



# 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), Oil Monitoring Analyst (OMA) and Certified Metalworking Fluids Specialist (CMFS).

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

JUNE 2005

## Welcome

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

### Las Vegas meeting a winner; Calgary hosts 2006

An exceptionally strong technical program attracted nearly 1500 STLE members to the 2005 Annual Meeting in Las Vegas last week. This turnout represented about a 10% attendance increase from the 2004 meeting in Toronto, and was the largest attendance of the past four years. The four-day business program included 350 technical and commercial presentations, seven education courses that attracted more than 250 students and a busy exhibit hall with more than 80 booths displaying a variety of products and services targeting the tribology and lubricants market. Booth space deposits for the 2006 Calgary show are now being accepted, and initial sales have been brisk. Contact exhibit sales manager [Tracy Nicholas VanEe](#).

STLE extends sincere thanks to all the individuals, companies and organizations that contributed in many different ways to the success of the 2005 meeting. The 2006 Annual Meeting will take place May 7-11 at the Telus Convention Center in Calgary, Alberta, Canada. The Annual Meeting Program Committee is currently soliciting content for STLE 2006, and expects more than 300 technical and practical presentations will be selected for the Calgary program. If you plan to submit an offer form, remember that the deadline is Oct. 1, 2005. The easiest way to submit your proposal is through the online form located on the STLE website: [2006 Offer Form](#).

### Get technical highlights from the Las Vegas program

If you missed the Las Vegas meeting, or just want to stay on top of the latest in technical news and developments, STLE is offering two easy ways to access the program content. A technical proceedings CD, featuring 39 complete research papers in PDF format, is available for \$50 per copy, with free shipping. Another option is the 2005 Las Vegas Program Guide. It provides author and abstract information for all of the more than 300 technical and commercial presentations, as well as exhibitor information. Price: \$25 per Guide, with free shipping. To order, phone Judy at STLE headquarters (847-825-5536) or send an email request to [jenblom@stle.org](mailto:jenblom@stle.org).

### Bill Wambach of R.T. Vanderbilt Co. leads STLE in 2005-06

STLE's new President for 2005-2006 is William E. Wambach, regional account manager for R.T. Vanderbilt Co., Norwalk, Connecticut. Wambach has been involved with STLE for more than 30 years at both the local and national level. Prior to joining the Executive Committee in May 2002, he served as both a Regional Vice President and as a Director. His industry experience includes serving as research director for Hurlburt Oil & Grease Co., technical service manager for R.M. Hollingshead Corp., and commercial development manager for FMC Corp.



Dr. Robert Bruce, GE Aircraft Engines, Cincinnati, Ohio, a dedicated STLE volunteer leader for many years and a Board member since 2001, was elected as the newest member of the Executive Committee. He will serve as STLE Treasurer

### Upcoming Meetings:

STLE's 2006 Annual Meeting



CALGARY • MAY 7-11, 2006

WTC III



E-mail your comments to [STLEUpdate](mailto:STLEUpdate)

in 2005-2006.

### Ready to earn credentials with CLS or OMA?

Candidates planning to take either the Certified Lubrication Specialist (CLS) or Oil Monitoring Analyst (OMA) exam can target several dates this summer and fall when both tests will be offered. You can access information about the certification programs and complete the exam registration form on the STLE website.

Not sure if you're ready for the exam? Try answering these sample questions:

1. These substances, when added to a lubricant, may have a negative effect on lubricant performance.
2. What is the primary cause of failure in hydraulic systems?
3. What are the three fundamental types of lubrication systems used in industry?
4. Too much oil in a bearing housing will cause what type of effect?

(See below for correct answers)

### New program documents MW fluids expertise

STLE now is offering a third professional credential. The Certified Metalworking Fluid Specialist (CMFS) program exam was given for the first time at the 2005 Annual Meeting. The program is intended for individuals who want to document their competency in making recommendations and solving problems related to metalworking fluid selection, application, performance, management and health and safety issues. Detailed information on the new program is available in the Professional Development section of the STLE website.

### Terms of the Profession

**inhibitor** - an additive that improves the performance of a petroleum product through the control of undesirable chemical reactions.

**lubricity** - the ability of an oil

### STLE Board welcomes four new members

Wambach's leadership team will include four new members of the STLE Board of Directors. They are: Director Ali Erdemir, Argonne National Laboratory, and Regional Vice Presidents Kevin Delaney, King Industries (Atlantic/NE), Mike Reining, Dofasco, Inc. (Eastern Canada) and Mike Duncan, BP-Castrol (Midwest). The STLE website features a complete [Board Directory](#).

