



## Society of Tribologists and Lubrication Engineers

Houston Section

### September 14, 2018 Technical Meeting

### Welcome to STLE Houston Chapter's 2018-2019 Lunch Seminar Series!

Our first technical seminar of the season will be held on **FRIDAY**, September 14, 2018 at Maggiano's Little Italy, starting off with networking at 11 AM. **Steve Twining**, Global Account Manager- Industrials of Perkin Elmer will be presenting "*Harnessing Solid State Detector Technology in Inductively Coupled Plasma to Determine Unknown Elements in a Lubricant Sample*". Please reserve the date!

#### Abstract:

Lubricant plants talk with analytical instrument suppliers when they want a tool to look at elemental content of additives and also when they want to see contaminant elements. An ICP is a great tool for this as it can determine about 72 elements from the periodic table. Most of the time, customers know what's supposed to be in the sample, and they usually know the potential contaminants. So, they can calibrate the system with those elements in mind.

The question comes when someone walks into the lab with an unknown. What do you do? Modern detector technology actually goes back 20+ years to solid state detectors that are used in Astronomy where you're looking for complete unknowns surrounded by the void of Space. In ICP, you can actually look at a sample without calibrating for concentration, and take a "picture" of the sample. That picture can reveal not just that an unknown element is present, but, it can also provide confirmation that the unknown is present by allowing you to see the same element at multiple wavelengths- simultaneously. While detectors like this have existed for decades, instrument microprocessing speeds and CPU memory capability that now exists in the average desktop computer allows the chemist to harness this capability as a normal course of analysis. At the end of the day, when a sample comes into the lab that is a "Whutisit", ICPs using this technology allows the chemist to provide the answer in the form of an elemental fingerprint for that sample.

#### Speaker:

Steve Twining has worked in the Analytical Instrument business for 25 years, and is currently Global Account Manager- Industrials of Perkin Elmer. He has spent the majority of his career with Perkin Elmer, both in the Rocky Mountains and here in Texas, having served as Sales Professional, Sales Team Leader, Regional Key Account Leader, and Global Account Manager. He has a Bachelor of Science in Chemistry from Sam Houston State University.

Steve has been married for 30 years and has a daughter and 3 sons, all grown and taking on the world. He lives in the country, outside of Navasota, Texas and enjoys the outdoors, travelling, and attending football games at Texas A&M.

**Location :** [Maggiano's Little Italy](#), 2019 Post Oak Boulevard, Houston, Texas 77056  
(Note that parking is available in the adjacent shopping center)

#### Schedule:

11:00AM - 11:30AM:	Arrival / Social
11:30AM - 12:00PM:	Lunch
12:00PM - 1:00PM:	Business Meeting and Technical Presentation

**Fees:**

Students \$10, Members \$35, Non-Members \$40

Cash/check/Visa/MC accepted at the door – or **pre-pay** by credit card prior to the meeting using the Paypal link on our [Calendar webpage](#)

Click below for directions.

[Maggiano's Little Italy Website](#)

The STLE Houston Section's Monthly meeting provides a platform to network, advance your knowledge, learn current trends in tribology, lubrication and related industries, share good food, and much more. Do not forget, there will be door prizes for the lucky winners of the day. Come early and network with your lubricant colleagues.

### **STLE Houston Section Calendar of Events (2018 - 2019)**

Please note that Technical Meetings have been moved to **FRIDAYS**

September 14, 2018	Steve Twining of Perkin Elmer will be presenting <i>"Harnessing Solid State Detector Technology in Inductively Coupled Plasma to Determine Unknown Elements in a Lubricant Sample."</i>	Maggiano's Little Italy
September 18-20, 2018	Houston Section STLE booth at the Texas A&M Turbomachinery & Pump Symposia (TPS)	George R. Brown Convention Center <a href="https://tps.tamu.edu/">https://tps.tamu.edu/</a>
October 12, 2018	Jeff Weikert of Beckman Coulter will present <i>"Liquid Particle Counting"</i>	Maggiano's Little Italy
November 1, 2018	Annual Scholarship Golf Outing	Augusta Pines, Spring, TX
November 9, 2018	Chris Haught of Esco Products will present <i>"Tools Used in the Oil Reservoir"</i>	Maggiano's Little Italy
December 14, 2018	To be Confirmed	Maggiano's Little Italy
January 11, 2019	To be Confirmed	Maggiano's Little Italy
February 8, 2019	Ricardo Gomes, Evonik, <i>"Construction Equipment Efficiency"</i> or <i>"PPD Challenge in 0W-16"</i>	Maggiano's Little Italy
March 6, 2019	2019 Annual Houston STLE Lube School	Sasol Performance Chemicals, Houston, TX
April 12, 2019	STLE President Greg Croce will be presenting about <i>STLE Update</i> and <i>TBD</i>	Maggiano's Little Italy
May 10, 2019	Dr. T. Randall Lee of the University of Houston will present <i>"Lube and Tribology at UH"</i>	Maggiano's Little Italy
May 19 – 23, 2019	STLE 2019 Annual Meeting & Exhibition	Omni Nashville Hotel, Nashville, TN
September TBD, 2019	First Technical Meeting of the new season	TBD

