



## Society of Tribologists & Lubrication Engineers

### 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.

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



### Save the dates:

**2007 Joint Tribology Conference**  
cosponsored with ASME  
October 22-24, 2007  
Marriott San Diego Mission Valley Hotel  
San Diego, California

1. STLE Annual Meeting May 6-10 in Philadelphia, PA
  - A. Early bird meeting and education course registration discount ends April 13
  - B. Author Deadline for Proceedings CD for Annual Meeting is March 30
  - C. Participate in restructuring the Technical Committees and Councils
  - D. Handling Difficult People and Situations presented on May 6 from 5 to 7 pm
  - E. Gears, synthetic lubes, lube fundamentals, etc. are all focus areas in Philly
  - F. Philadelphia - historical and modern city
2. Voting in Board elections closes on April 5
3. Education Partners
4. How many people have current certifications?
5. Career Center helps fill openings for professionals with lubrication experience
6. Fact of the Month
7. April 2007 Contents of Tribology & Lubrication Technology
8. How to join or renew your membership with STLE

### 1. STLE Annual Meeting May 6-10 in Philadelphia, PA

A. Early bird meeting and education course registration discount ends April 13. Register for the meeting or education courses before April 13 to save \$50 on registration. [www.stle.org](http://www.stle.org)

B. Author Deadline for Proceedings CD for Annual Meeting is March 30. Deadline for authors to submit an extended abstract to be included in the proceedings is March 30. Instructions are on the STLE website.

C. Participate in restructuring the Technical Committees and Councils. The STLE Technical Committee/Council Update meeting is set for Sunday, May 6 at 4:00 pm in Salon A. We hope representatives from all committees and councils will participate.

This is part of the STLE 2010 Project. This meeting especially for leaders of the Technical Committees and Councils is to discuss whether some mergers or other restructuring is needed. If the chair or vice chair cannot attend, please make sure another representative attends. STLE is putting in place policies to guide the formation and dissolution of committees. The revised structure itself will come from the grass roots. Also, you will learn about the new policies on content generation for the Society.

Plan your arrival schedule to allow you to attend.

RSVP's or questions should be addressed to Dr. Mike Dugger at [mtdugge@sandia.gov](mailto:mtdugge@sandia.gov).

D. Handling Difficult People and Situations  
Presented on May 6 from 5 to 7 pm.  
Drs. Jean K. Becker and Ed Becker will present this special training session targeted for local section leaders and future leaders. This workshop is appropriate for everyone in dealing with section guests and leaders, as well as other situations.

What can you do? What should you do? This presentation will help you learn to assess the situation and adopt some basic tools that a non-psychologist can quickly learn and use.

E. Bearings, practical lubrication solutions, gears, synthetic lubes, seals, metalworking fluids or lubrication fundamentals, hydraulics, grease and nanotribology are all focus areas in Philly.

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

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**Congratulations to the STLE award winners for 2007. These awards will be given at the President's Luncheon at the Annual Meeting.**

The Fellows Committee under the Chairmanship of Simon Chin-yu Tung has recommended that  
YEAU-REN JENG  
HONG LIANG  
FREDERICK PASSMAN  
AKIRA SASAKI  
JOSE VIZINTIN  
WILLIAM WAMBACH  
QIAN WANG  
be elevated to the grade of Fellow.

The Awards committee under the Chairmanship of Michael N. Kotzalas recommends the following persons for the 2007 Awards.

**The STLE International Award** is the Society's highest technical honor. It is given in recognition of the recipient's outstanding contributions in tribology, lubrication engineering or allied fields. The International Award is being presented to  
TEDRIC HARRIS

**The P. M. Ku Award** recognizes outstanding and selfless achievements for the Society. It is given to the STLE member who typified the late P. M. Ku, who worked tirelessly for the benefit of the Society. The PM KU award is being presented to  
CHRISTOPHER DELLACORTE

**The Vic Joll Award** is given to an STLE member who has worked tirelessly and continuously for the benefit of the section. The award is named in honor of the late Vic Joll, 1978-79 President of the Society, who was a champion of local sections. The Vic Joll Award is being presented to  
RICHARD SCHRAMA

**The Edmond E. Bisson Award** is given for the best written contribution published by the Society in the prior year. Edmond E. Bisson Awards are being presented to

Whatever you are concerned with in the field of lubrication, we have it planned for you.  
If any or all of these are your areas of interest, the STLE meeting in Philadelphia is the place to learn about it. Grease, Hydraulics, Nanotribology and Practical Lubrication Solutions,  
[Synthetic Lubricants](#), [Seals](#), [Bearings](#), [Gears](#), [Metalworking Fluids](#), [Lube Fundamentals](#)

F. Philadelphia: the modern and historical city famous as the birthplace of "life, liberty and the pursuit of happiness."

Philadelphia is one of the earliest examples of a planned city. Its rectilinear grid of streets--now a commonplace feature of urban planning--was its most noteworthy innovation. The city was founded and developed in 1682 by William Penn. The city's name means "brotherly love" in Greek. Penn hoped that the city, as the capital of his new colony founded on principles of freedom and religious tolerance, would be a model of this philosophy. One of the notable features of Penn's plan for the city was the creation of five large squares, to provide open space for the city's residents. Penn described his city as a "Greene Countrie Town," highlighting its difference from densely-built cities like London. Most of the city's construction was brick or stone to prevent fires, like the great fire of 1666 that devastated London when William Penn resided there.  
Source: [Wikipedia](#).

