



The Society of Tribologists and Lubrication Engineers —

Who are we?

Why become a member?



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What is Tribology?

Tribology: From the Greek word “Tribos” to rub, tribology is the science and technology of interacting surfaces; hence a study of friction, wear, and lubrication.



What is Lubrication Engineering?

Lubrication Engineering uses tribological principles to address the need for friction and wear reduction or control in a variety of industries or applications.



Mission Statement

“To advance the science of tribology
and the practice of lubrication
engineering in order to foster
innovation, improve the performance of
equipment and products, conserve
resources and protect the
environment.”



Effect of Friction & Wear



Friction and wear losses cost consumers over
\$200 billion in the USA alone



Effect of Friction & Wear



Approximately one-third of all device-produced energy is lost through friction and wear.



Effect of Friction & Wear



Friction and wear losses affect product life, reliability, safety and the environment.



Tribology & Lubrication Engineering Encompass Many Sciences

- * Mechanical Engineering
- * Chemical Engineering
- * Chemistry
- * Metallurgy
- * Material Science
- * Physics
- * Applied Mathematics
- * Applied Mechanics



Applicable to Nearly Every Industry

- * Agriculture
- * Oil & Gas
- * Steel
- * Food Processing
- * Pulp and Paper
- * Construction
- * Power Generation
- * Aerospace
- * Transportation
- * Medical
- * Computer
- * Chemical
- * Fuels
- * Automotive

Key Areas For Research

- * Nanotribology
- * Biomaterials
- * Tribological coatings and surfaces
- * Other?



Benefits of STLE Membership?



A diverse community with a common interest in tribological systems

- Manufacturers and marketers of products, equipment and services
- Users of equipment, products, services
- Researchers and educators
- Students



STLE Today



- Community of over 13,000 technical professionals
- 200 corporate members
- 70 countries
- 25 active sections, incl. TO, Hamilton, Calgary
- HQ in Chicago, Illinois
- \$2.5 million/year budget



Why join STLE?

- STLE provides access to cutting edge research via technical papers and presentations in our publications and at a variety of scientific meetings.
- You gain the knowledge needed to reduce costs and improve efficiency at your company or organization.
- Membership is an invaluable resource for those working in industry as well as those in research or academia. It enables you to increase your career options via networking and improve your earning potential by learning more about tribology and lubrication and related areas.



Student Membership

- Student members get a much reduced membership fee. It currently costs only \$17 (US) while it is \$140 for regular membership
- Student members can attend the five day STLE Annual Meeting for \$30! Cost for regular STLE members is \$595 and \$865 for non-members. With over 1500 attendees, it is an excellent opportunity to hear the latest and to scout jobs.
- Student members get a reduced price for the Toronto section dinner meetings (\$25) and education courses.
- Job wanted notices sent to our mailings lists



Social & Digital Media Tools

- * **Website:** www.torontostle.com
- * **Facebook (“Toronto STLE”) and LinkedIn**
- * **Podcasts**
<http://theofficialstleblog.blogspot.com>





Upcoming Events – Toronto Section

- Jan 12th, 2016 – Dinner Meeting (Old Mill)
 - Talk by Jeff Marois of Tube-Mac Piping on hydraulic system troubleshooting & system design
 - Feb 9th, 2016 – Dinner Meeting (Old Mill)
 - Talk by Greg Livingstone of Fluitec International on Fluid Degradation and Clean-up
- Be sure to check our website for all future events



STLE Annual Meeting
May 15-19, 2016
**Bally's Las Vegas Hotel &
Casino**



Thanks for listening!

Please grab a Membership Benefits brochure and register online!

www.stle.org

