

SOCIETY of MANUFACTURING ENGINEERS TORONTO CHAPTER 26 OCTOBER 2001



<http://www.sme-toronto-26.org>



Tour: AAVID Thermalloy Canada Solving thermal problems

Wednesday October 10, 2001, 7:00 PM

*AAVID Thermalloy Canada
440 Hanlan Road
Woodbridge, Ontario, L4L 3P6*

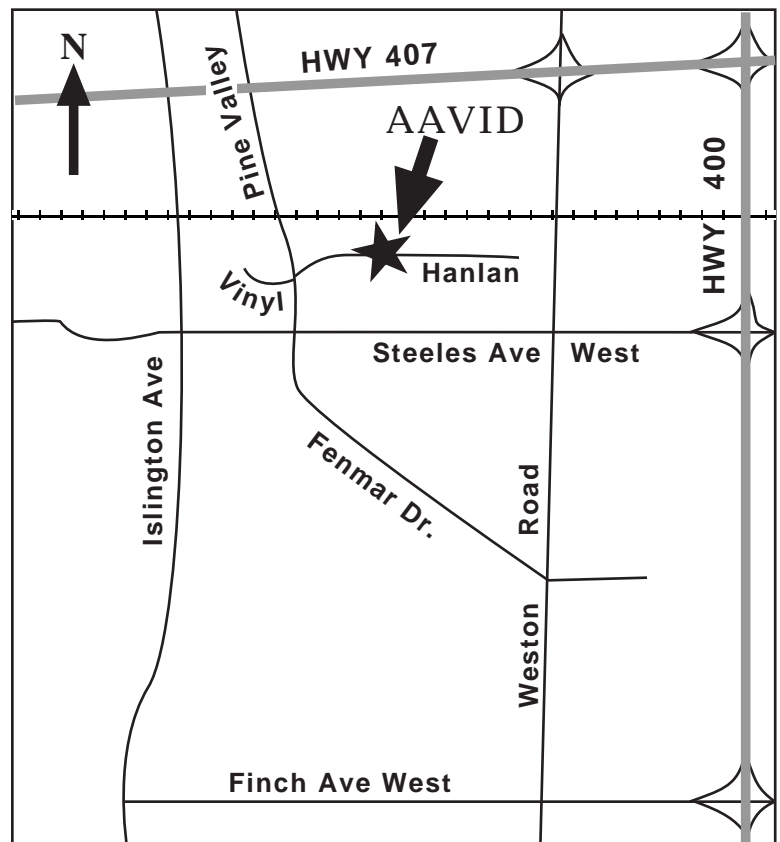
RSVP to Ken Kogej 416-402-3146 or ken-dante@msn.com

In business since the early 70's, AAVID Thermalloy Canada is devoted exclusively to solving thermal problems. They place world-class engineering resources at the disposal of their customers and help them solve the heat problems associated with electronic and high-power devices across a wide variety of markets. They design and manufacture a variety of heatsinks made from various metals including aluminum and copper.

AAVID Thermalloy is part of the global company, AAVID Thermal products. With investment made in advanced manufacturing technologies, AAVID is positioned to be the total Integrated Solution for Cooling Electronics, delivering:

- World-class thermal design services
- Thermal flow analysis software
- Worldwide, quick-ramp, high-volume manufacturing
- Full cnc capabilities
- 100+ employees over three shifts.

Check out <http://www.avid.com>



Our theme for the year: FUTURE GROWTH AREAS IN MANUFACTURING p 4

What do you want in our programs?

Doug Radersma got tired of me asking what he wanted our program to include. So he wrote down the topics he would like to see us present:

Recycling - what are the options and how will they affect manufacturing

Material and process advances in steels, Non ferrous, and heat treating (Super cold vs hot)

Plastic - new materials and how we handle them - vacuum, blow, RIM, and injection molding.

New metal processing and when to use them such as hydroforming Environment and manufacturing.

What are the key industrial pollutants, how do we handle them, what are the alternatives.

Please help us figure out how to address these issues. What else?

George Heintzman
gheintzman@sympatico.ca

Some material from the last session and from some previous sessions is on the Chapter website at <http://www.sme-toronto-26.org>

Review of Chapter Meeting September 19, 2001

Speaker: Isis Caulder, Patent lawyer and patent agent, Bereskin & Parr

An excellent, enthusiastic, well prepared talk. One measure of a talk is the questions it provokes. Not only were there many questions but the thought that went into the questions showed that this topic was of key interest.

One example of a key point is that if you discuss an idea with somebody without a non disclosure agreement the courts will maintain that the idea is in the public domain. So if you want to patent it keep your mouth shut with suppliers, customers, trade shows, and everywhere until you have filed for the patent. Then tell everybody the patent is pending.

The information on the transparencies that Isis presented is on our web site at:

<http://www.sme-toronto-26.org/smeto26/pages/Fprog1Sept19Slides.htm>

(Note: when typing this URL into your browser address window, make sure it is all one line with no spaces.)

THIS SEASON: Topics & Schedule

2. Wednesday, October 10. Tour. AAVID Thermalloy Canada Inc.
3. Wednesday, November 21. Tour TBA
- 2002
4. Wednesday, January 9. Talk TBA
5. Wednesday, February 6. Talk TBA
6. Wednesday, March 6. Tour TBA
7. Wednesday, April 3. Talk TBA
8. Wednesday, May 1. Tour TBA
9. Wednesday, June 5. RP Overview and Update Panel

Bulletin Copy Deadlines

NOTE: Send material to Jenny Ono Suttaby at jono@jentekcompany.com by the following dates for inclusion in the upcoming Chapter Bulletin:

November Issue: October 8, 2001
December/January Issue: November 29
February Issue: January 10, 2002
March Issue: February 10
April Issue: March 10
May Issue: April 7
June Issue: May 7

Executive Meetings

EXECUTIVE MEETINGS:

Thursday, September 27
Thursday, October 25
Thursday, November 29
December - if needed
2002
Thursday, January 31
Thursday, February 28
Thursday, March 21
Thursday, April 25
Thursday, May 30
Thursday, June 13

For additional information on the next meeting phone 416-467-8298 or e-mail: gheintzman@sympatico.ca or Ken-Dante@msn.com.

