

# STLE Educational Seminar 2020



## **“Lubrication in the Industry: Basics, Selection, Operation and Condition Monitoring”**

Hosted by the Society of Tribologists and Lubrication  
Engineers

Canton Ohio Section ([www.stlecanton.org](http://www.stlecanton.org))

Wednesday, March 11, 2020

Kent State Conference Center - North Canton

<http://stark.kent.edu/conferencecenter/>

- STLE brings together managers, engineers, scientists, students, technicians and craftspeople to learn and share "best practices" associated with the design and operation of modern machinery and equipment. STLE provides networking opportunities for individuals in every sector of the lubrication and condition monitoring field. Our educational seminars provide exposure to state-of-the-art knowledge and technical information.
- Our seminar targets all levels of maintenance personnel from the shop floor to the front office, including engineering, research and development, production floor, end users and suppliers.
- Breakfast, lunch and refreshments provided.
- The meeting fees for the seminar:
  - STLE Members - \$175.00
  - Non-Members - \$199.00
  - Students - \$99.00
- The meeting fees for the seminar can be paid by
  - Cash or Check
  - Credit Card

If you're interested in an affordable, local seminar, please e-mail an officer: Mano Chockalingam ([mm420@zips.uakron.edu](mailto:mm420@zips.uakron.edu)) or Nikhil Londhe ([nikhil.londhe@timken.com](mailto:nikhil.londhe@timken.com))

**Last date of registration on Mar 6, 2020**

# Seminar Topics

## Lubrication – From a mechanical engineer’s lens

Mr. Tom Triola – The Timken Company  
Principal Application Engineer, Customer Engineering

## Lubrication Basics

Kuldeep K. Mistry, PhD – The Timken Company  
Product Development Specialist, R&D

## Lubricant Chemistry

Mr. John Nussbaumer  
Metalworking Specialist

## Students’ poster and networking

## Tribology Basics

Carl H. Hager, PhD – The Timken Company  
Tribology Specialist, R&D

## Lubrication Condition Monitoring – Managing a Successful Program

TestOil (Insight Services)

# Agenda

## STLE Educational Seminar 2020

Date: Mar 11, 2020 (Wednesday)

Time: 8:00a to 5:00p

Location: Hoover Seminar room  
 Conference Center  
 Kent State University at Stark  
 6000 Frank Avenue NW  
 North Canton, OH 44720

8:00a	<b>Registration, Hot Breakfast, Networking</b>
8:50a	<b>Introduction</b> Mr. Tom Triola – STLE Canton Section Chairperson
9:00a	<b>Lubrication – From a mechanical engineer’s lens</b> Mr. Tom Triola – The Timken Company Principal Application Engineer, Customer Engineering
10:00a	<b>Lubrication Basics</b> Kuldeep K. Mistry, PhD – The Timken Company Product Development Specialist, R&D
11:00a	Networking Break
11:15a	<b>Lubricant Chemistry</b> Mr. John Nussbaumer Metalworking Specialist
12:15p	<b>Seminar Photoshoot</b>
12:30p	<b>Networking Lunch</b>
1:30p	<b>Students’ Posters</b>
2:00p	<b>Tribology Basics</b> Carl H. Hager, PhD – The Timken Company Tribology Specialist, R&D
3:00p	Networking/Refreshments Break
3:15p	<b>Lubrication Condition Monitoring – Managing a Successful Program</b> Mary Messuti                                      Heather Vercillo, CLS President, TestOil                                      CX & Marketing Coordinator, Test Oil
4:15p	<b>Closure, Certificate Distribution</b>
4:45p	<b>Wrap-up</b>

\*Each speaker slot includes 15 minutes of Q&A

# “Lubrication in the Industry: Basics, Selection, Operation and Condition Monitoring”

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**(Preliminary) Speakers Biography/Abstract**

**Topic: Lubrication – From a mechanical engineer’s lens**

**Mr. Tom Triola**

Principal Application Engineer

The Timken Company

Tom Triola is a Principal Application Engineer with the Timken Company involved with bearing model development and application review for OEM customers. Tom holds a BSME for The University of Akron, 1979. Tom’s 19 years thus far with Timken have been involved with applying all bearing types to applications in several industries including agricultural equipment (current), process industries (steel mills) and aircraft landing wheel bearings. Prior to this Tom worked for 20 years for an aircraft wheel and brake manufacturer. Tom and his wife reside in the Canton, OH area. They have 5 grown children and 4 grandchildren with 2 more expected this summer.

**Topic: Lubrication Basics**

**Dr. Kuldeep Kishore Mistry**

Product Development Specialist

The Timken Company

Dr. Kuldeep Kishore Mistry received his bachelor’s degree in industrial engineering, India and a master’s of science degree and a doctorate, both in mechanical engineering, from the University of Leeds in the UK. Mistry is a Timken’s product development specialist (engineering lubrication) and been with Timken for 7 years. Mistry joined the STLE board of directors in May 2019.

**Topic: Tribology Basics**

**Dr. Carl H. Hager**

Tribology Specialist, R&D

The Timken Company

Education - Bachelors of Science in mechanical engineering, and Masters of Science in engineering science and mechanics from Penn State University. Ph.D. in engineering from Wright State University.

Worked as a research engineer at Wright Patterson Air Force Base in the Materials and Manufacturing Directorate, in the Non-structural Materials Branch for 6 years prior to working at Timken for the past 12 years.

**Topic: Lubricant Chemistry**

**Mr. John Nussbaumer**

Metalworking Specialist

Mr. John Nussbaumer earned his Bachelors of Arts in Chemistry in 2012. He has worked in the metalworking industry for the past 14 years mainly in product/additive development for Dover Chemical and Etna Products. He has been an member of STLE since 2009 and is a post chairperson for the Canton section.

## **Topic: Lubrication Condition Monitoring – Managing a Successful Program**

### **Mary Messuti**

President

TestOil

Mary is a result driven industrial business leader hailing from West Virginia with a B.S. in Industrial Engineering and an M.S. in Operations Management. She has a proven record of success in global markets through leading TestOil, Shaefer's Electrical Enclosures, Piper Aircraft as well as others. She values a heavy focus on customer intimacy solutions through her greater than 20 years of P&L leadership in both union and non-union businesses. Mary utilizes creative strategic problem-solving with laser focus on growing businesses upwards of 33% by leveraging market positions and disciplined expense management. Mary has championed Lean and 6 Sigma implementations.

### **Heather Vercillo, CLS**

CX & Marketing Coordinator

TestOil

Heather Vercillo is a Certified Lubrication Specialist who has played a significant role at TestOil as a Technical Operations Engineer, Data Analyst, and now, CX & Marketing Coordinator. She has been responsible for developing TestOil's Material Identification Analysis and Deposit Classification test offerings to determine the root cause of machine or lubricant failure. She has also played a key role in ensuring TestOil's processes are meeting the scope of our lab's ISO 17025 accreditation via chairing an ASTM group, and keeps her knowledge sharp by participating in the CLS Committee. Heather has been a guest presenter at several industry events hosted by entities such as Noria and STLE, where she has discussed these specialized test methods and root cause analysis practices. She has also hosted several webinars and training sessions with the goal of helping customers better understand their lubrication systems.