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## **2. Voting in Board elections closes on April 5.**

If you are qualified to vote, ballots and candidate information are found on the website. Full members (not associates) can vote. Return your ballots before April 5.

## **3. Education Partners**

STLE Education Partners offer lubrication training, education and general lubrication knowledge. The STLE Education Partner program provides leadership in helping its members find valid learning information provided by non-STLE sources. STLE promotes technical education through its partners program and offers credentialing through certification programs which recognize proven experience and knowledge.

[Look here for more details about the STLE education partners.](#)

Currently our 4 education partners are

Chevron Lubricants University

Condition Monitoring International

Lubrizol K2M

Polaris Laboratories



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## **4. How many people have current certifications?**

There has been a flurry of recent activity in the 3 certification programs. People know this is a valuable tool to demonstrate the expertise of the company and the

NICHOLAOS DEMAS  
ANDREAS POLYCARPOU  
THOMAS CONRY  
for the paper "Tribological  
Studies On Scuffing Due to the  
Influence of Carbon Dioxide  
Used as a Refrigerant in  
Compressors"

**Frank P. Bussick Award**

is presented for the outstanding  
published technical paper written  
on sealing systems, technology  
and materials published in the  
last year. Frank P. Bussick  
Awards are being presented to  
ANN ROCKE  
RICHARD SALANT  
for the paper  
"Elastohydrodynamic Analysis of  
a Rotary Lip Seal Using Flow  
Factors"

**Walter D. Hodson Award**

honors one of STLE's founding  
fathers. It is given to the lead  
author of the best paper written  
by an STLE member 35 years of  
age or younger published by the  
Society in the prior year. The  
Walter D. Hodson Award is being  
presented to  
RYAN EVANS  
for his paper "Transmission  
Electron Microscopy of Boundary  
Lubricated Bearing Surfaces Part  
II: Mineral Oil Lubrication with  
Sulfur-and Phosphorus-  
Containing Gear Oil Additives"

**Al Sonntag Award**

honors the STLE member(s)  
authoring the best paper on solid  
lubricants published by the  
Society in the prior year. The Al  
Sonntag Award is being  
presented to  
VOLODYMYR IVASHCHENKO  
PATRICE E. A. TURCHI  
for the paper "Atomic-Scale  
Sliding Friction of Amorphous  
and Nanostructured SiC and  
Diamond Surfaces"

**Captain Alfred E. Hunt Award**

Presented to  
SCOTT BAIR  
for his paper "A More Complete  
Description of the Shear  
Rheology of High-Temperature,  
High-Shear Journal Bearing  
Lubrication"

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View STLE's Annual Meeting  
Schedule at a glance  
(PDF format)

individual representing the company.

We now have 832 people designated as Certified Lubrication Specialist (CLS); 114 designated as Oil Monitoring Analysts (OMA I); 17 are OMA II and 67 who are Certified Metalworking Fluids Specialist (CMFS).

For more information on the certification programs, look at  
<http://www.stle.org/certification/index.cfm>

**5. STLE's Career Center helps fill openings for professionals with lubrication experience.**

There are 11 jobs posted on the site. Jobs posted this month include openings in Data Analysis, Marketing and Plant Safety and Operability.

There are also almost 100 resumes posted on the Career Center. Is the person to fill your opening already looking for you?

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.

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**6. Fact of the Month**

Chapter 4 of the Handbook of Lubrication and Tribology is titled Automotive Chassis and Driveline Lubrication. On page 4-26 a summary of the primary attributes and operating parameters that should be considered when selecting a lubricant for any halfshaft joint application can be found. They include (but more detail is given in the chapter):

- Extremely high contact stresses
- Temperature range
- Varied joint angulation
- Seal compatibility
- Moderate to high rotational speeds
- "Lubed-for-life" application
- Frictional requirements
- Heat generation
- Wear
- Generated axial force
- Blend of lubrication regimes – rolling, sliding, skidding

This checklist of bullet points is typical of the chapter, which has helpful lists and diagrams to help prevent lubrication problems.

From the Handbook of Lubrication and Tribology Volume 1: Application and Maintenance, Second Edition, edited by George E. Totten, Ph.D, FASM, Portland State University, Oregon, USA 2006. This 1,068 page hard cover book is an invaluable resource for lubrication professionals. The book is available for \$250, or at a member price of \$225. You may call 847-825-5536 or email [info@stle.org](mailto:info@stle.org) or [order online](#).

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**7. April 2007 Contents of TRIBOLOGY & LUBRICATION TECHNOLOGY**

20 Minutes with ... Hank Kruschwitz

Throughout his successful career, this former Navy officer is continuing his efforts to promote the industrial advantages and use of grease-thickener systems. By Karl M. Phipps



Lubrication Fundamentals: Risk doesn't have to be a risky business  
Don't let the Fear Fascists run your business or your life. Instead, develop a risk-assessment plan and a scientific strategy for minimizing problems. By Dr. Robert M. Gresham

Feature Article: Hydraulic Fluids: The pressure to perform better  
There's growing concern for the industry to increase the performance of hydraulic applications. But higher production costs and new technological requirements make the task more difficult than ever. By Betty Catalina Rostro and Nancy Nalence

Peer Reviewed Paper (Editor's Choice): Development of a Set of Stribeck Curves for Conformal Contacts of Rough Surfaces. By Yansong Wang, Q. Jane Wang, Chih Lin and Fanghui Shi

Departments:  
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**8. Follow these links to join or renew your membership with STLE**

[To join](#)

[To renew](#)

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**The Society of Tribologists and Lubrication Engineers**

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