

Canton Section - Technical Meeting Notice

Title: Taking the Pulse of Your Metalworking Fluid



SPEAKERS: Bryan J. Cramer & John J. Nussbaumer, Etna Products

Bryan Cramer has over 20 years of experience in the practical application of coolants. Originally a specialist in the application of high pressure coolant, and considered a subject matter expert on gun drilling and deep hole drilling, Bryan's expertise has broadened to include conventional coolant applications and general metalworking fluids. Bryan has worked with General Electric's Aircraft Engine group to document cutting forces and the effect of coolant pressures from 1000 psi to 5000 psi. Having also partnered with Rolls Royce and Seco Tools in the U.K., Bryan has some unique perspectives on the marrying of turning tools with their coolants for best performance. Other R&D partners for Bryan include General Dynamics, Pratt & Whitney Aircraft Engine, Mori Seiki-DMG, Doosan, and Kennametal Cutting Tools. Through the years Bryan has developed processes for marrying the operator, CNC machine, coolant system, coolant, and programming into an overall production process. Coolant management is an integral part of the process and has a significant effect "when the rubber meets the road".

John Nussbaumer has 13 years of experience in the metalworking industry. John began his career as part of a group of chemists developing additives for formulators. As part of this group, he developed the processes for chemical reactions in a plant environment, developed testing procedures to evaluate additives. John has also made commercial presentations to STLE groups regarding the performance of metalworking fluids. In his latest role John leads a lab staff in the development of finished metalworking fluids focused on high pressure coolants for various CNC machines. John received his B.A. in chemistry from Kent State University. He has been an active member of STLE since 2009 and has presented several papers at various national meetings. He has also been a contributor to several TLT articles.

ABSTRACT:

As metalworking processes become more complex, and faster speeds and feeds are required, how do you get the most out of your tooling? Many machine shops rely on their suppliers of metalworking fluids to provide weekly testing of the fluid to determine how the fluid is performing and try to predict how the fluid will perform in the future. However, it is not always clear how the testing results apply to the metalworking fluid. In this presentation we will discuss various testing results for both oil and water based metalworking fluids. Using the presented results, we will discuss how they can affect the life of the fluid as well as the various chemistries that are used in these fluids to better determine the next steps of maintaining the fluid.

DATE: September 5, 2019 (Thu)

NETWORKING: 5:30 – 6:00 p.m.
DINNER: 6:00 – 6:45 p.m.
PRESENTATION: 6:45 – 7:45 p.m.

LOCATION:

Courtyard Canton
4375 Metro Cir NW,
North Canton, OH 44720
(330) 494-6494

MEETING FEES:

STLE MEMBERS: \$20.00
NON-STLE MEMBERS: \$25.00
STUDENT MEMBERS: \$5.00

*Meeting Fees Payment options:
Cash or Check
Or pay online: www.stlecanton.org*

Entrée options for Dinner

1. Bruschetta Chicken
2. London Broil
3. Parmesan Crusted Tilapia
4. Vegetable Stir Fry

Contact tom.triola@timken.com or mm420@zips.uakron.edu to **confirm your reservations with selection of entrée.**

The Reservation Deadline is August 30, 2019 (Fri).

"No-shows" may be billed if the reservation is not cancelled by Sep 3, 2019 (Tue).

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