

SOCIETY of MANUFACTURING ENGINEERS

TORONTO CHAPTER 26

SEPTEMBER 2002



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



Talk: Robotic Welding: Fanuc Robotics

Speaker: Mike Sharpe is the Segment Manager for the Material Joining Group
FANUC Robotics

Thursday September 19, 2002

Social (Cash Bar) at 5:45, Dinner 6:15 pm, Talk at 7:15 pm

Giorgio D Ristorante, 4377 Steeles Ave West, Downsview, ON, 416 661-8989

www.giorgiod.com/giorgio/main.html

In today's manufacturing environment, productivity-enhancing technologies such as robotics are key in becoming and remaining competitive. This presentation is for those members who are looking for ways to enhance their current welding processes and understanding of advancements in robotic welding.

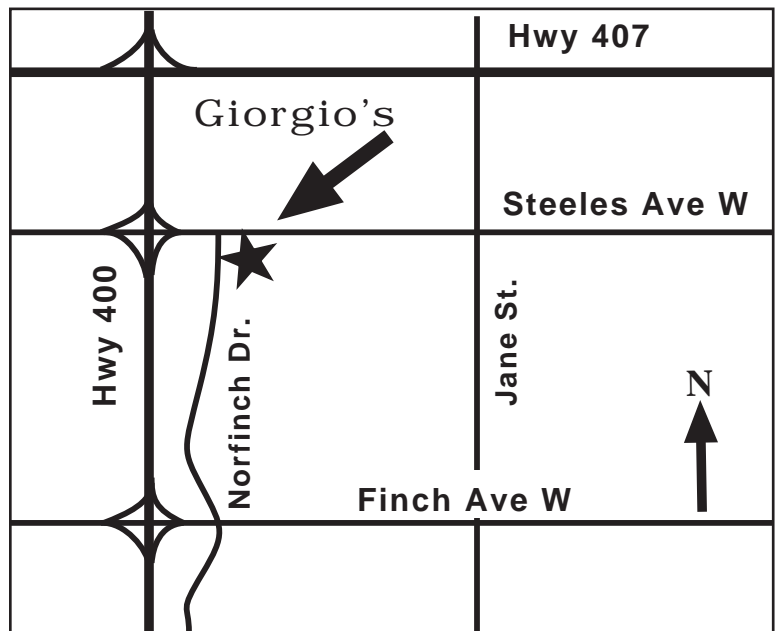
The following areas will be discussed:

- What are the key influencers for Robotic Automation
- Suitable applications
- Adaptive Manufacturing
- Motion Performance
- Tool selection
- Network Communications
- Access to Information
- Production Management Tools
- Insights into new processes

FANUC Robotics is the leading supplier of industrial robots and robotic systems in North America. The company's primary focus is designing, engineering and manufacturing innovative robots and robotic systems and software, controls and vision products that aid in the development of state-of-the-art robotic systems

FANUC Robotics Canada, was formed in 1985 to offer local sales, engineering and service support to the Canadian market. As Canada's robot industry leader with over 5,000 robots installed, FANUC Robotics Canada has successfully developed total automation solutions for a diverse range of manufacturers in a variety of applications, including:

- arc welding
- palletizing
- assembly
- laser cutting
- packaging



- material removal
- spot welding
- load unload
- paint finishing

Mike Sharpe is the Segment Manager for the Material Joining Group of FANUC Robotics. He manages applications and product development for all arc welding and laser applications in North America.

Register today for this event with **Loris Giuricich 416-448-2225, Lgiurici@celestica.com** or **Ken Kogej 416-402-3146, Ken-dante.msn@attcanada.net**

\$30 for members (CMMA & CTMA included), \$35 for non-members and \$20 for students

Mark Your Calendars: THIS SEASON: Topics & Schedule 2002-03

Thursday October 24, 7 pm: "Machine Vision and Inspection System" at R.G. Shelley Ltd (York Mills area). Tour and demonstration

Thursday November 28: TBD

Thursday January 23: TBD

Thursday February 20: 7 pm: "Waste Management from a Manufacturing Viewpoint" at Husty Injection Molding (Bolton). Tour and talk on site.

Thursday March 20: TBD

Thursday April 10: TBD

Wednesday May 14: TBD

Wednesday June 4: TBD

Theme for the Year:

Our goal this year is to provide in the programs we offer both Professional Development and Networking.

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 Sept 15

November Issue: by Oct 14

December/January Issue: by Nov 15

February Issue: by Jan 16

March Issue: by Feb 14

April Issue: by Mar 7

May Issue: by April 11

June Issue: by May 2

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, Ken Kogej, at 416-274-2540 or Ken-dante.msn@attcanada.net 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 Opportunity

Chapter 26 is offering companies the opportunity to enclose their company flyer in our monthly Bulletin mailing. 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. Our mailing list is currently over 400 manufacturing professionals. The current price is \$300 per issue. We reserve the right to change any of the above items without prior notice. For more information please get in touch with Ken Kogej, 416-274-2540 or Ken-dante.msn@attcanada.net

Executive Meetings

EXECUTIVE MEETINGS 2002 6:30 pm start:

Tuesday, September 10, 654 Willard Ave

Tuesday, October 8

Tuesday, November 12

December TBD

Tuesday, January 7

Tuesday, February 11

Tuesday, March 11

Tuesday, April 1

Tuesday, May 6

June TBD

For additional information on the next meeting phone 416-274-2540 or email: Ken-dante.msn@attcanada.net or gheintzman@sympatico.ca

Note: 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.

