

SOCIETY of MANUFACTURING ENGINEERS

TORONTO CHAPTER 26

OCTOBER 2003



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



Talk: *The New Global Supply Chains, Threat or Opportunity?*

Thursday October 23, 2003

Speaker: *Todd Evans*

Team Leader, *Economic Analysis and Forecasting, Export Development Canada (EDC)*

5:30 Social, cash bar
6:00 Dinner
7:00 - 9:00 Talk

Le Navi Restaurante
4120 Steeles Avenue West
Woodbridge, Ontario
Phone: 905-850-8064

The Presentation:

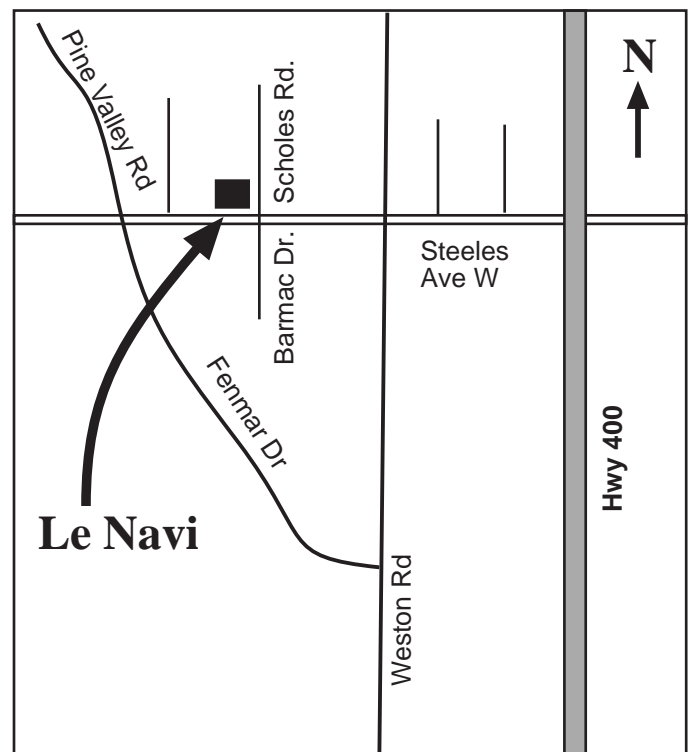
The presentation will focus on the emergence of global supply chains through the past decade and how this has affected global trade and production patterns. The talk will also address the role of China in the global supply chain and how the ensuing competitive pressures are affecting Canadian exporters.

Mr. Evans has 15 years of experience as a professional economist. He has worked with various public and private sector organizations including the Economic Council of Canada and the Conference Board of Canada. Mr. Evans has a BA degree in economics and statistics from Memorial University of Newfoundland and an MA degree in economics from Carleton University in Ottawa, Canada. Mr. Evans specializes in international trade and investment issues.

Please sign up with Loris Giuricich by October 20. 416-448-2225 or e-mail to Lgiurici@celestica.com \$35 for members (CMMA, PMA & CTMA included), \$45 for non-members, student members \$25; includes meal tax & gratuity.

Directions:

The restaurant is on the north side of Steeles Avenue, a few blocks west of Highway 400. It has a very large sign.



Mark Your Calendars: THIS SEASON: Topics & Schedule 2003-04

Wednesday November 26: Tooling Talk by ISCAR - Joint meeting with CMTDMF* & PMA*, also AGM and election of Chapter 26 Officers. Please see page 3.

Thursday January 22, 2004: Tour of Mouldmaster

Thursday February 19: Automation Talk. Joint meeting with PMA**

Thursday March 25: Automotive Tour - Ford or Honda

Thursday April 22: Dafasco Talk. Joint meeting with PMA**

Thursday May 20: College Tour.

