

SOCIETY of MANUFACTURING ENGINEERS TORONTO CHAPTER 26



65TH ANNIVERSARY

Web: www.sme-toronto-26.org
E-mail: sme26toronto@yahoo.ca

December 2004
January 2005

TALK: High Feed Machining

Speaker: Brian Philip, Canadian Business Development Manager

Thursday, January 20, 2005 @ 7 pm

Please sign up by Jan. 12

5:30 Social

6:00 Dinner

7:00 Talk

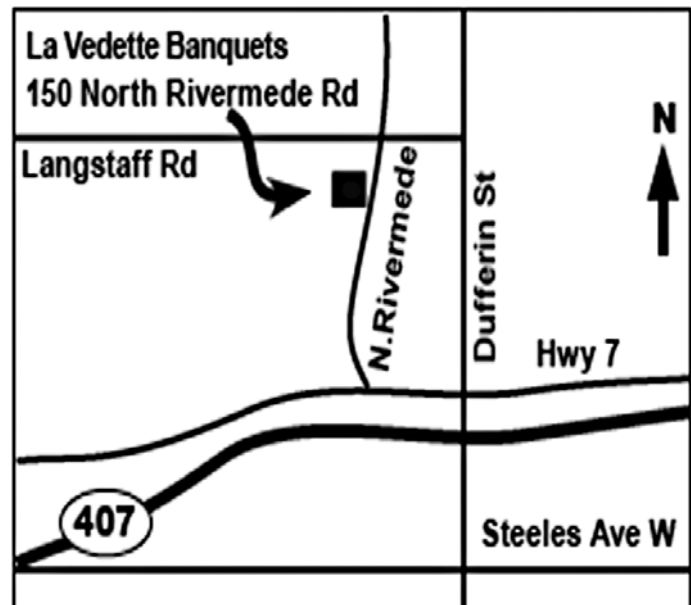
La Vedette Banquets
150 North Rivermede Rd.
Concord, ON
Phone: 905-738-2100

Brian Philip, Canadian Business Development Manager from Sandvik Coromant will be presenting a talk on High Speed Machining.

His background is Marine and Mechanical Engineering. He has been in the field of manufacturing for past 30 years.

During his 18 years of career at Sandvik Coromant, he has had several roles including Sales, Product Specialist, Machine Tool Specialist and the latest being Business Development Manager.

In his past 30 years of engineering experience, he has worked at companies in the field of Automotive, Aerospace and Power Generation.



Directions:

La Vedette Banquette is located west of Dufferin Street and North of Hwy.7 on North Rivermede

Please sign up with Loris Giuricich by Jan. 12.

Contact information for Loris:

Phone: 415-448-2225

Email: Lgiurici@celestica.com

Note: Members include CMTDMF (Canadian Machine Tool, Die & Mold Federation) members

Email us your comments @ sme26toronto@yahoo.ca

Cost for attending the Machine Talk:

* Members - \$35

* Non-Members - \$45

* Student members - \$25

Topics & Schedule 2004-2005

Talk: Press Manufacturing (stamping)

Thursday February 17, 2005 Time: TBA

Tour: Automotive Plant

Thursday March 17, 2005 Time: TBA

Tour: ABB Robotics Thursday April 21, 2005

201 Westcreek Blvd, Brampton @ 7 pm

Tour: Hydroforming

Thursday May 19, 2005 @ 7 pm

Bulletin Copy Deadlines

NOTE: Send material to Parineeta Nayyar at sme_exec@yahoo.ca by the following dates for inclusion in the upcoming Chapter bulletins and website posting:

February 2005 issue: by January 15th, 2005

March issue: by February 15th, 2005

April issue: by March 15th, 2005

May issue: by April 15th, 2005

Upcoming Executive Meetings

MARK YOUR CALENDARS!

EXECUTIVE MEETINGS 2004 6:30 pm start - all the first Wednesday of the month:

LOCATION: George Brown College, Boardroom E244 For additional information on the next meeting phone 416-535-1593, or snguyen_2050@hotmail.com

Jan 5 2005

Mar 2 2005

Feb 2 2005

April 6 2005

Interesting Non-Technical Books for Engineers

I found a web discussion posted by many engineers about what books interest them in their off time. The list of books is quite fascinating to see. Most of the books listed here are not technical books but books of literature. If you are interested in what other engineers like to read when they are not working, then go to the following link.