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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>

Think Carefully Before Doing Business in the Third World

I spent 6 weeks in Armenia in June teaching Inter Cultural Communication. About 3.5 weeks into the course one of the students was sitting arms crossed and uncharacteristically quiet He finally said: "I have a problem. " The government manager for whom I have a contract to install a bunch of computers came to me with a contract signed 28 days ago but announcing that he would need the Facilitating Administrative Payment (What our newspapers call a bribe) to be doubled."

I asked "So what is the problem - is the bribe to big?"

"No" he answered. "There is a clause in the contract that says the equipment must be installed and running within 20 days of the signing of the contract."

"So what did you do?" I asked.

"I had him sign as piece of paper saying that the equipment was installed and running 8 days ago. I went to one side of my office and told them to go and get the money for this installed equipment from the World Bank and went to the other side of my office and asked them to order the equipment."

"So what is the problem?" I asked.

"Well everybody understands what is happening but I have to make sure that the wrong people don't realize how off side we are here."

The highest salary paid to a government employee is \$50US a month. They all rely on "Alternative sources of income".

The wife of the person with whom I was staying is a teacher and her salary in 2002 is \$6US a month.

A friend of mine is trying to sell jet engines in Russia. Their partner had the local governor (War Lord, Mafioso) make them give up their offices to their partner. They loose in court because they are not willing to make the required "Facilitating administrative payments". The partner has stolen intellectual property. They bought him out at great expense and now he has set up a business and is competing against them.

When they have meetings they don't want minutes because they are still afraid of the KGB getting them and finding something bad in them. This means that a great deal of each meeting is spent reviewing and rewriting what has happened.

If an objective can be achieved politically (Bribe) they will not listen to the technical or economic reasons for the business.

There is no effective civil law. Law between people - law for commerce. Think very carefully before jumping into business in the third world. And ignore any lament of Mr. Putin about lack of investment until he is willing to enact and enforce civil law. The same goes for China and Indonesia.

*George Heintzman
Past Chair
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Information and links at: <http://www.sme-toronto-26.org/>

Innovations in Tube & Sheet Hydroforming September 19 - 20, 2002

A two-day educational program

Plus!! A one-day Workshop: Hydroforming Fundamentals Workshop September 18, 2002

Holiday Inn Select Toronto Airport
Toronto, Ontario, Canada

Description:

This program provides you with knowledge and insight into the various methods of tube and sheet hydroforming. Sessions on tooling and equipment, uses of simulation in hydroforming as well as the latest innovations will be presented. This program provides you with a unique opportunity to ask questions of the experts in this technology. By learning the latest industry technology, you prove to your customers that you are committed to advancements and efficiencies, and are competitive in today's changing marketplace.

Benefits of Attending:

- Lower die cost
- Close tolerances
- No part size limitation
- Transferable between presses
- Hydropierces with little or no hole deviation
- 50% expansion in localized areas
- Minimal or even no CNC pre-bending
- Standard hydraulic or mechanical presses

Program at a Glance:

- Hydroforming Tube Formability and Mechanical Properties
- Tube Hydroforming: Misconceptions and Alternative Approaches

- Hydroforming & Bending of Aluminum Tubes and Profiles
- Latest Hydroform Applications Shown on Practical Examples
- Hydroforming of an Offset Gasoline Filler Tube
- Tube Hydroforming with Interstitial-Free (IF) Steel
- Recent Advances in Tube and Sheet Hydroforming Technology - Research & Applications
- Sheet Hydroforming: State of the Art
- Automation for Pre/Post Hydroform Process Lines
- Tribological Effects and Process Impact of Hydroforming Lubricants
- Current and New PVD & CVD Coatings for Hydroforming Applications
- Tube Hydroforming Process Optimization
- Deep Draw Hydroforming Instead of Conventional Deep Draw
- Laser Cutting Hydroformed Parts
- NEW Hydroforming Video

For more information contact Kim Farrugia, ext. 2109 or at farrkim@sme.org.

Take a look at the SME web page:

<http://www.sme.org/cgi-bin/get-train.pl?&&001395&000007&009239&TR&SME>
(Note: This is a horrible URL!! When you type it into your browser address field, make sure there are no spaces and that it appears all on one line. OR: log on to our web site at www.sme-toronto-26.org and go to Programs for 2002-2003. There will be a link on that page. Ed.)

NB: Please -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.