* CMTDMF = Canadian Machine Tool, Die & Mould Federation

**PMA = Precision Metal Forming Association

Executive Meetings

EXECUTIVE MEETINGS 2003 6:30 pm start:

LOCATION: ApexiaNet/HiTech Institute offices at: 842 Yonge Street West, Suite 300 (Yonge and Bloor)

Wednesday November 5

Wednesday December 3

For additional information on the next meeting phone 416-701-7160, or snguyen_2050@hotmail.com

The SME Chapter 26 Bulletin

The SME Chapter 26 Bulletin is published eight or nine times a season by the Toronto Chapter of the Society of Manufacturing Engineers (SME). The SME provides support for people and industries in manufacturing by providing opportunities for networking, professional development and technical information.

Headquarters of this 70 year old professional society are in Dearborn, Michigan. For more information or to join, phone or email the Chapter Chair, Son Nguyen, at 416-701-7160 snguyen_2050@hotmail.com or Headquarters at 1-800-733-4763.

Talks and tours put on by the Chapter are listed on the Chapter web site at www.sme-toronto-26.org Headquarters web site is at www.sme.org

Your Company Flyer Bulletin Enclosure Special Offer!!

Chapter 26 is offering companies the opportunity to enclose their company flyer in our monthly Bulletin mailing. We have a special offer for the coming year. Enclosure in

one issue:\$300

four issues:\$1000

eight issues.....\$1800

We mail Bulletins 8 times a year (Sept., Oct, Nov, Dec/Jan, Feb, Mar, April, May) to nearly 500 manufacturing professionals in the GTA. For more information please get in touch with Ken Kogej, 416-274-2540 or Kendante.msn@attcanada.net

The piece to be included must meet the following criteria:

- 500 folded flyers ready for stuffing into a #10 envelope supplied by 1 week after copy deadline.
- Is of interest to our membership - is manufacturing oriented (we don't want life insurance or travel brochures)
- Weighs less than 3 sheets of 8.5 x 11 in 20 lb bond paper. Larger items could be negotiated.
- We reserve the right to reject pieces we do not feel to be consistent with our professional goals and objectives.
- We reserve the right to change any of the above items without prior notice.

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:

October Issue: by September 15

NB: Please -update Your Information

Please check that your information in the SME headquarters database is correct or renew your membership online!

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

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

The Joseph R. Benedetto Scholarship

The Application Form for the Joseph R. Benedetto Scholarship is available on the chapter web site at www.sme-toronto-26.org.

Non-members can subscribe:

Price: \$2.50 Cdn. (included in the price of membership)
Annual subscription to this Bulletin \$20 (8 issues)
SME Membership \$85 USD available at: www.sme.org or 313-271-1500

EXECUTIVE LIST

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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.com				

Change in Executive

Son Nguyen has moved up to the position of Chapter Chairman for the remainder of 2003. The Nominating Committee has appointed Past Chair, George Heintzman, to be Interim Vice Chair for the remainder of the year. He will not move up to the Chair position in 2004. Wen Chen will remain as Treasurer, and Rick Marme as secretary.

Slate of Nominees for 2004

Consent has been given by the following candidates to stand for office for the year 2004, as follows:

Farhad Shafiei, Chair Elect,
Rick Marme, Secretary, and
Wen Chen, Treasurer.

Son Nguyen, this year's Chair Elect and Chair for the remainder of this year, automatically moves up to the position of Chair for 2004.

Elections will take place at the Program and General Meeting on Wednesday November 26, 2003. At that time nominations from the floor will be accepted. A seconder is required and the nominee must be present and clearly express the desire to stand for the office to which he/she is nominated.

Conservation of Electricity:

What encourages proper use and conservation of energy? What encourages innovation in production, transmission and storage of energy? What is a reasonable price for Electric power?

Source	Place	Price/kwh Cdn cts	Price/kwh US cts
Ontario Law	Ontario	4.30	3.05
Internet Aug 27 2003	Alberta	6.70	4.76
Internet Aug 27 2003	Texas	16.34	11.60
Economist Aug 23 2003	US average	11.27	8.00
Economist Aug 23 2003	France	13.80	9.80
Economist Aug 23 2003	Britian	14.08	10.00
Economist Aug 23 2003	Germany	17.61	12.50
Economist Aug 23 2003	Italy	19.72	14.00
Economist Aug 23 2003	Japan	30.99	22.00

