

SOCIETY of MANUFACTURING ENGINEERS

TORONTO CHAPTER 26

DECEMBER 2002 - JANUARY 2003



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



Tour: Commercial Roll-Formed Products

Thursday January 23, 2003

Tour at 7:00 pm

225 Parkhurst Square, Brampton, Ontario, 905-790-5665

www.commercialroll.com

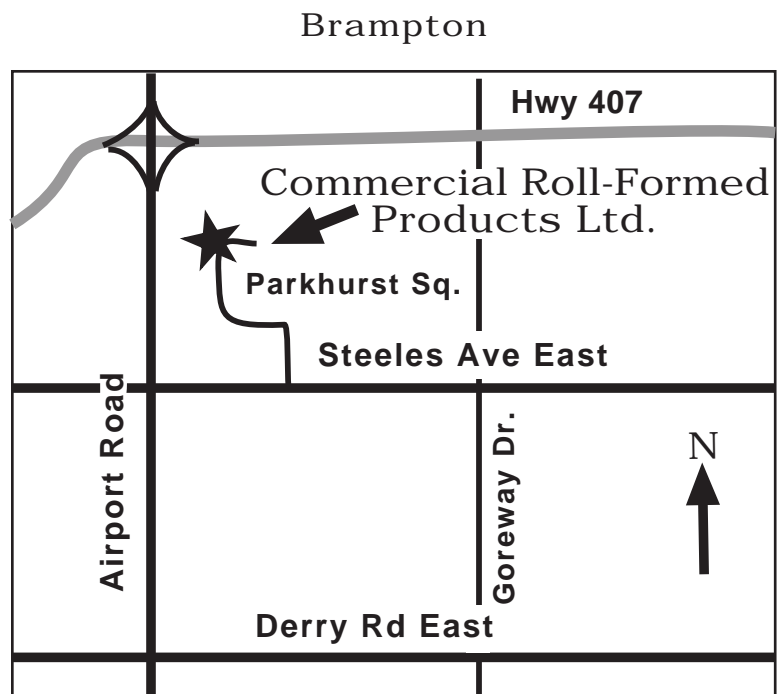
Commercial Roll-Formed Products, is, as the name suggests, a third party supplier of custom roll-formed products to a diverse group of clients throughout North America.

Commercial Roll-Formed Products also manufactures its own line of commercial/industrial cable management systems, marketed under the names Comstrut, Conduflor and Comtray. The company's ability to serve comes from a unique combination of talented personnel following high commercial standards and clear leadership, working with both state-of-the-art and well-proven equipment.

This new ISO 9001 certified facility houses 22 roll forming lines. The highest levels of commitment and use of Visual Manufacturing enterprise management systems enable us to produce profitably on time, time after time.

CRFP's thirty-year history is one of growth through continuous attraction of customers recommended by those already being served. Its output, range of profiles and number of lines make it the largest third party roll-form supplier in Canada.

The visit will cover virtually all aspects of CRFP's operations, including customer relationship management, design, production management systems, quality systems, equipment, types of clients and products produced.



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

\$10 for members (CMMA & CTMA included), \$20 for non-members, student members \$5.

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

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

Thursday March 20: Oshawa Truck Assembly Plant, at 6:00 pm. This plant makes the full size Chevrolet, Silverado, & GMC Sierra. The plant is 3.1 million sq. ft. with over 3,400 employees.

Thursday April 10: TBD

Wednesday May 14: TBD

Wednesday June 4: TBD

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:

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

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, January 7 at 654 Willard Avenue.

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

Companies at our last meeting:

You might be interested to know that at our last meeting (topic: Six Sigma) there were people from the following companies: Booz Engineering, Messier-Dowty, Pacifex, Woodbine Tool Centre for Advanced Coating, Royal Mould Tec., Irwin Seating, Innovative Cooling Dynamics, Fuchs Lubricants, L & M Precision Products, University of Toronto, George Brown College.

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.

Telephone Committee

We are looking for volunteers to form a telephone committee. This would involve spending maybe half an hour a week doing a little member relations building and "taking the pulse" of our membership by telephone. The goal is to poll our members as to the kind of program that would be useful to them professionally and to promote Chapter activities to our members. Any takers? Please phone Ken Kogej, 416-274-2540 or email Ken-dante.msn@attcanada.net

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

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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>

Beach Laundromat Balances Solar & Traditional Technology To Beat Kyoto Emissions Targets

A forty year old Laundromat in the Beach neighbourhood recently changed hands and has undergone a cosmetic and mechanical renovation. The mechanical renovation saw three separate water heating systems integrated into one, augmented with solar panels on the roof.

