



[Annual Meeting information](#)

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 at the Annual Meeting, by Local Sections and through certificate programs available in the field and online.

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.

Save the dates:

2007 Joint Tribology Conference
cosponsored with ASME
October 22-24, 2007

STLE Headquarters will be closed Saturday December 23rd until January 2nd.

CONTENTS OF DECEMBER 2006 UPDATE:

- #1. STLE 2007 Annual Meeting registration is now open.
 - 1A. [Register now for the meeting](#)
 - 1B. [Hotel reservations available](#)
 - 1C. [10 newly-revised one day education courses offered.](#)
 - 1D. [Certification exams offered.](#)
 - 1E. [Record breaking number of technical sessions planned](#)
 - 1F. [Heart transplants and tribology in the Bionic Age is the keynote session.](#)
 - 1G. [Authors have been notified of the times of their presentations.](#)

 - #2. [70% of participants would recommend the LubeLearn education courses in the members only portion of the website to a colleague.](#)

 - #3. [The STLE online Career Center has jobs listed for lubrication professionals.](#)

 - #4. [Tell your colleagues how to improve delivery of info from STLE.](#)

 - #5. [Sneak peek at the contents of the December issue of Tribology & Lubrication Technology, including reading President McCoy's vision of the future of STLE online.](#)

 - #6. [How to join or renew your membership](#)
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#1A & B. Registration is now open for both hotels and the Annual Meeting. Register now for best availability on hotels rooms.

#1C. STLE 2007 ANNUAL MEETING EDUCATION COURSES

New one day courses only:

Based on last year's attendee surveys, we are offering all one day courses. This allows for more flexibility in scheduling and selecting relevant topics. The courses are designed to feature either the practical applications aspects of the subject or the fluids and chemistry of the lubricants. The content of the multiple day courses is now offered in separate one day courses.

Further, each course is now numbered with a 100, 200, or 300 level to offer appropriate guidance as to the prerequisite knowledge and experience.

The Education program features nine one-day courses, including two Basic Lubrication courses in fluids and systems; two Synthetics courses in fluids and applications; two metalworking courses in Health, Safety and Microbiology, and an all new introductory course in Metal forming. Additionally, there are one day courses in Advanced Lubrication, Condition Monitoring, and Hydraulic Fluid Technology.

The quality of the faculty remains the same and includes over 50 of the world's top experts who have been selected by STLE's Education Committee to teach these courses. Instructors are working professionals who have in-depth knowledge of the current issues and trends impacting their respective fields.

#1D. CERTIFICATION EXAMS

Marriott San Diego Mission
Valley Hotel
San Diego, California

2008 STLE Annual Meeting
May 18-22, 2008
Cleveland convention Center
Cleveland Ohio

www.stle.org

Certification exams will be given in Philadelphia. Registration can be done on the registration page on our Web site, not the meeting registration page. Plan ahead to take these exams in May.

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#1E. OVER 400 TECHNICAL SESSIONS

Hear a record breaking number of technical sessions. Over 400 topics have been selected for presentation based on their value and interest. Tracks for technical sessions include:

Aerospace
*Ceramics
Condition Monitoring
Engine and drive train
Environmentally Friendly Fluids
Fluid Film Bearings
*Gears
Grease
Hydraulics
Lubrication fundamentals
Metalworking Fluids
Nanotribology*
NonFerrous Metals
Power Generation
Practical Lubrication Solutions
Rolling Elements
Safety, Health and Regulatory Affairs
Seals
Solid Lubricants
Surface Engineering
Synthetic Lubricants
Tribotesting
Wear*

*These sessions include panel discussions

#1F. KEYNOTE SESSION

"Tribology in the Bionic Age"

By Dr. Said Jahanmir of Mohawk Innovative Technology, Inc., & MiTiHeart Corp.
Monday, May 7 10:30 a.m. - Noon

There is no doubt that tribologists will play a significant role in the Bionic Age of replacement parts for humans, since many devices have moving parts, and control of friction and wear remains a challenge for the future. Following a brief overview of some of the exciting medical devices being developed to improve the quality of life and extend life expectancy, Dr. Jahanmir will focus primarily on heart-assist devices used to prolong the life of patients with congestive heart failure.

