

In This Issue[April 2011 Meeting](#)[New STLE
Membership Drive](#)[2011 STLE Annual
Meeting](#)[Basic Handbook of
Lubrication](#)[Darlington Tour
Highlight](#)[STLE Toronto Golf
Day](#)[Ryerson University](#)[Toronto Section
Board](#)[Join Our Mailing List!](#)**Meeting Fees**

STLE Members - \$45
 Non-Members - \$55
 Students - \$20
 Retirees, transition
 members - \$25
 (Includes meal,
 refreshments & talk.
 Subject to change without
 notice and add \$5 if not
 pre-registered)

Section Sponsors

STLE Toronto Section

April 2011 Newsletter

**Tuesday, April 12, 2011**

The Old Mill
 21 The Old Mill, Toronto, Ontario
 (Click [HERE](#) for directions)

5:30 - 6:00 pm Hospitality
 6:00 - 7:15 pm Dinner
 7:15 Technical Presentation

The Key to Successful Production Trials for Stamping Compounds: A New Analytical Method for Pretrial Screening with the Twist Compression Test

Presenter: Gregory Dalton, P.Eng, PhD Candidate, President, TribSys Inc., Sudbury, Ontario

Summary: One of the most challenging issues in metal stamping and other industrial applications is the quest for safe and effective anti-galling lubricant formulations. It is difficult to predict whether a lubricant formulation will be effective for a specific application. The Twist Compression Test developed by the late Prof John Schey is widely used to predict galling. This allows lubricant formulators to determine optimal additive levels and to screen candidate formulations prior to production trials. One drawback of this test and other similar tribotests is that they use friction level as an indicator of lubricant failure. Interpretation of the friction curves to determine the point of failure can be subjective and, as a consequence, prone to biased judgments. The author has completed an analysis of tribotest analysis of various lubricant formulations to understand how to reduce bias in the detection of lubricant failure and to improve sensitivity of the Twist Compression Test as a lubricant formulation pretrial screening tool.

Bio: Gregory Dalton completed a Masters Degree in Mechanical Engineering with Prof. Schey at the University of Waterloo in 1990. His focus at that time was improving the sensitivity of the Drawbead Test for evaluating lubricants on zinc-coated automotive sheet. After graduating he worked in manufacturing automotive heat exchangers and had success in reducing scrap rates by optimizing lubricant additive levels. In 1996 Greg founded the Metalforming Research Group at IRDI in Midland, ON where he lead the studies in high strength steel sheet formability, hydroforming lubricant development, and dry film lubricants for aluminum. In 2000 he started TribSys Inc in Sudbury, ON and



soon after partnered with Ted McClure to form TribSys LLC in Valparaiso, IN. In addition to his role at TribSys, Greg is completing his PhD and teaching part-time at Laurentian University in Sudbury where he resides with his family.

STLE members and guests register with Ed Milanczak at emilan@cogeco.ca

Also, please pass this along to others in your company or to colleagues.



New STLE Membership Drive

From start of business day on April 1, 2011 until end of business day on September 1, 2011, any member who sponsors a new STLE member will be entered to win an iPad2 from STLE. Not only that, the current member will also be eligible for other incentives offered by STLE throughout the length of the program. But let's also not forget those new members; any newly sponsored member who joins STLE will be entered into a drawing to win an iPod from STLE!

Now is the time to share your STLE experience, including all the ways the Society has supported you in your career and professional development. You may have joined because...

- You gained contacts, both in lifelong friendships and business relationships
- You had an unforgettable experience at a local section meeting, conference or other event
- You had the opportunity to expand your knowledge base by attending an education course, which helped you in your daily work and advance in your career
- You may have received one of STLE's certifications, making you recognized in your field and within your company as an expert



For these reasons and many more, you will find the answer to the why question: why did you join, and why did you stay involved in STLE? After you have the answer, you may know of others in the industry that may benefit from joining STLE. With the Member-Get-A-Member Campaign, this is your opportunity to share STLE with them, and provide the chance for these new members to have those experiences for themselves.

