

**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.

STLE membership supports and expands your professional abilities through:

Education: Top-rated and affordable courses are offered live at the annual meeting and a variety of locations or through the new members only LubeLearn on-line education program.

Certification: Earn recognition and valuable credentials through three STLE-sponsored programs: [Certified Lubrication Specialist \(CLS\)](#), [Certified Metalworking Fluids Specialist \(CMFS\)](#) and [Oil Monitoring Analyst \(OMA\)](#).

Professional Networking: Offered at two major international conferences, local section meetings or one of 23 technical committees and industry councils.

Upcoming Meetings
 <p>STLE CALGARY • MAY 7-11, 2006</p>
<p>2006 STLE Annual Meeting & Exhibition: May 7-11 in Calgary, Alberta, Canada</p>

April 2006**WELCOME**

[Annual Meeting deadline recap](#)
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[Congratulations to the 2006 STLE Vic Joll Award Recipient, announced below.](#)
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[Newly released Metalworking Fluids book, 2nd Edition](#)
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Annual Meeting deadlines

We are looking forward to seeing you at the STLE meeting!

[Click here to register for the meetings, courses and tours.](#)

[Click here to make hotel reservations online.](#)

or print form here: http://www.stle.org/annual_meeting/pdf/2006_Hotel%20Reg.pdf

April 3 – Deadline for corporate member registrations to be received in the STLE office for the free education courses.

April 12 - To guarantee convention room prices all requests for hotel reservations must be received prior to this deadline. Also, all hotel room reservations must be cancelled prior to this to avoid a \$25 USD cancellation fee.

April 14 - Annual Meeting or Education Course registrations received after this will be charged a \$50 surcharge.

April 14 – Deadline for cancellation requests to be in writing in the headquarters office to receive a refund less \$50 handling fee. No refunds will be issued after this date.

April 28 - Deadline for online hotel reservations and modifications.

May 7-11 - The 61st STLE Annual Meeting and Exhibition in Calgary, AB.

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Hotel reservations:

Depending on the dates of your stay, a limited number of rooms are available at the Marriott and Hyatt. The Fairmont Palliser Hotel has a full inventory of rooms throughout the STLE meeting dates.

If you are not able to complete the reservations through the automated online reservation form, we encourage you to print the form http://www.stle.org/annual_meeting/pdf/2006_Hotel%20Reg.pdf and fax it to 403-262-3809. The housing bureau staff will work with you to try to place you in an STLE block hotel at the special conference rates for the dates you prefer.

Use the following links for help on your request for funding to attend, whatever your professional focus is:

· [Back to Basics](#)



[Oct. 23-25, 2006](#)
[Hyatt Regency San Antonio](#)
[San Antonio, Texas](#)

E-mail your comments to
Information@stle.org

- [Gear up for Success](#)
- [Grease is the Word](#)
- [Hydraulics Program Powers Up](#)
- [Nothing Artificial About Synthetic Lubes](#)
- [No Bugs in Metalworking Fluids](#)
- [Get your Bearings](#)
- [University Students can learn and network](#)

Whatever you are interested in, we have it planned for the meeting in Calgary!!

There are only 3 exhibit booths left for the 2006 Annual Meeting.

Sixty six of your competitors know that the STLE Annual Meeting is the place to be. Company specific information like product names is only allowed in the trade show and the Commercial Marketing Forum (now sold out.) Contact Tracy Nicholas at (630) 922-3459 or trnicholas@stle.org for information.

2006 STLE Vic Joll Award Recipient announced

The STLE 2006 awards will be presented in Calgary at the STLE Annual Meeting. The other major awards were announced in the [March email update](#).

The Vic Joll Award for STLE Section Member of the Year recognizes those who have made significant contributions at the Section level. The winner of this award is Roger E. Melley.

