



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 and technical committees and industry councils.

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[www.stle.org](http://www.stle.org)

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Click here for details about the International Joint

## July 2007 STLE Update

[IJTC registration, hotel reservations and program are now online.](#)

[STLE Annual Meeting 2008 in Cleveland, Ohio on May 18-22, 2008 details](#)

[STLE Annual Meeting 2007 survey and more winners](#)

[Certification programs gain marketplace recognition](#)

[Membership Totals](#) climbed in 2006-07

[Career Center](#) - check out the 20 jobs posted.

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**IJTC registration, hotel reservations and preliminary program are now online.**

The International Joint Tribology Conference, cosponsored by ASME and STLE, will be held on October 22-24, 2007 at Marriott Mission Valley, San Diego, California. This cutting edge conference is a truly international conference with 159 out of 270 presentations, nearly 60%, prepared by individuals from outside the US. Japan (26) and France (21) top the list of contributing countries.

- You can view the preliminary program for the IJTC at <http://www.asmeconferences.org/ijtc07/>. Plan to attend!
- You may register for the meeting at <https://www.stle.org/secure/jtc/index.cfm>
- Make your [hotel reservations](#) early so you can reserve at the special conference rate.
- **IJTC Topics include:**
  - Tribomaterials and tribology fundamentals
  - Lubricants and additives
  - Elastohydrodynamic lubrication
  - Hydrodynamic lubrication and fluid film bearings
  - Rolling element bearings
  - Engine tribology
  - Machine components tribology
  - Contact mechanics
  - Magnetic storage tribology
  - Manufacturing/metalworking tribology
  - Nanotribology
  - Engineered surfaces
  - Biotribology
  - Emerging technologies/other

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**STLE Annual Meeting 2008 in Cleveland, Ohio on May 18-22, 2008**

The theme is saving energy, but all lubrication improvements help to save energy and money.

- Exhibitor applications are being accepted now for the STLE Annual Meeting 2008 in Cleveland, Ohio on May 18-22, 2008. For information on exhibiting, go to [https://www.stle.org/secure/annual\\_meeting/exhibitspace\\_index.cfm](https://www.stle.org/secure/annual_meeting/exhibitspace_index.cfm)

## Tribology Conference

October 22-24, 2007  
Marriott Mission Valley  
San Diego, CA

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### Whitelist our address

If you want to be sure to get all the information that STLE sends to members, it is suggested that you whitelist the STLE email addresses. Whitelisting is the opposite of blacklisting, and assures that emails sent to you are actually received.

Instructions on how to whitelist our address can be found [here](#).

If you have a different preferred email address, make sure you notify us.

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### Fact of the Month

To buy the Handbook of Lubrication and Tribology, Metalworking Fluids or any other publications, please go to the online [STLE publications center](#) or send an email to [info@stle.org](mailto:info@stle.org)

Chapters 1 - 5 of the Handbook of Lubrication, edited by George Totten, have been highlighted in past monthly updates. Chapter six covers Aircraft Gas Turbines and was written by Andy Hall of Rolls Royce plc.

Section 6.4.4 covers oil firing. It says:  
When designing bearing chambers on a gas turbine, it is important to understand at what internal conditions the engine is going to operate. Many engines run with a number of bearing chambers supplied with cooling and sealing air, which is designed to enter the bearing chamber as part of the sealing process. Other bearing chambers are simply sealed

- The Offer of Paper submission site for the 2008 STLE Annual Meeting in Cleveland will open in early July. The deadline for submission of your 150 word abstract is October 1, 2007. Extended Abstracts which will be included on the Proceedings CD will be due at a later date.

- Send a quote for use in publicizing the 2008 Annual Meeting on how STLE or lubrication saves your company energy to [bweinstein@stle.org](mailto:bweinstein@stle.org).

- Call for papers for Professor Ken Ludema Symposium  
As part of the 2008 STLE annual meeting in Cleveland, a special symposium will be held in honor of Professor Ken Ludema on the occasion of his 80<sup>th</sup> birthday. This event is organized to recognize the many contributions and service of Professor Ludema to the field of Tribology in form of scholarly research, teaching, editorial, etc. for nearly five decades.



We invite you to participate in this event by presenting your work at symposium. Research papers, analysis and modeling, new ideas and concepts, as well as insightful reviews and opinions in all areas of tribology are invited. Please submit your presentation abstract on-line at [http://www.stle.org/offer\\_of\\_paper/index.cfm](http://www.stle.org/offer_of_paper/index.cfm), and be sure to indicate Professor Ken Ludema Symposium as the preferred session. The deadline for paper submission is October 1, 2007. See you in Cleveland.

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### 2007 Annual Meeting wrap up

#### AM 2007 Evaluation Survey

Results from our post-meeting survey are also encouraging and reflect the valuable work being done through STLE. The overall positive rating for the Annual Meeting has increased by more than 30% over the past three years, and 95% of survey respondents said the Philadelphia meeting either met or exceeded their expectations. One person's comment sums up why this meeting is so valuable:

*"The STLE Annual Meeting represents an unparalleled opportunity to network with other research and industrial colleagues, and catch up on the latest developments in the field."*

#### Another Winner

The Wear Technical Committee announced the finalist of the 2007 best presentation award, Dr. Thomas Massmann of RWTH Aachen University, Germany. His paper was titled "Interactions Between Tool Coatings And Lubricant Additives In Cold Forming." The Wear Technical Committee thanks him for his excellent contribution to the 2007 Annual Meeting!

