



STLE Update

WHERE SCIENCE MEETS THE BOTTOM LINE



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 a variety of locations or through the new [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.

September 2005

WELCOME

STLE Update provides our 4,000 members worldwide with news about STLE and practical content useful to technical professionals. Here's what's happening this month.

Oct. 1 deadline for Calgary papers

Watch your mailbox—any day now STLE members will receive a postcard announcing the society's 2006 Annual Meeting & Exhibition, May 7-11 in Calgary, Alberta, Canada. More than 1,200 professionals from every area of the lubricant and tribology communities will be there to gain technical training, take an education course, attend the 80-exhibitor trade show and network with their peers from the U.S. and around the globe.

The heart of any STLE Annual Meeting is the technical program, and the society expects more than 300 papers will be presented in Calgary. If you are planning on presenting a paper in Calgary, be aware that the deadline for submitting your proposal is Oct. 1. The easiest way to submit your proposal is through www.stle.org, or simply [click here](#) to go to the 2006 Calgary Offer Form.

A 48-page brochure with details on the 2006 Annual Meeting & Exhibition will mail with the January issue of TLT magazine. Registration fees remain the same as 2005, and STLE has added a one-day registration option.

Education takes center stage

Education is always a major reason why many people attend the STLE Annual Meeting & Exhibition, and the Calgary event features seven lubrication courses taught by world-class instructors. If you sign up for an education course in Calgary, you automatically are registered for the rest of the STLE Annual Meeting & Exhibition.

There's always the possibility of a schedule change, but right now the education agenda looks like this:

Sunday, May 7

- Basic Lubrication Part I
- Advanced Lubrication
- Metalworking Fluids Certificate Course Part I
- Synthetic Lubricants Part I
- Hydraulic Systems

Monday, May 8

- Basic Lubrication Part II
- Metalworking Fluids Certificate Course Part II
- Synthetic Lubricants Part II

Tuesday, May 9

- Basic Lubrication Part III (half day)
- Metalworking Fluids Certificate Course Part III (half day)

Wednesday, May 10

- Condition Monitoring
- ABMA (American Bearings Mfg. Assn.) Bearings and their Lubrication.

Upcoming Meetings:





CALGARY - MAY 7-11, 2006

E-mail your comments to
STLEUpdate

determining which oil to use in a diesel engine, one should use an oil with the highest total base number (TBN) available. {True or False}

2. What is the No. 1 cause of motor failures?

3. A colloid is the name for a suspension of very small particles in a liquid that is _____.

4. A 68 ISO oil can be added to an oil sump that requires 100 ISO oil as long as it has the same chemistry package as the 100 ISO oil to ensure additive compatibility. {True or False}

5. What is the most important characteristic of lubricating oil?

Answers:

1. False.
2. Overgreasing bearings.
3. Very stable.
4. False.
5. Viscosity.

Visit our website at
www.stle.org

Exhibitor Prospectus on the way

A six-page color prospectus, containing all the information needed to exhibit at the Calgary annual meeting, mails to STLE corporate members and other interested parties in early September. The exhibition, featuring some 80 organizations displaying the latest in lubricant products and services, is May 8-10, 2006, at the TELUS Convention Centre in Calgary.

If your company is considering exhibiting, you can look forward to connecting with R&D people, formulators, senior managers, engineers and other members of tribology's unique interdisciplinary community. Consider, too:

- 78% of STLE members recommend products and vendors to their organizations.
- 75% of them evaluate products and initiate purchases.
- 66% of them prefer to learn about products at trade shows and through advertising appearing in STLE publications.
- 98% of them say they find STLE's annual exhibition useful when making decisions about products to purchase.

The prospectus also contains information on many annual meeting sponsor opportunities, with a variety of price tags ranging from less than \$500 to more than \$3,000. Sponsor opportunities are a great way to increase your company's profile at the meeting.

For more information on exhibit booths and sponsorships, contact Tracy Nicholas VanEe at 630-922-3459, tnicholas@stle.org.

STLE/SME MWF Certificate Course coming

Introduced last fall and repeated at the 2005 STLE Annual Meeting & Exhibition in Las Vegas, the Metalworking Fluid Management Certificate Course is being offered again by popular demand. Upcoming dates are Nov. 1-3 at SME headquarters in Dearborn, Mich., March 26-29, 2006, at SME's WESTEC Conference in Los Angeles and again at STLE's Annual Meeting in Calgary next May.

