

SOCIETY of MANUFACTURING ENGINEERS

TORONTO CHAPTER 26

OCTOBER 2000



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

The Potential of Mechatronics:*

Rules of the Game: How to make a good idea happen in your industry

Created & presented by Robert Hope (see p.4)

Wednesday October 11, 2000, 6:00 pm

*Ryerson Polytechnical University
Room V201 2nd floor, Rogers Communication Building*

Due to unforeseen circumstances beyond our control, the program originally scheduled for October 11 is unavailable. "The Rules of the Game, originally scheduled for May 9, has been moved to fill the gap. Many thanks to R. Hope for this. The plant tour will be rescheduled.

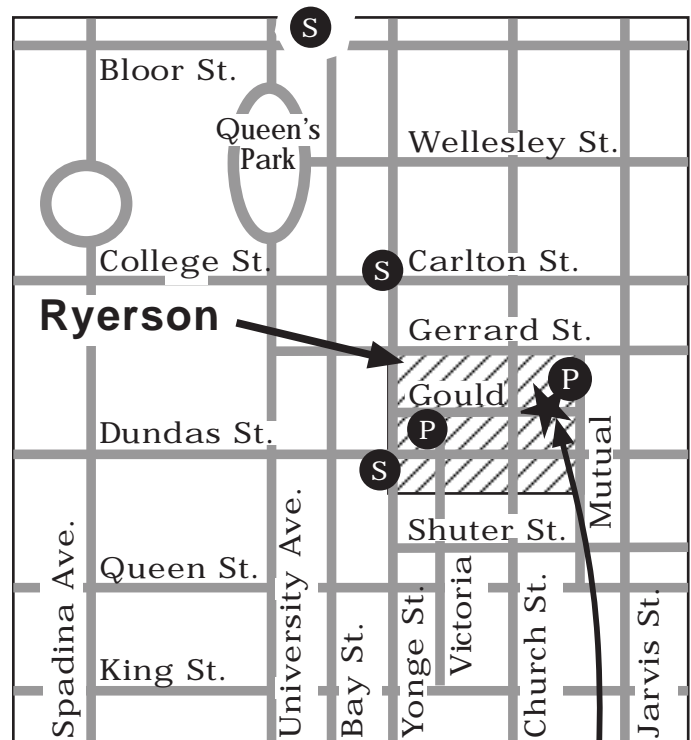
"Rules of the Game: How to make a good idea happen in your industry," created and presented by Robert Hope (see bio page 4).

As a result of this session you will be more effective and less frustrated. More effective because you will understand the importance of focus and how it helps you gather and organize information. Less frustrated because, when you recognize a good idea, you will be able to present it so that it will be implemented!

Engineers are in the frontline of important technology advancement relevant to their business. All ideas go through "justification sieves" within the management hierarchy of their business. Understanding this is key to having your ideas accepted.

This session will help participants understand and learn how to use the business elements which define the "Rules of the Games" of their industry.

It will help you understand what is required to win in your industry. Knowing the components of cost and lead time, and the barriers to change, gives you a focus so that you can recognize and organize and present essential new information. This knowledge allows you to recognize profit potential.



S = Subway stop **P** = Parking Garage

Application Form See page 4.

** Definition page 4.*

The web site, address above, and monthly Bulletins from the Chapter will give details. LOCATION: Room V201, 2nd floor of the Rogers Communication Building, north side of Gould between Church and Mutual Street. There is open air parking south of the building and covered parking as shown on the Ryerson map at www.ryerson.ca/tour/campusmap.html

University of Toronto - New Student Members

Welcome to the new student members at the University of Toronto. Charlene Tung, Mechanical Engineering, 4th year, is heading up the formation of a student chapter at the University of Toronto. We very much hope membership in our organization will be of benefit, and hope to see you at many of the monthly chapter meetings.

We also look forward to hearing your suggestions on what activities you might find useful.

When graduation time rolls around, please don't forget that we post the resumés of student members on our web site if you request it.

Executive Meetings

Upcoming Schedule 2000: all Wednesdays at 6:30 pm
October 18
November 8
December 13

At:
AFV Multimedia
233 Evans Avenue
Phone: 416-239-2811

Interested parties are welcome and encouraged to join executive members at executive meetings. For additional information on next meeting phone 416-467-8298 or e-mail: heintzg@attglobal.net or Ken-Dante@msn.com.

Upcoming Schedule 2001: PLEASE NOTE: All Executive meetings are Thursdays at 6:30 pm
January 4
February 1
March 1
April 5
May 3

Sign Up Now!

NOTE: Bulletin copy deadline:
November (next) Issue October 10!!

For information on books and links related to Mechatronics please see our Web site <http://www.sme-toronto-26.org/>

If you need more information about this series, please call Pierre Perron at 416-944-9264 or email to pierre_perron@yahoo.com. Please do not phone after 10 pm EDT.

Mechatronics Topics & Schedule

2. Wednesday October 11. Applications Examples - Costs, Business Case, Justification, Management Concerns. Robert Hope, R. B. Hope Industrial Ltd.
3. Wednesday November 1. Design - CAD / CAM / CAE, simulation and visualization.
4. Wednesday December 6 Sensors What can be Measured, Sources of Error, Accuracy. Jim Pierson, Pierson & Associates.
5. Wednesday January 17. Plant Tour: Robotics, Acea Robots: Analysis of a robot as a Mechatronics device and building block.
6. Wednesday, February 7 Plant Tour: Motion Devices Festo Motion devices - Motors, Pistons, Actuators, and Solenoids. Chris Kalemba
7. Wednesday, March 7. Control Systems Control Systems - Controllers, Computers and Networking.
8. Wednesday, April 4. Implementation Team Work, Project Management, Goal Setting. Pierre Perron, Team building and project planning implementation Consultant.
9. Wednesday, May 9. TBA
10. Wednesday, June 6. Summary - Panel Discussion: The Future.