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Our continuing thanks to Professor Mark Fox, U of T, for hosting the Chapter's web site on his server at <http://www.novator.cm>

An Example: What SME Does for Younger Members

Last month in this bulletin you read how Ryerson student John Camarda asked some guys in the lobby at the SME annual convention in Seattle to help him spruce up his resume. They turned out to be engineers from Boeing. They gave him some pointers. Then offered him a job.

Now John has been asked by his professor to raise money from industry to sponsor several student design projects. John came to the Toronto SME Executive and asked for help. We are glad to help and will do so in two ways:

John will accompany Ken Kogej and Bruce Keeling when they ask our sponsors to renew chapter support. This will introduce him to key people in industry and allow him to watch how you ask for money.

John will sit down with George Heintzman to prepare a presentation to take to industry to ask for money to support these projects

Continuing professional development is what our chapter is about. Its about learning all the stuff you need that you didn't learn in school or on the job. Its about networking - meeting people who can help you. Get involved! Get a lot out of your chapter and your society. Join us - we'll help all we can.

*George Heintzman
gheintzman@sympatico.ca*

Society of Concurrent Product Development (SCPD)

New Toronto Chapter!

Mission: To promote the application of Concurrent Engineering (CE) and Integrated Product Development (IPD) in organizations located in Central Canada. SCPD accomplishes its mission through chapter meetings, conferences, special education programs, national and local publications and the SOCE Web Site - all with an emphasis on practical applications for superior performance.

Chapter Opening Meeting: The first meeting will be held on October 16, 2001 at 10 Queens Quay W, Second Floor at 7:00 pm,

- Come out and meet our Board of Directors
- Admission: \$5, includes light refreshments

Guest speaker: Dr. Peter Barnard, CEO Iter
Presentation: Fusion Technology - the Canadian Plan to Host Iter.

Fusion energy holds promise as a global source of inexhaustible, clean and environmentally safe energy – energy that will be needed to meet a large share of the world's fast growing demand. Dr. Peter Barnard is Chairman and CEO of Iter Canada, a non-profit organization working to bring the Iter Project to Canada – the next step in the development of fusion energy.

The web site for the Society of Concurrent Product Development is at www.soce.org/toronto/index.htm. Please check there for further informaion.

*Stephen Armstrong
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Information and links at: <http://www.sme-toronto-26.org/>

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Career Planning is the Antidote to Boom-Bust Cycle

The October 17th issue of business week reports on page 36 what the US department of labour thinks happens to workers who are laid off. 21% are unemployed or left the labour force; 41% have a better paying job; 26% have a job which pays less; 11% are self employed or are working part time. But we have to expect business down turns.

This cyclical belt tightening are part of progress. When times are good we make all kinds of investments. Its only when times are tough that we cut out that which is no longer useful:

- Products
- Processes
- Warehouses
- Distribution channels
- Plants
- Promotion

We need both parts of the cycle to make progress; invest in the good - cut out the bad. It seems we need very exciting opportunities before we invest. We also seem to have to have a great deal of pain before we stop doing things we can no longer afford. Government needs more pain for a longer time than private enterprise - its a rule.

So if we are going to have business cycles what can we do about it? How can we ensure that we are part of the 80% that has a job?

The answer is "Have the right skills and apply to the right companies". This is where a professional society such SME plays a role.

In our April meeting we broke skills down into: hard skills - how to make stuff - and soft skills - how to get others to do what we need them to do - plus planning and self management skills.

SME can help in all these areas through direct courses and networking. To see the power of networking see John Camarda's report of how he met some Boeing engineers at the SME annual conference and they offered him a job (second page bottom right of the September bulletin at <http://www.sme-toronto-26.org/smeto26/pages/pdf/SME-Sept-01.pdf>).

The people you meet at SME can also help you figure out which are good companies to work for and when opportunities become available.

If you have a program suggestion please send it to us.

George Heintzman
gheintzman@sympatico.ca

Please - Update Your Information

UPDATE YOUR INFORMATION

Please check that your information in the SME headquarters database is correct!

Phone (toll free): 1-800-733-4763

Website: <http://www.sme.org/>

You can renew your membership on line by clicking on "Renew Membership" in the Member Services section.

Our theme for the year: FUTURE GROWTH AREAS IN MANUFACTURING

Looking into our crystal ball, we try to see through the blur of conflicting ideas which areas of industry will be in a growth phase over the next several years. Our guess is that about five areas will be in growth. Infrastructure is one - the deteriorating roads, rail, transport in general will all need serious attention. Medical research is another. It will introduce products needing manufacturing systems for mass production. Garbage and other product recycling will be (is!) a necessity. In about 15 years people will start to get serious about energy. Energy from sources such as wind power, solar power, and biomass power will, in our crystal ball, all be growth areas - not only for the sake of reducing global warming, but for changes in the supply of oil which may occur in the future. This change will mean we will have to manufacture new products to use energy, produce energy, transmit energy, store energy, and conserve energy more efficiently.

These changes will offer tremendous opportunities for our members if they recognise them and ride them.