



Nov. 22, 2011 — Noon-1 p.m. (With optional Q&A session, 1 p.m.-1:30 p.m.) (Central Time)

### Base Oils: Their Manufacture, Properties, Performance and Applications

This presentation will feature discussion of new types of base oils that have been introduced in recent years. These include high-quality mineral oils, specialty PAOs and vegetable oil-derived esters, as well as gas-to-liquid (GTL) base oils.

\*Cost to attend:  
**\$39 (STLE member)**  
**\$59 (Non-member)**

\* Course cost includes reading and/or reference materials, presentation slides, the recording of the event and the Q&A session summary. Register before **Monday, Nov. 21** at [www.stle.org](http://www.stle.org) or call (847) 825-5536.



**Presenter: Dr. John Rosenbaum**  
Senior Product Development Engineer  
Chevron Global Base Oils  
Richmond, Calif.

#### BIOGRAPHY

Throughout his 30-year career at Chevron Global Base Oils, STLE member **Dr. John Rosenbaum** has stayed on the cusp of technological development for producing higher performing fuels and lubricants. In his early days as a research engineer in synthetic fuels and mineral-processing programs, he managed projects in coal cleaning, tar sands, extraction of complex sulfide ores and direct reduction of iron ores.

After three years in minerals research, John spent the next 17 years researching catalysts and process technologies for improving the chemical and physical properties of fuels and lubricant base oils. During that time, he also spearheaded Chevron's experimental program to make liquid fuels and lubricant base oil from natural gas.

John has served as a member of the original development team for Chevron's ISODEWAXING® Catalyst system that revolutionized the production of cost-effective, high-purity, premium base oils, so he is well-versed in base oils and all they are associated with.

John received a bachelor's degree in chemistry from San Diego State University (1976) and a doctorate in materials science and mineral engineering from the University of California at Berkeley (1981). He is the author or co-author of over 50 U.S. Patents and several publications.

Dec. 14, 2011 — Noon-1 p.m. (With optional Q&A session, 1 p.m.-1:30 p.m.) (Central Time)

### Grease and Its Use in Food Processing

This presentation features an in-depth discussion of what constitutes a grease from both a design and performance perspective. We'll also look at what constitutes a food grade-approved grease, and will briefly review the current issues surrounding the food grade lubricant market.

\*Cost to attend:  
**\$39 (STLE member)**  
**\$59 (Non-member)**

\* Course cost includes reading and/or reference materials, presentation slides, the recording of the event and the Q&A session summary. Register before **Monday, Dec. 12** at [www.stle.org](http://www.stle.org) or call (847) 825-5536.



**Presenter: Wayne Mackwood**  
Grease Technology Manager  
Chemtura Canada Co./CIE  
West Hill, Ontario, Canada

#### BIOGRAPHY

**Wayne Mackwood** is an STLE member who is currently the grease technology manager at Chemtura, where he is responsible for all technical and R&D activities of the company's Sulfonate Grease Technology business.

Wayne graduated from the University of Western Ontario in 1991 with a BESC in materials. He later would receive a MESC in tribology from Western Ontario, which led him to a position in R&D at Chemtura (formerly Witco/Surpass Chemicals) in 1993, primarily supporting their growing Calcium Sulfonate grease business. From 1993 to 2007, he held various technical positions at Chemtura, including research engineer, tribologist, business development manager, technical support engineer and scientist.

In 2007 Wayne worked briefly as a scientist for Kinectrics, a dynamic private testing, research and support company in the power generation industry, before returning to Chemtura.

Wayne has been active with STLE at both the national and local levels. Beginning in 2007, he served on the society's board of directors as STLE's Eastern Canadian Regional Vice President and then as a Director before retiring in 2011. In addition, Wayne has been active with the Executive Committee of STLE's Toronto Section, serving in various positions such as secretary, vice chairman and chairman (2000-2001)

Wayne has authored and co-authored several technical papers. He's also received two patents and given presentations on grease technology at STLE, NLGI, NLGI India and ELGI annual meetings, as well as at local section meetings and education courses.

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