To Apply:

To apply, fill out the Application Form, p 4, and mail to: Pierre Perron, 80 St. Clair Ave. E, Apt 1706, Toronto, Ont., M4T 1N6, with your cheque. More information at the SME website at <http://www.sme-toronto-26.org/>

Location and Times

The course will be held in Room V201, 2nd floor of the Rogers Communication Building Ryerson University in downtown Toronto. A light supper will be offered at 6:00 pm and the session will start at 7:00 pm. We will usually finish by 10:00 pm. Of course plant tours will have different timing.

Cost

The price includes a light supper, course binder, and whatever printed material is supplied by the speakers.

\$450 for SME members, \$550 for nonmember (includes SME membership). Student members*: nominal cost of \$95 for the entire course. Prorated for late signups.

* Membership enquiries please phone 416-402-3146.

EXECUTIVE LIST

Office	Name	Company	Phone	E-mail
Chair	George C. Heintzman	Systems Consultant	416-467-8298	heintzg@attglobal.net
Chair Elect	Ken Kogej	Houghton Canada Inc.	416-402-3146	Ken-Dante@msn.com
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Bulletin & Web Editor	Jenny Ono Suttaby	Jentek Company	416-761-1810	jono@jentekcompany.com
Host Web Site	Prof. Mark S. Fox	Novator Inc.	416-978-6823	msf@novator.com
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Planning	Paul Walters	RideauTEK	905 839 7373	pawalters@sprint.ca

Sign Up Now!

The First Meeting of the Mechatronics 2000 Series:

(See our Web page for complete presentations given at the first session <http://www.sme-toronto-26.org/>)

Many new acquaintances were made during the registration and supper.

The meeting was opened by the George C. Heintzman Chair of Chapter 26. He covered what mechatronics is, its importance, some key examples such as Pirelli, and the impact of Mechatronics on key decisions such as organization and the market place. The Talking Stick was passed and everyone invited to tell who they are, why they came, and what they expected to get out of the course. Those who had specific projects they would like to discuss were invited to share that with the group.

A model of the impact of advances in electronics and computers was presented and a discussion of the impact on decisions. The model shows that if costs fall faster in one area than another then that area will play a more important role but at less cost; this decreases the cost of the whole

In session case study: A model of a lathe was passed and members of the class were invited to imagine how

Mechatronics could impact the lathe. The member reaction will be covered in next months bulletin.

Mechatronics needs a customer oriented application in order to pay for it, an economic driver. Dr. Joe Pine in his book "Mass Customization" takes such a customer oriented view of highly flexible manufacturing systems. He comes to some startling conclusions such as the idea that all departments will have equal importance and will all have to be much faster. For example costing may not be emphasized in a traditional plant but in a plant where everything is one off it is important to be sure you make money on everything that goes out the door.

Next month Robert Hope will continue by showing the elements of a successful business plan for the implementation of Mechatronics systems. A key element is "What does the customer get out of the system which will pay for all the technology."

George Heintzman
heintzg@attglobal.net

Many Thanks to our BULLETIN PUBLICATION and WEB SITE SPONSORS:



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



ROBERT HOPE, R. B. HOPE INDUSTRIAL LTD. Speaker: October 11, 2000

Robert Hope has been a member of the Toronto SME for over 20 years. Throughout his career he has worked both sides of the "Corporate approval" street.

With a 30-year background devoted to light manufacturing, Robert has requested approval as technical director, engineering manager, research director, and as a private entrepreneur of a successful start-up automotive parts manufacturing company.

On the other hand, Robert has authorized corporate approval as

President of 2 Canadian and one US Corporation. He has also provided approval in the role of "Manager - Automated manufacturing systems" for a worldwide Corporation.

Robert currently operates his own company in Toronto, developing product and process design for both transportation and construction industries. He holds a variety of worldwide patents, the most recent being 3 US Patents issued last year.

Sign Up Now!

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Detach the form below and send with cheque or money order made out to
SME Toronto Chapter 26 Mechatronics, to:
Pierre Perron, 80 St. Clair Avenue East, Apt 1706, Toronto,
Ontario, M4T 1N6

* Membership enquiries please phone 416-402-3146.

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mechatronics, n.pl. (treated as sing.) technology combining electronics and mechanical engineering, esp. in developing new manufacturing techniques. [blend of mechanics + electronics]. Canadian Oxford Dictionary, 1998.

See links to Mechatronics sites on the web page, <http://www.sme-toronto-26.org/>



REGISTRATION FORM - MECHATRONICS SERIES 2000-2001

Please keep a copy for your records. Please photocopy for additional registrations.

DATE: _____

NAME: _____

TITLE: _____

COMPANY: _____

ADDRESS: _____

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PHONE, HOME: _____ OFFICE: _____

FAX: _____ E-MAIL: _____

SME Member \$450* Non-member \$550* ** Student Members \$95 Amount Enclosed: \$ _____

*Fee is prorated for late signups - for example, remaining nine sessions: members \$410, Non members \$510, Students \$90. The price for guests for one evening is 65\$.

Detach and send with cheque or money order made out to SME Toronto Chapter 26 Mechatronics, to:
Pierre Perron, 80 St. Clair Avenue East, Apt 1706, Toronto, Ontario, M4T 1N6

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