What would you say to someone who was thinking about joining? How would you convince them to join? You can use your personal experience to give them some insight into what STLE is and what it can do for them.

We have the tools for you to go forth and spread the STLE message. It's very easy. First, you can



start with your Member Story - tell them how you joined and why you stayed. If they want more, you can use the materials we've put together to guide your discussion.

As an added bonus, the Member-Get-A-Member Campaign is set up to reward you for your participation. This campaign is meant to encourage, but also reward you as a current STLE member for supporting someone in becoming a STLE member with this program.

[\[Click here\]](#) for all program details and incentives.

2011 Annual Meeting & Exhibition



STLE education: Great training and an even better value

One of the best ways to combine industry-specific training with value is by taking an education course at STLE's 2011 Annual Meeting & Exhibition. The five-day event is May 15-19 at the Hilton Atlanta in Atlanta, Georgia (USA).

This year's list of education courses is particularly strong and includes:

- [Advanced Lubrication 301](#)
- [Basic Lubrication 101](#): Fundamentals of Lubrication
- [Basic Lubrication 102](#): Components and Applications
- [Biofuels and Lubricants](#) (new course)
- [Condition Monitoring 150](#): An Overview
- [Grease Basics 101](#) (presented in cooperation with NLGI)
- [Hydraulics](#): Basic Fluids and Applications
- [Metalworking Hot Topics](#): (new course)
- [Synthetic Fluids 203](#): Non-petroleum Fluids and Their Uses
- [Synthetic Fluids 204](#): Fluid Formulation and Applications



Education courses offered at STLE are excellent preparation for anyone taking the society's Certified Lubrication Specialist®, Oil Monitoring Analyst® (I & II) and Certified MWF Specialist® exams. Taking a course also fulfills one of the prerequisites for CLS® re certification. All four exams are being offered at the Atlanta annual meeting.



Important Deadlines: Register by April 15, the Early Bird Deadline, and save \$85 on your conference registration fee. The Hilton Atlanta is offering a reduced room rate for those who register by April 15. However, there are a limited number of rooms at the Hilton which are assigned on a first-come, first-served basis. Hotel reservations are filling up quick. Reserve your rooms today to assure your stay at the Hilton Atlanta.

[\[Click here\]](#) to register for STLE 2011



[\[Click here\]](#) to make your hotel reservation

Basic Handbook of Lubrication (3rd Edition) now available from STLE

The third edition of the Basic handbook of Lubrication, published by the Society of Tribologists and Lubrication Engineers, is now available. The follow-up to the out-of-publication second edition sells for \$125 to STLE members and \$159 to others.

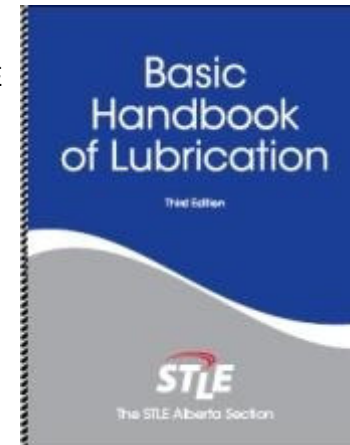
Compiled and edited by STLE's Alberta Section, the 360-page handbook covers some 30 lubrication topics with contributions from 25 authors. The technical material is oriented to both lubrication-industry newcomers and veterans.

The comprehensive reference also is recommended study material for two of STLE's certifications: Certified Lubrication Specialist and Oil Monitoring Analyst (I&II).

The Basic Handbook of Lubrication is available only through STLE. The fastest way to order is online at www.stle.org. Or call 847-825-5536. STLE is offering the book in spiral-bound and perfect bound formats for the same price.