#### Correction:

David Asay from Pennsylvania State University was one of the student poster winners from the 2007 Annual Meeting. Sorry, David, for getting your name wrong last month.

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#### STLE Certification

Activity in professional certification has been on a steady increase, indicating its value to the marketplace. STLE's certification programs are continuing to move forward with a record thirteen exam sittings in the first half of 2007. More than 1,000 people – about one-third of the STLE membership – now hold one or more of our four professional credentials.

Third party certification increases both corporate and individual credibility in the marketplace. STLE certification is now commonly cited as a preferred candidate

by some device or operation and no air enters these chambers.

In those chambers that have to be ventilated, it is important to ensure that the oil and air conditions within the chamber remain balanced; any reduction in the removal of vent air because of a blocked vent pipe or a reduction in the quantity of oil scavenged from the chamber could increase the possibility of oil firing. Therefore, if the vent from a bearing chamber becomes blocked, the oil will become stressed owing to the increase in temperature and the anti-oxidant additives will start to protect the base stock from oxidizing. Any reaction by the antioxidant should be recognized by maintenance personnel as a change in the color of the oil and possibly a rancid smell. There is also a chance that the reduction in vent air within the bearing chamber will cause an increase in Total Acid Number (TAN) for the oil owing to the increased oxidation.

Oil firing will occur only when the conditions inside the bearing chamber cause the oil to exceed its auto-ignition point; fortunately, this will be the highest ignition point for the oil and usually well above the maximum temperature limit for engine operation. Neither the flash point nor the flame point should cause oil firing because very rarely is there a source of ignition present; also the area is generally too oil rich to allow oil firing to happen.

credential in help wanted ads. Salary surveys show that individuals with the CLS or another designation earn an above-average salary.

For more information on the three STLE certifications, go to <http://www.stle.org/certification/>

For more information on the STLE education partners program, go to [http://www.stle.org/education\\_training/edu\\_partners.cfm](http://www.stle.org/education_training/edu_partners.cfm)



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#### **Membership Totals**

During the membership year 2006-2007 (which concluded April 30), total membership climbed for the first time in several years. Looking behind those numbers is revealing. In that time period, 60% of the local sections experienced a membership increase, and six recorded double digit gains. Another measure of success is the fact that during the first quarter of 2007 STLE added new members at a rate of more than two per day.

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#### **Website Career Center**

The STLE website has 20 jobs listed for lubrication professionals and more than 100 resumes from available technical experts.

See more details on jobs such as the following:

The Program Manager will be directly responsible for leading a team to meet contractual goals for our customer. In addition, the Program Manager will be directly responsible for management, inventory and usage of metal working fluids and lubricants products used on-site. This is an on-site position at a Heavy Equipment manufacturer's facility.

View the Career Center on the STLE website here [http://www.jobtarget.com/home/index.cfm?site\\_id=315](http://www.jobtarget.com/home/index.cfm?site_id=315)

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#### **Introductory offer on TLT magazine for your coworkers, distributors, suppliers.**

Readers of the STLE monthly update may recommend someone who should be reading the monthly print magazine, *Tribology & Lubrication Technology*, on a trial basis until December 2007. The Table of Contents is shown below for the most recent issue. We are very proud of this magazine, and know there is excellent information that lubrication professionals should have. We are extending this unique limited offer to you to introduce the magazine to a future reader of TLT. There is no need to inquire if they are already getting the magazine as current TLT readers will not get a duplicate. Send name, title, company, mailing address, phone number and email to Beth Weinstein at [bweinstein@stle.org](mailto:bweinstein@stle.org) to introduce TLT to your supplier, distributors, buyers or a co-worker. No need to send any money. Take advantage of this unique offer now. The timing will not be extended.

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#### **Contents of Tribology & Lubrication Technology for July 2007**

##### **Features**

Philadelphia First!

Relive the excitement and highlights of STLE's 62nd Annual Meeting & Exhibition in this eight-page photo montage. (You may also look online here [http://www.stle.org/annual\\_meeting/gallery.cfm](http://www.stle.org/annual_meeting/gallery.cfm) to see photos.)

Lubrication Fundamentals: Lubricant viscosity revisited  
Transferring concepts from the laboratory to the shop floor.  
By Dr. Robert M. Gresham

Synthetic Lubricants: Perception vs. Reality  
Among their many uses, they've helped take spacecraft to the stars and back. But a galaxy of misinformation still surrounds these unique materials.  
By Charles Barrett

Peer-Reviewed Paper (Editor's Choice): New Test for Mild Lubricated Wear in Rolling-Sliding Contacts  
By Jingyun Fan and Hugh Spikes

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### **Departments**

Tech Beat  
Novel corrosion inhibitor for extreme conditions; reduction of adhesion/stiction at the nanoscale; machining with AMQCL technology. By Dr. Neil Canter

Sounding Board  
Readers discuss the ideas they gathered from STLE's 62nd Annual Meeting & Exhibition.

Book Review  
The Lubrication Engineers Manual (Third Edition)

### **Columns**

President's Report: 'Hide not your talents ...'

From the Editor: The synthetic myth

Headquarters Report: Five powerful points

On Condition Monitoring: Seeing is believing

Worldwide: Filterability of oils

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The Society of Tribologists and Lubrication Engineers

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