I have read several of the 100 books listed. Some people in the discussion call it: "The essential engineers reading list"

Website: <http://www.eng-tips.com/viewthread.cfm?qid=37089>

Rick Marme
Secretary,
rmarme@axis-design.org

Canadian Subsidy Directory Now Available

The Canadian Subsidy Directory is now available. This publication contains more than 2600 listings of grants and loans offered by government departments, foundations and associations.

The American Grants and Loans Directory is also available for the United States.

The publication is sold for \$69.95

To obtain a copy please call: 450-224-9275

Website: www.mgpublishing.net/electronic%20or%20hardcopy%20english.htm

Address: N.A.B.R.C.

26 Bellevue St-Anne-des-Lacs Qc,

Canada J0R 1B0 450-224-9275

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, **Farhad Shafiei**, at 905-790-5665, fshafiei@commercialroll.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

Non-members can subscribe

Price: \$2.50 CAD (included in membership fees)
Annual subscription to this Bulletin \$20 (8 issues)
SME Membership \$85 USD available at:
www.sme.org or 1-800-733-4763

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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 www.novator.com

Executives Elected for Year 2005 - 2006

The following executives were nominated and elected for next year:

Chair: Farhad Shafiei

Secretary: Rick Marmeï

Chair Elect: Wen Chen

Treasurer: Paul Ellis

Your Company Flyer Enclosure Special Offer

Chapter 26 is offering companies the opportunity to enclose their company flyer in our monthly Bulletin mailing, either as hard copy or by e-mail. 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 ken.kogej@sympatico.ca

The piece to be included must meet the following criteria:

- 250 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.
- E-mail addresses or links to web sites must be fully check and functional.
- 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.

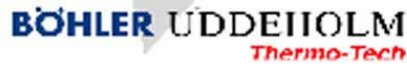
Nanotechnology Lectures—February 15, 2005

"Nanotechnology will impact all areas of activity on the planet in the next 50 years. This series will explore the application of Nanotech to a broad range of fields in engineering, medicine, health care, environment etc. In addition we will address the ethics of this technology."

For further details, please contact **Steve Armstrong @ sarmstrong@amgimanagement.com**

Many Thanks to our **BULLETIN PUBLICATION** and **WEB SITE**

SPONSORS:



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

Superabrasives Grinding Talk—November 18, 2004

Some things change - even grinding

John Manley, Machine Tool Systems Inc. gave a very professional talk which delivered a huge amount of information in a very short time while answering all questions directly and never losing his thread.

Super abrasives offer a huge increase in productivity. The traditional abrasive has been aluminum oxide. Super abrasives are more than twice as hard. Super abrasives are Cubic Boron Nitride for ferrous materials and diamond for non ferrous. These are the hardest materials known. They are bonded to ceramic substrates with vitrified (porous glass) binding agents providing outstanding thermal compatibility.

The benefits of this system compared to the best aluminum oxide are: reduced cycle time (35% to 54%), dressing time and frequency reduced (factor of 40 to 300), grinding tool life increased 100 times, improved quality leading to significant cost saving.

To achieve these benefits requires knowledge and the willingness to experiment and learn. The quality and consistency of incoming parts to be ground is critical. Quality and spindle life require carefully balanced tools regardless of whether they are 1 cm tools rotating at 180,000 rpm or 1 meter tools rotating at 1,800 rpm. CAD/CAM tools which understand the NC system on which the tools are being used, are critical. Controllers must be capable of fast, unloaded movement and very slow and controlled feed while grinding. Coolant should be the same speed as the tool surface so it gets a chance to remove heat. The Costing department has to recognize the reduced cost of the total cycle time so you bid on the right jobs to make all this money.

Thank you John Manley for a very professional talk.

George C. Heintzman
Gheintzman@sympatico.ca

John Manley can be contacted at:

Cell: 416-254-6298

Fax: 416-485-1523

Email: JohnManley@MachineToolSystems.com

Web: www.MachineToolSystems.com

The Joseph R. Benedetto Scholarship

The purpose of SME is to promote excellence in manufacturing and to advance the profession of its sponsors and members. To support SME student members in the field of manufacturing, a scholarship, ***Joseph R. Benedetto Scholarship***, has been established.

Application form is available on the chapter web site @ www.sme-toronto-26.org. Students are invited to apply.