Provided in this presentation is an overview of current blood pumps and those under development. This discussion is followed by a description of the multidisciplinary design process used to develop such pumps along with performance data obtained in both laboratory testing and animal studies.

Tribology impacts two critical issues: hemolysis (damage to the red blood cells) and thrombosis (blood clot formation). Shear stresses within the flowing blood must be kept within a narrow band above which blood can be subjected to hemolysis and below which thrombosis becomes a serious life-threatening issue.

Since the surgical community is requesting at least a five-year pump life, mechanical bearings must be designed with an acceptable shear stress through the bearings, as well as extremely low wear rate of the bearing surfaces. A new approach to this problem is the use of magnetic bearings that eliminates contact and potential for life-limiting wear of the pump components. Nevertheless, all shear stresses must be calculated and modeled. The presentation also describes the arduous regulatory approval process that such devices must endure before they can be safely implanted to save the life of thousands of people.

#1G. Presentation time slots are assigned for the 2007 Annual Meeting.

2007 Annual Meeting speakers have been notified regarding their presentation time in Philadelphia. If you have questions, please contact [Cindy Tomala](#) or 630-323-7212.

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#2. COMPLIMENTARY LUBELEARN COURSES FOR MEMBERS

According to a recent survey regarding STLE's online education courses, only 20.4% of STLE members are familiar with the e-learning course on the fundamentals of tribology and lubrication. The LubeLearn course is included with membership and is located in the members only portion of the website.

STLE members who took the course had a very favorable opinion. 70.8% would recommend it to a colleague, and the other 29.2% percent might possibly recommend the course. They especially liked the level of the content (77%), the graphics (63.6%) and the text (50%).

This is just another benefit of membership in the premier organization for lubrication professionals.

#3. CAREER CENTER IS THE PLACE TO FIND A LUBRICATION PROFESSIONAL

Four new jobs have been posted on the Career Center of the STLE website in the past week.

The most recent listings are seeking Heavy Equipment Technical Sales Specialists, a Lubrication Application Engineer, an OEM Marketing Manager and a Formulation Chemist.

Employers should keep in mind that the place to look for experienced lubrication professionals is on the Career Center of the website that specializes in these very specific jobs. There are also almost 100 resumes posted on the Career Center. Is the person to fill your opening already looking for you?

**#4. MISSING NEWSWORTHY ITEMS THAT HELP YOU DO YOUR JOB?**

Publisher's Note: To avoid delivery problems with email sent by STLE and this monthly update, subscribers should enter bweinstein@stle.org in your address books. Or [read more here](#) about how to get STLE email whitelisted (not blacklisted) so you can read what is new.

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#5. December 2006 CONTENTS of TRIBOLOGY & LUBRICATION TECHNOLOGY**Tech Beat:**

This month TLT explores reducing friction in medical devices; preparing heat-transfer nanofluids; developing a dry film lubricant.

By Dr. Neil Canter

Lubrication Fundamentals:

Plant Tours: Boondoggle, waste of time or opportunity?

After a long hiatus, visits to manufacturing facilities are back in vogue

again - with good reason.
By Dr. Robert M. Gresham

Feature Article:

Cold Play
Scientists, researchers and industry continue to unlock the slippery mysteries of ice and snow.

By Nancy Nalence and Betty Catalina Rostro

Peer-Reviewed Paper (Editor's Choice)

A Surface Texturing Approach for Cleaner Disc Brakes

By Mohsen Mosleh and Bomani A. Khemet

Around the Industry - This month's newsmakers include Sea-Land Chemical, Cognis, Quaker Chemical and more.

Sounding Board - Readers offer advice to President Bush and the new Congress about issues affecting the lubricant industry.

New Products - Aerosol food grade oil and grease; industrial fast funnels; Mobilgear 600 XP series; bearing tester instrument.

Advertisers Index

Test Your Knowledge

Resources - Keep up-to-date with the latest technical literature available in print and online.

President's Report - Six goals for the future. [Read it online now.](#)

From the Editor - Winter's tribology challenges.

Headquarters Report - STLE offers you more in 2007.

Shop Floor - A tribologist's Christmas list.

Cutting Edge - Leaves on the line

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#6. HOW TO JOIN OR RENEW YOUR MEMBERSHIP

[To join](#)

[To renew](#)

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