover some of the consultation services available like business planning to management coaching. ***If you have an idea that you want to ask questions about now is the time. See you there.***

WHERE TO GO!

U of A Faculty Club
11435 Saskatchewan Drive
Wednesday, February 8, 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!

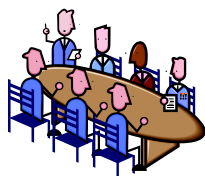
RSVP to SME voice mail at **619-0647** or e-mail smenlc@yahoo.ca by the end of the day Monday, February 6, 2006.



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



Chair

Rick Chetram,
rchetram@shaw.ca
NAIT, 471-8739

Chair-elect

Geoff Steele,
gsteele@vaportechinc.com
VapourTech Energy Services, 485-1906

Past Chair

Andrew Hanson,
andrew.hanson@canada.weatherford.com
Weatherford Wellhead Services, 436-4450

Secretary

Hesham Ahmed
h.ahmed@tinspections.com
T&T Inspections and Engineering, 955-9688

Treasurer

Jason Shewchuk,
jason@shewchuk.ca

Vice-Chair, Membership

Mark Lea-Wilson, mark.lea_wilson@natoil.com
National Oilwell, 944-3952

Vice-Chair, Tech Program

Alex Connell, alex.connell@sulzer.com
Sulzer Metco, 992-5117

Vice-Chair, Special Projects

Calvin Austrom, caustrom@masterflo.com
Master Flo Valve Inc, 468-4433

Newsletter Editor

Stephen Parkes shparkes@shaw.ca
LOP Inc, 463-7001

Capstone Committee Chair

Craig Clark, 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

Mark your calendar:

Our next dinner meeting will be held on March 8, 2006.
Watch your email for details.

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.

The Capstone Committee Announcement!

The Capstone Committee is pleased to thank Vapor Tech Inc and Copper & Brass Sales (Vancouver) for their generous donations of materials for the manufacturing of several more Capstone Awards. We are still seeking a few more items to complete the awards. If you can assist us please contact either Craig Clark or Geoff Steele for more information. Thank you.

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

Capstones Award Trophy
This is what it looks like.



ASM International and SME 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

**Friday, February 24, 2006 at the
University of Alberta Campus, Edmonton.**

See attached announcement for further details.

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/>.

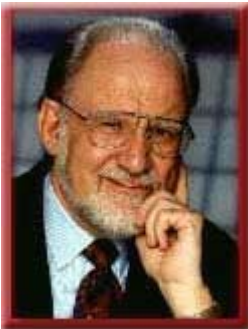


ASM and SME
Jointly Present a
One Day Seminar



Metallurgical Failure Analysis

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.

February 24, 2006 (Friday)

University of Alberta Campus, Edmonton

Contact Dr. Chinnia Subramanian (tel: 577 6778 / cell: 970 4235)
email chinnias@blackcatblades.com for further details

Visit ASM or SME Chapter web sites:
www.asm-edmonton.org or <http://chapters.sme.org/370/>

Seminar Outline

1. Introduction to Failure Analysis
2. Levels of Analysis
3. Failure Analysis vs. Root Cause Analysis
4. Accident Investigation Process & Documentation
5. Testing Protocols
6. Mechanical Failure Modes
7. Ductile Overload
8. Distortion Failures
9. Macro and micro characteristics
10. Brittle Failures
11. Metal Fatigue
12. Intergranular and Transgranular
13. Chevron formation
14. Other distortion Failures such as Buckling, Creep, Torsion, Hydrostatic
15. Manufacturing Defects – Casting, Welding and Design
16. Corrosion failures

The presentation will include several real world examples that the presenter has been personally involved in.

Registration

Send your registration form with appropriate fee to

Dr. Chinnia Subramanian	Phone: 577 6778
Black Cat Blades Ltd.	Cell: 970 4235
5604 – 59 Street	Fax: 463 6389
Edmonton, Alberta T6B 3C3	Email: chinnias@blackcatblades.com

Payment is by checks only. No purchase orders please. Make checks payable to **ASM Edmonton Chapter**. There is no on site registration. No need to add GST as ASM Chapter is GST exempt. Receipts and directions will be provided by email only unless otherwise specifically requested.

Limited Seats – Register soon to get early bird discounts and ensure a place. Early registration ends January 31, 2006 and all registrations end February 17, 2006

Registration Fee Details

	Before January 17, 2006	After January 31 till February 17, 2006
Members of ASM and SME	\$295	\$345
Non-members	\$345	\$395
Students	\$100	\$150

Make checks payable to **ASM Edmonton Chapter**.

Do not add GST as ASM Edmonton Chapter is GST exempt.

Registration fee includes a copy of USD\$125 value book titled **Understanding How Components Fail** by Donald J. Wulpi

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Jointly present a one day seminar on

Metallurgical Failure Analysis

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

Feb 24, 2006 (Friday) at the University of Alberta

Name	
Company	
Address	
Tel	
Fax	
Email	
ASM/SME Member #	
Check Amount Enclosed	\$

Do you agree to distribute your contact details to other attendees **YES/NO**

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Non-members	\$345	\$395
Students	\$100	\$150

Make checks payable to **ASM Edmonton Chapter**
Photocopies of this form acceptable

Mail to
Dr. Chinnia Subramanian
Black Cat Blades Ltd.
5604 – 59 Street
Edmonton, Alberta T6B 3C3

Fax to (780) 463 6389

REGISTRATION FORM

Contact Dr. Chinnia Subramanian (tel: 577 6778 / cell: 970 4235)
email chinnias@blackcatblades.com for further details

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