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Sponsor list

TITANIUM LEVEL (\$3,000 and above)

- Alberta Section
 - Welcoming Party
- ExxonMobil Chemical Company
 - Bookmark
- R.T.Vanderbilt
 - Presidents Luncheon
- Uniqema
 - Educational Materials
- Lubrizol
 - Registration Bags
- Lonza
 - Massage Table
- Infineum
 - Presidents Luncheon
- Custom Synthesis, LLC
 - Refreshment Breaks
- Afton Chemical Company
 - Keycards

PLATINUM LEVEL (\$2,000)

- Ultra Additives
 - Lanyards
- Maryn Intl. Ltd.
 - Welcoming Party

- Chemtura
 - Speakers Breakfast

GOLD LEVEL (\$1,000)

- WELCOMING PARTY**
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- R.T.Vanderbilt
- OM Group
- Chicago Section
- Arch Chemical

SILVER LEVEL (\$750)

- WELCOMING PARTY**
- Sea-Land Chemical

BRONZE LEVEL (\$500)

- WELCOMING PARTY**

30 day free trial of TRIBOLOGYnetBASE,

Collaboration with CRC Press allows STLE members to have a free 30 day trial of the state-of-the-art online tribology resource library.

This is a unique opportunity to get single-user pricing for individuals on CRC's powerful Netbase product. This online site is designed to provide libraries, corporations and institutions with multi-user access to the world's most authoritative resources and reference material. Individual access is available only to STLE members.

CRC Press/Taylor & Francis is the publisher of many of STLE's books and journals. For more information about TRIBOLOGYnetBASE, read TLT magazine, contact STLE at (847) 825-5536, or email information@stle.org. For more information about CRC's Netbase products, contact Corey Worthington at (561) 998-2237 or corey.worthington@taylorandfrancis.com

Newly released Metalworking Fluids book, second edition, now available

Metalworking Fluids summarizes the latest thinking on various technologies related to metalworking fluid development, evaluation, and application.

The book edited by Jerry P. Byers:

- Contains new chapters on metal cutting, air quality and fluid mist in the workplace and costs and benefits of metalworking fluids.
- Describes the chemistry of fluid types including straight oil, soluble oil, semisynthetic and synthetic fluids.
- Offers helpful suggestions for achieving better productivity in applications such as cutting, grinding and forming.
- Provides tips on fluid maintenance, filtration, recycling techniques and monitoring to reduce fluid use costs and impact to the environment.
- Contains revised chapters on fluid performance, microbial control, waste treatment management, and health and safety issues.
- Presents various technologies relating to metalworking fluid development, evaluation, and application.
- Offers a comprehensive glossary of terms and definitions.
- Contains useful information for machine operators, plant managers, foremen, engineers, chemists, biologists, government and industrial hygienists, and students in manufacturing and industrial disciplines.

Metalworking Fluids, second edition, released in March of 2006, is a critically acclaimed choice for improved productivity.

Timken Company
 Syncrude Canada Ltd.
 St. Lawrence Chemical
 NCEed Enterprises Inc.
 GasTOPS Ltd.
 Fluid Life Corporation
 Detroit Section
 Compass Instruments/Falex Corporation
 Commercial Solutions
 Chem Central
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COPPER LEVEL (under \$500)

WELCOMING PARTY

Beta Machinery
 Northern California Section
 Pittsburg Section
 Functional Products
 Atlanta Section
 Allan R. Nelson Engineering
 Philadelphia Section

STLE Annual Meeting Exhibitors

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 Arch Chemicals Inc.
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 Biosan Laboratories, Inc.
 Buckman Laboratories Inc.
 Cannon Instrument Company
 Cathay Biotech
 Chemax Performance Solutions
 Chemtura Corporation
 Chevron Phillips Chemical
 Ciba Specialty Chemicals
 Cognis Corporation
 Compass Instruments / Falex Corporation
 Crystal Inc PMC
 Dover Chemical Corporation
 Dow Chemical Company
 E-ION
 EPT - Cleanoil.com
 ExxonMobil Chemical Co.
 Functional Products
 GE Advanced Materials
 Huntsman Corp
 Hysitron, Inc.
 Industrial Research & Development Inst.
 Infineum USA L.P.
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 Ivanhoe Industries
 King Industries
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 Taylor & Francis Books, Inc.
 Taylor & Francis Group, LLC - CRC
 Press
 The Fluid Life Corporation

The STLE member price is \$125. The non-member price is \$139.95. [Order here.](#)

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Online Metalworking Fluids forum

Take advantage of this new member benefit to get answers to your questions quickly.