Chapter titles include:

- Oil viscosity & selecting correct grade depending on temperature
- Mineral base oils
- Synthetic base oils and finished lubricants
- Used oil re-refining to create base oils
- Additives used in formulating lubricants
- New lubricants - analysis & testing
- Bearing lubrication
- Engine oils
- (Stationary) natural gas engine lubrication
- Enclosed gear oils: Classifications and additives
- Hydraulics fluids & related properties
- Hydraulic system components
- Hydraulic system components: sample calculation
- Hydraulic system components: sample calculation appendix
- Air compressor lubrication
- Reciprocating natural gas compressor lubrication
- Lubrication of electric motor bearings
- Turbine oils



- Refrigeration system lubrication
- Grease, an introduction
- Solid film lubricants
- Metalworking & preservative fluids
- Environmentally friendly lubricants
- Solvents & cleaners
- Aftermarket additives
- Centralized lubrication systems
- Pneumatics
- Filtration
- Introduction to seals
- Wear types
- Degradation and analysis of oils in service
- Condition monitoring & industrial machinery
- Effective bearing failure analysis
- A guide to purchasing lubricants
- Storage of new lubricants (health, safety and environmental considerations)
- Used oil collection
- Glossary of Lubrication terms

March 8 Darlington NGS Tour Highlight

We had a very successful tour and hope to do it again.
Our numbers were limited but the following attended;

Amy Nimens, Petro-Canada Lubricants Inc.
Harald Louis, Petro-Canada Lubricants Inc.
William Ridley, Petro-Canada Lubricants Inc.
Tony Stranges, Petro-Canada Lubricants Inc.
Lawrence Curts, Petro-Canada Lubricants Inc.
Andrew Maderak, Forsythe Lubrication Associates
Steve Gahbauer, Canadian Plant Magazine
Ed Milanczak, Cogeco
Reginald Castellino, Brichem Sales Ltd.
Behshad Sabah, H.L Blachford Ltd.
Jianjun Wei, Chemtura Canada Co./Cie
Paul Sampson, Lubrizol Canada
Frederick Manuge, Brenntag Canada Inc.
Richard Hathway, Lubricon Industries Canada Ltd.
Tyler Hathway, Lubricon Industries Canada Ltd.
Yen Garcia Gonzalez, Mohawk College



Lou DiFlavio, Chemtura Canada Co./Cie
Xin Mo, Kinectrics Inc.
Xiaowang Li, Kinectrics Inc.

We also had Wayne Mackwood, Ted Austin and Ken Brown attending the lunch time presentations.

Our many thanks to George Staniewski for helping with the arrangements and for giving the very good lunch time presentations.

Our thanks also to the tour guides; Delio Duque, Dino Spina and Malcolm Towrie. In addition thanks to Section Manager, Rob Uraisami, who welcomed everybody at the morning at DND Info Centre and introduced the Components and Equipment Manager, Glenn Round, at lunch time.

If you have suggestions for other tours please let us know.

STLE Toronto Section Golf Day

Golfers, hackers and other, we need your help!

The Toronto Section Golf Committee are doing due diligence by playing as many prospective courses as they can before picking one for us. Their efforts are to be commended. To help them in the decision making process can you please answer the following questions and send to either taustin@forsythe.on.ca or emilan@cogeco.ca.

For a few years it has been held in early June at the Brae Ben Golf Course in Mississauga but it can change. This is also a links style course.

1. Any specific recommendations for a golf course?
2. Do you prefer one in the GTA or within about 40 km?
3. Do you prefer one East, North or West of Toronto up to about 80 km?
4. Do you prefer an above average challenging course that is more expensive or will anyone do?
5. Do you prefer a sit-down table or buffet style meal with prizes or something simple outdoors like a barbeque?
6. Do you prefer late May, early June, late June, early July, late July or early Aug?
7. Do you prefer an early morning or mid day start?
8. If you are a golfer but did not attend in the past is there any specific reason?
9. Other?

Or [CLICK HERE](#) for the online submission form

We look forward to another great year with the Toronto Section of STLE. If you have any suggestions or would like to see anything specific in our monthly newsletters, please don't hesitate to contact Ken Brown, Eco Fluid Center Ltd, at 416-466-3144 or via email at kenbrown@fluidcenter.com.

Sincerely,

STLE - Toronto Section