The Metalworking Fluid Management Certificate Course is an in-depth overview of metalworking fluids, including a comprehensive look at the latest techniques and practices available. You'll learn through case studies and other real-life situations.

Students who pass a test receive a certificate stating that they have completed the course. However, this certificate is not to be confused with STLE's Certified Metalworking Fluids Specialist® (CMFS) certification program. The CMFS program is a more intensive study program that culminates in a three-hour, 150-question exam.

However, the MWF course is an excellent opportunity for those who work with these critically important fluids. By attending the program, you'll have the opportunity to:

- Review the various operations that use metalworking fluids.
- Explore the fundamentals of fluid and additive chemistry.
- Analyze factors that affect the quality of metalworking fluids and the work environment.
- Learn about the unique aspects of metalworking fluid microbiology and toxicology.
- Review a broad range of condition monitoring tests, learning how to use condition monitoring to manage metalworking fluids in individual sumps and large central systems.

List price for the course is \$1,395 for STLE and SME members and \$1,595 for all others. You can register at www.stle.org.

Now available: Two books to help you prepare for CLS

The CMFS is STLE's newest certification and augments the society's Certified Lubrication Specialist (CLS) and Oil Monitoring Analyst (OMA) programs. More than a thousand professionals hold STLE certifications—more than a third of the society's entire membership.

If you're an STLE member, two books are now available at a discount that will help you prepare for the 150-question CLS exam. As of this writing, 755 industry

professionals hold STLE's CLS certification.

The first book is the newly revised Basic Handbook of Lubrication, published by STLE's Alberta Section. The upgraded second edition offers practical advice for anyone involved with lubricants and lubrication engineering.

The handbook is a comprehensive 300-page text with entries from more than 25 contributors covering 30-plus topics. With an emphasis on tribology fundamentals and practical applications, the handbook is an excellent reference for newcomers to the field as well as industry veterans.

The second book is The Lubrication Engineer's Manual, also in its second edition. At 628 pages, the manual is an A-Z guide for anyone involved with lubrication and/or maintenance. The publication contains 12 sections:

- Fundamental concepts
- Test methods
- Statistics
- Plant lubrication programs
- Performance guidelines
- Bearing practices
- Gears
- Conservation and used oil management
- Lubrication systems
- Basic hydraulics
- Maintenance cleaning
- Seals.

The Basic Handbook of Lubrication is \$60 for STLE members and \$80 for non-members. The Lubrication Engineer's Manual is \$150 for STLE members, \$225 for non-members. Both books can be ordered from STLE's Web site: www.stle.org.

The next CLS and OMA exams are scheduled for Sept. 23 in St. John's, Newfoundland, Canada. For more information, contact Barb Rapacz at brapacz@stle.org.

Register on site for World Tribology Congress

Although preregistration closed Aug. 26, you can register on site for the third World Tribology Congress, Sept. 12-16 at the Washington Hilton hotel in Washington, D.C.

The Congress is co-sponsored by STLE and ASME in conjunction with the International Tribology Council. Event organizers have assembled a stellar technical program that spotlights cutting-edge technology. Among the highlights are sessions focusing on nanotribology, the influence of adhesion and stiction in MEMS devices and a special K.L. Johnson Symposium paying tribute to a pioneer in the field of contact mechanics.

The technical program also covers such vital technologies as lubricants, wear, tribochemistry, additives, bearings, engines, materials, surface engineering and aerospace. Advances in health and safety topics also will be highlighted with an emphasis on the impact of tribology on biomaterials and biomedical devices.

Also on the agenda as one of four plenary speakers is STLE-member Dr. James A. Spearot, director of the Chemical and Environmental Sciences Laboratory for GM's Research and Development Center. His presentation is titled, "Tribology in the Automotive Industry—A Critical Enabler for Improved Efficiency, Productivity and Performance."

If you attend, you are strongly advised to stay at the Washington Hilton. A less-expensive hotel room, if you can find one at this date, might not be such a bargain once you factor in cab rides and lost time. Also, staying at the Hilton maximizes your networking time with your tribology colleagues from around the globe.

For more information and to register for the third World Tribology Congress, log on to www.conferencetoolbox.org/WTC05/index.cfm.

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