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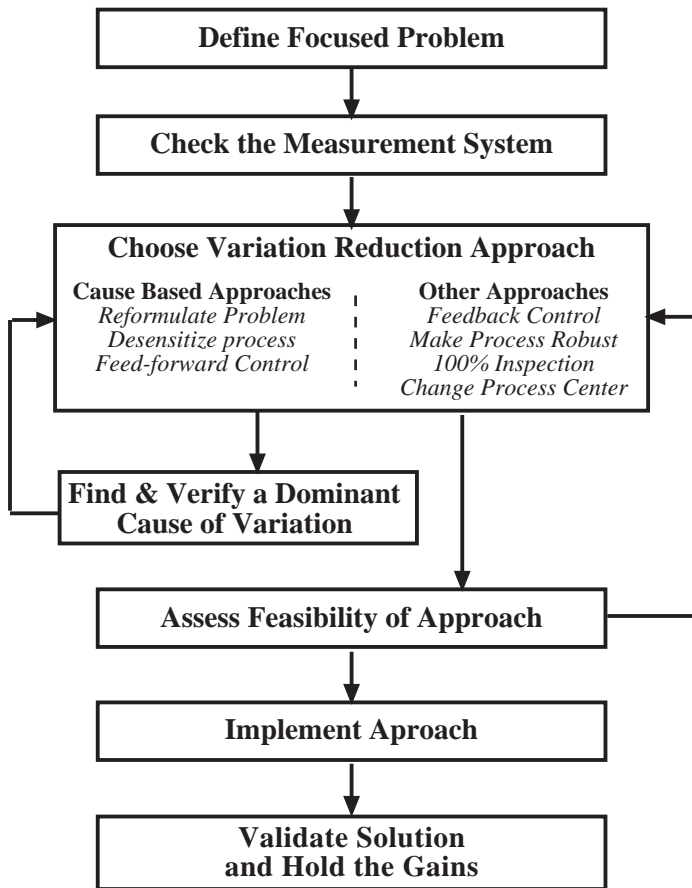


Novator & Co.

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

Statistical Engineering

Statistical Engineering (SE) is an algorithm and a collection of data-based strategies and tools designed to improve the performance of high volume manufacturing processes.



The key step of the algorithm is the appropriate selection and efficient application of one of seven variation reduction approaches:

- **Reformulation:** Re-apply the algorithm to a new problem reformulated in terms of a dominant cause
- **Desensitization:** Change one or more fixed inputs to reduce the sensitivity of the output to changes in a dominant cause.

- **Feed-forward control:** Use an adjustment scheme based on measured values of a dominant cause to anticipate and reduce its impact on the output.
- **Feedback control:** Use an adjustment scheme based on measured values of the output to anticipate and reduce the impact of future changes.
- **100% inspection:** Use an automated inspection scheme to select product with less variation in the output.
- **Robustness:** Change one or more fixed input to reduce the baseline measure of variation
- **Move the process center:** Change one or more fixed input to shift the process center closer to the target

In most applications of SE we recommend searching for a dominant cause of variation. We propose using the method of elimination to identify this cause. We partition all the causes of variation into groups, or families, and then use simple process investigations or available data to rule out all families but one as the home of the dominant cause. Recursively using the method of elimination, we can quickly narrow down the potential dominant causes to a single or a few varying inputs.

SE is widely used in the automotive sector by both OEMs and their suppliers. Because of its algorithmic structure and specialized purpose, it is easy to fit SE into Six Sigma and other Continuous Improvement systems.

For more information

Contact Stefan Steiner, Director - **Institute for Improvement in Quality and Productivity (IIQP)** at the University of Waterloo, (519) 888-4567 x6506, email: shsteine@uwaterloo.ca

Training Course

Come and learn to apply this proven methodology. The **IIQP** offers a 2-day training course on Statistical Engineering at the University of Waterloo. This course will change how you think about process improvement.

Dates (2003,2004): November 20-21, February 4-5, April 14-15, June 16-17

Cost: \$790+GST (10% discount for three or more registrations from the same organization) Course Registration: Go to <http://www.iiqp.uwaterloo.ca/Courses/>

Stefan Steiner
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