Some sample issues being discussed on this forum include:
 I would like to know the best type of coolant for machining aluminum. Is it a semi-synthetic or does it depend on the type of aluminum? Are there any differences for cast aluminum as is used in the automotive industry?

Is routine condition monitoring worth the cost and time invested? To what extent do condition monitoring data help you to identify what is causing specific MWF performance problems?

By going to the Members Only section of the www.STLE.org website members can:

- Keep on top of current MWF issues
- Get immediate answers from MWF colleagues
- See what other MWF professionals say
- Let it all come directly to your e-mail box

To ask a question or see the answers, create a new email. Your subject line should be something very specific like corrective measures to prevent metalworking fluid failures or whatever you want. Just put your question into the email message and send it to stle-metal_working_fluids_forum@online.stle.org It will be posted on the web.

To receive the answers and comments immediately into your mailbox or as a daily digest, bookmark http://online.stle.org/read/my_forums/ Change your my account preferences to have the discussions come directly to your e-mailbox.

Access to an immediate source for answers is one of the most requested membership benefits. Take advantage of this new resource.

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Technical Training for Oil Analysis Professionals

These two new courses offered by Condition Monitoring International (CMI) of Atlanta are designed to connect attendees with the theoretical and practical knowledge needed to become OMA-certified through STLE. Both two-day programs use fresh, how-to examples from today's laboratory setting, practical case studies, annotated notes, peer group discussions and other contemporary adult education techniques.

Using the approved body of knowledge related to the OMA I and OMA II certification exams, CMI experts have integrated a substantial amount of material from the acclaimed Lubrigard Training programs to create both two-day courses for oil analysis professionals:

Who should take these courses:

OMA-101: Essentials of Sampling and Reporting (OMA-1)

is for the Maintenance Engineer or Millwright/Operator/Oiler who:

- Takes samples for oil analysis.
- Carries out condition-based maintenance activities.
- Reviews sample reports for equipment requiring condition-based maintenance
- Reports back to reliability technician or planner/foreman on maintenance findings

OMA-201: Maintenance Planning and Supervision (OMA-II) is for the Reliability Technician/Engineer, Maintenance Supervisor, or Planner/Foreman who:

- Reviews and approves work orders for maintenance activities

TribSys LLC
 Uniqema Lubricants
 W.L. Gore & Associates
 Wiley
 Wincom, Inc.

"I have been attending the annual meeting for many years since 1999. It's been a good learning experience every time I attend. I attend the technical sessions to learn more about my work, attend commercial sessions to learn about the latest in the industry I work in. I mingle with professionals of my field, meet new people, discuss work and other issues. Networking is great at the annual meeting."

Hiam Chipman
 Tower Oil & Technology Company

"The STLE Annual Meeting is an absolutely mandatory event for learning the latest technologies in your field, meeting with suppliers, customers, friends, and even competitors! Where else but STLE?"

Jerry Byers
 Milacron Inc.

Test Your Knowledge

Questions:

1. Nitrites have been voluntarily removed from most metalworking fluid formulations because of health concerns. What potential carcinogen is formed when nitrites combine with secondary amines?
2. Iron and copper are two wear metals that are most commonly found in abnormal used oil samples. (True or False)
3. What is the best and most efficient way to determine the condition of a bearing in service?
4. Aniline Point is a measure of a petroleum fluid's lubricity. (True or False)
5. Some elements listed from a spectrographic test can be a result of what?

Answers:

1. Nitrosamines.
2. True.

- Reviews sample reports for equipment where condition-based maintenance activities have been requested.
- Follows-up to ensure that maintenance activities were carried out.