Before the renovation, an oil-fired boiler, dating from the construction of the building, heated water for the radiator system. With no recirculating pump, the second floor apartment was cold in winter, while the first floor was too hot. A 6.0 kW electric water heater provided hot water for the apartment. A 460,000 Btu/hr natural gas commercial boiler heated water for the Laundromat. The first remedy was to replace the oil-fired boiler with a heat exchanger drawing energy from the natural gas burner. A recirculating pump was put into the radiator heating system to efficiently distribute the heat throughout the building. The brick chimney was removed and the now empty chimney space was used as a conduit for solar heating fluid pipes. Next, the electric water heater was removed and the hot water needs of the apartment above were drawn from the natural gas boiler. Finally, eight solar panels were installed on the roof with the circulator, air purger, pressure-temperature gauges and fill-drain assembly installed in the mechanical room in the basement.

The 250 square feet of solar heating panels are expected to deliver 20,000 kWhrs annually and reduce CO2 emissions by 16,000 kg annually. Between the elimination of the oil

boiler and the capture of solar energy, the Laundromat expects to be able to exceed the Kyoto Protocol emissions targets.

The solar heating panels are elegantly simple, consisting of copper plates with integral pipes for heating propylene glycol. They are glazed with high transmissivity glass. Manufactured by Solcan Ltd. of London, Ontario, the panels operate at approximately 60% efficiency. This compares favourably with photovoltaic solar panels which operate only at approximately 15% efficiency (recently endorsed with tax incentives by the Ontario Government). Price also favours solar heating panels with an installed cost of approximately 25% of photovoltaics for a given panel area. Nationalism also favours the solar heating panels as they are made in Canada, compared to photovoltaics which are made nowhere in Canada, the three largest PV manufacturers in fact being owned by oil companies.

The panels are expected to pay back their investment in ten years if energy prices remain stable, and will achieve payback faster if energy prices rise. This ten year payback is equivalent to an annuity with a 10% return on investment.

The Beach Solar Laundromat, located at 2240 Queen Street East, Toronto, will host an open house from 10 am - 3 pm on December 21st, 2002. System engineers and installers will be on hand to answer questions. Please come if you are interested in learning more about this set up.

Many Thanks to our BULLETIN PUBLICATION and WEB SITE SPONSORS:



A & M HEAT TREATING LTD.



Novator & Co.

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High Precision Machining

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

Six Sigma presentation, 28 November 2002

Many of us do not understand or misunderstand six sigma. The whole idea with six sigma is to position yourself to please the customer and make money. To do this each part of the company must do their job: The workers provide the output or production; Management makes sure the proven procedures are followed and continuously improved; And top management provide the vision and the work that can be produced within tolerance so there are less than 3 bad parts per million.

One of the tools used by management is a contribution diagram showing the contribution of the 5 M's and the E; Material, Machines, Methods, Men, Measurement, and Environment. Andrew Millivojevich made the point that often management overlooks the measurement system by telling the story of a saw mill that didn't meet production targets because the sensor continually was covered in sawdust causing the line to shut down. Andrew also pointed out the importance of a well documented process so that it can be measured and followed.

The improvement follows a cycle. First you must know all your variations from nominal. Then you hypothesize where you can improve. Then you try it and collect new data to see if you met the new target. Then you start over.

Andrew made the point that the executive must provide a good vision and good projects. If they take orders for parts that cannot be made with in tolerance they must also provide the resources to improve so the tolerance can be met. This may include training or new equipment or any of the 5 M's and an E mentioned above. One area that too often gets overlooked is redesign. It is vital to keep the objective for the parts in mind so that the tolerances can be reasonable. Know the variation of your process and design for it. Thank you Andrew - very informative.

*George Heintzman, Past Chair
gheintzman@sympatico.ca*

SME Chapter 26 Slate of Officers for 2003

The nominated slate of officers for the coming year is as follows:

Chair: Amalesh Chakraborty

Chair Elect: Son Nguyen

Secretary: Rick Marme

Assistant Secretary: Paul Ellis

Treasurer: Wen Chen

Programs: Ken Kogej, Chair, assisted by Loris Giurich, tours, Robert Hope and Farad Shafiei

Bulletin & web site: Jenny Ono Suttaby assisted by Adam Poon

Education: George Heintzman and Robert hope

Sponsorship: Bruce Keeling, Joe Benedetto, Son Nguyen

SME Study Tour

A Study Tour is a group of SME members spending a day together learning from each other and providing the host factory a set of our best recommendations.

What's in it for the member? The member gets to work with a group of his peers and learn how they work and their best ideas.

What's in it for the host factory? The host defines an area (scope) and a set of objectives for the area. He provides guides to provide access to the area to be studied. His guides get to work on the team with other peers for a day. The host factory management get our best ideas to accomplish his defined objectives.

Example objectives Cut lead time in half. Cut inventory in half. Improve material handling. Reduce mistakes due to changes. Simplify procedures. Reduce cost. Preparation for implementation of logistics system. Implement continuous improvement

We want you. If you would like to participate in a study tour or your factory would like to host one please contact George Heintzman at 416-467-8298 or gheintzman@sympatico.ca

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.