Retiring from the Board at the Las Vegas meeting were: James Arner (Chevron Global Lubricants), Dr. Selda Gonsel (Shell Global Solutions), Dr. Maureen Hunter (King Industries) and David Scheetz (ExxonMobil).

### Research study will set future directions for STLE

President Wambach and the new Board began the year with a presentation on results of a just-completed membership needs study conducted in April by Association Laboratory, a firm that specializes in research and development of organizational and marketing strategy. The study report, based on responses from a representative group of more than 400 members who participated in the extensive online study, will guide the Board in making decisions about STLE's organizational, marketing and content delivery strategy in the coming years. Among the preliminary findings was a strong desire for STLE to expand its role in developing and disseminating content related to both research and education in the specialized fields of tribology and lubricants. The respondents gave STLE high marks in terms of its reputation, speaker/author expertise and for the opportunity to network with peers.

A Membership Strategy Committee, chaired by former Board member David Scheetz (ExxonMobil), is now working with Executive Director Edward Salek and the Association Laboratory research staff to analyze the detailed findings of the study. The Scheetz Committee will develop a series of strategic recommendations that will be presented to the STLE Board at its next meeting in September. A more complete summary of the study will be published in the July issue of TLT magazine.

### Congratulations to STLE top award winners for 2005

STLE's International Award, the highest honor given by the Society, was presented to two individuals during the Las Vegas meeting.

**Dr. Izhak Etsion** of Technion Institute in Haifa, Israel, has had a distinguished 30-year academic career during which he has been a leader in the field of tribology research. He is the inventor of the laser surface texturing technology that is used today for friction and wear reduction in mechanical face seals of rotating machines and which is being investigated by a number of researchers worldwide for its potential as a means of energy conservation.

**Dr. Andrew Jackson** of ExxonMobil Research and Engineering in Annandale, New Jersey, was honored with the International Award for achievements during the course of thirty years of industrial basic research and service to the engineering technical community. His research on elastohydrodynamic lubrication, rolling contact fatigue, engine lubrication and synthetic lubricants has resulted in 15 patents and over 40 papers, with four best paper awards.

The P.M. Ku Meritorious Award is given to the STLE member who typifies the dedicated spirit of the late P.M. Ku, one of STLE's most respected volunteer leaders. This year's recipient was **Dr. Josiah Knight**, Duke University, Durham, North Carolina, one of STLE's most able and active volunteer leaders for the past decade. His service as an STLE Board member spanned the period from 1995 to 2004, and it included his term as President in 2002-2003.

### Registration begins for September 12-16 WTC-III in Washington

More than 1000 scientific, technical and business leaders from the international tribology and lubricants community will gather in Washington, DC, this fall for the World Tribology Congress. The Tribology Division of the American Society of Mechanical Engineers (ASME) and STLE, in association with the International

or grease to lubricate; also, called film strength. Lubricity can be enhanced by additive treatment.

**metalworking lubricant** - any lubricant, usually petroleum-based, that facilitates the cutting or shaping of metal. Basic types of metalworking lubricants are: cutting and tapping fluids, drawing compounds, etc.

**CLS/OMA Quiz Answers:**

- 1. A dye
- 2. Contamination
- 3. Progressive, dual-line and single-line
- 4. Increase in temperature due to churning of the oil

Visit the **STLE website** at [www.stle.org](http://www.stle.org)

Tribology Council (ITC), are organizing this prestigious event. It will be held September 12-16, 2005, at the Hilton Washington Hotel. The technical program will be comprised of papers submitted by representatives from 61 countries on each of the seven continents. Visit the official [WTC website](#) for program information, meeting registration forms and hotel reservation instructions. STLE members who act prior to the August 26 Early Bird deadline will pay only \$575 for the week-long event – a \$115 savings off the normal fee. One-day registrations are also available.

**Are you ready for this? It's the Tribology Top Ten!**

STLE's Tribology & Lubrication Technology (TLT) magazine created a buzz of sorts in Las Vegas by revealing results of an expert poll that identified the ten greatest events in tribology history. TLT's top ten list included the following technical advances:

1. First Lubricants	6. Synthetic Lubricants
2. The Wheel	7. Additives
3. Laws of Friction	8. Tribotesting
4. Drake's Well	9. Elastohydrodynamic Lubrication
5. Hydrodynamic Lubrication	10. Self-lubricating Materials

To read more about the TLT Top Ten, check your June issue of the magazine. It describes each item on the list and includes an eye-catching poster sponsored by Afton Chemical Corp., which presents these remarkable developments in graphical form.

The Society of Tribologists and Lubrication Engineers

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