What the courses cover:

OMA-101:

- Fundamentals of lubricants and lubrication.
- Principles of friction and tribology and how these relate to lubricant performance tests and failure analysis.
- Proper oil maintenance, including handling, storage, filtration, recycling and disposal.
- Targeting cleanliness through oil monitoring.
- Sampling methods concepts and intervals.
- Oil analysis: testing the physical and chemical properties of the oil based on traditional methods as well as newer technologies such as metals spectroscopy and ferrography. Interpretation basics: how to read a report, understand the data and reconcile lab comments.
- Concludes with an interactive review, and participants receive extensive educational materials for ongoing support and reference on the basic concepts and principles.

OMA-201 assumes OMA-101 has been completed and covers:

Fundamentals of condition monitoring

- Test application and analysis
- Data interpretation, statistics and trending
- Data interpretation for on-highway, off-highway and industrial samples
- Technology integration using oil analysis, vibration, thermography and software to achieve reliability-centered maintenance and
- Bottom line considerations to designing a maintenance program, selecting vendors and communicating results to management.
- Concludes with an interactive review, and participants receive extensive educational materials for ongoing support and reference on the basic concepts and principles.

For more information, contact bweinstein@stle.org

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CAREER CENTER on www.stle.org

Take advantage of targeted career listings on the STLE website for posting jobs and resumes. There are 71 resumes and 7 job opportunities now listed. When posting an ad for an open position you want those with the necessary experience and knowledge in the lubrication industry to see it. The STLE website readers have the valuable experience and knowledge you seek. Here is a sample of a recent job listing:

Industry & OEM Liaison Manager, Sales/Marketing/Technical Services & Support, minimum requirements: BA/BS/Undergraduate with over 10 years of experience; 25-50% travel.

Job Description

-Commercial position with emphasis on product management and developing OEM and Industry related contacts, research, and performance testing designed to identify new business opportunities.

-Participate in key technical committees in PCMO and HDEO markets both in North America and Europe.

Requirements:

-Knowledge of Passenger Car Motor Oil Market (PCMO) and technology.

-Ability to coordinate projects and institute programs with major OEM's on a global basis.

3. Obtain a sample of the lubricant routinely and have it analyzed.

4. False. (Correct answer: Solvency).

5. Either additives or wear metals.

-Minimum Bachelor of Science Degree

-Minimum of 10 years industry experience; multi-lingual a plus

For additional details, please go to http://www.jobtarget.com/home/index.cfm?site_id=315

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The full articles will be available in the magazine, which is included with all memberships.

LUBRICATION FUNDAMENTALS: A little more about lean manufacturing
By Dr. Robert M. Gresham.

Clean Grease is not an oxymoron
By Paul Bessette

PEER-REVIEWED PAPER Air Bearing Spindle Motor for Hard Disk Drives,
By Qide Zhang, Guoxiao Guo and Chao Bi.

20 Minutes With ... Dr. Emmanuel Ezugwu
This Nigerian researcher continues to work hard at his craft in developing the next generation of aerospace superalloys used in dry machining applications.
By Karl M. Phipps

DEPARTMENTS AND COLUMNS

Tech Beat - The benefits of nickel aluminide in improving steel processing; MOFs: More effective gas adsorbers; novel heat transfer technology. By Dr. Neil Canter

Around the Industry - This month's newsmakers include Polaris Laboratories, John Crane, Ciba Specialty Chemicals and more.

Sounding Board - Should tribology be considered as a college major?

Test Your Knowledge - What is the best and most efficient way to determine the condition of a bearing in service?

New Products - Total Fluid Management System; industrial fluid containers; nano tribometer and more.

President's Report - STLE international: problems and opportunities.

From the Editor - Global Warming: Maybe an idea worth revisiting.

Headquarters Report - Technical information peaks in Calgary.

Shop Floor - Another lesson learned can sometimes be messy.

Cutting Edge - Nature's soft touch.

Advertisers Index

Resources

How to join, update records or renew your membership in STLE

To join STLE: https://www.stle.org/secure/membership_application/index.cfm

To update your records, including email changes: www.stle.org/address_change/index.cfm

For corporate memberships and renewals:
https://www.stle.org/secure/corporate_application/index.cfm

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