

# *The Officers of SME Chapter 079 Announce Our June 2009 Technical Presentation*



## **"Machine Process Optimization"**

By: Gary Rodak, President of Machining Efficiencies Inc. (MEI), Gregory, Michigan

**Date:** Thursday, June 18<sup>th</sup> 2009

**Time:** 6:00 PM – Gathering and Networking  
6:30 PM – Chapter Business  
6:45 PM – Presentation  
9:00 PM – Adjournment

**Location:** Ann Arbor District Library - Malletts Creek Branch, Meeting Room B  
3090 E. Eisenhower Pkwy.  
Ann Arbor, MI 48104  
<http://www.aadl.org/aboutus/mallettscreek>  
Phone: (734) 327-4200

### **Directions:**



From Detroit and south of Ann Arbor, travel to I-94, West. Take exit 177 for State St. Turn right on State St. and travel 0.3 miles. Turn right onto E. Eisenhower Pkwy. Travel 1.0 miles and the Library will be on your right. From

the Flint area, travel south on US-23. Take the US-23/14 exit toward Plymouth and then the US-23 Southbound. Exit 37B for Washtenaw Ave. and Turn right. Travel 0.5 miles and turn left onto South Huron Pkwy. Travel 0.8 miles and turn right onto Packard Rd. Travel 0.5 miles and Packard Rd. becomes Eisenhower Pkwy. Note: Eisenhower Pkwy. will be divided from this point forward. Travel 0.2 miles. You will see the Library on the other side of Eisenhower Pkwy., however, you must drive past and make a "Michigan Left". Now on Eisenhower Eastbound, the Library will be on your right.

## **Summary**

Machining processes are an integral element of manufacturing excellence. Each has its unique issues including plant practices, technical knowledge, attention to detail, quality requirements and production criteria. To achieve machining process optimization, an overall knowledge of the interactions of machine tools, tool geometry and coatings, filtration, metalworking fluids, and metallurgy are necessary. A sound methodology begins with understanding tool wear patterns and the initial failure modes. Knowing these modes will lead engineers to an investigation pathway that is comprehensive, accurate and time efficient.

In his presentation, Gary Rodak will introduce a proven methodology for optimizing machining process efficiencies stressing the following key points:

- Quickly assessing machining problems
- Identifying and documenting sub-optimized practices
- Reducing cycle times
- Effectively defining all cost components of the manufacturing process
- Recognizing 9 key elements impacting cost components
- Addressing five key disciplines impacting manufacturing efficiency

## **About Our Speaker**

Gary Rodak is president of Machining Efficiencies Inc. (MEI) of Gregory, Michigan. He is a recognized expert in the study and optimization of tool wear and related machining behavior. Gary has served in the metal cutting industry as a field engineer, technical service department manager, quality manager, product development manager, chemical commodity program manager for metalworking fluid formulators, and as a broach tool designer. The principal work of MEI is to provide manufacturing consulting and educational programs that focus on improving the efficiency of any machining process. These programs feature systematic approaches to identifying and correcting sub-optimized manufacturing practices. Gary holds a BSME from the New Jersey Institute of Technology and is certified through SME as a Manufacturing Engineer (CMfgE) and through the STLE as a Metalworking Fluid Specialist (CMFS). You can contact Mr. Rodak with questions at [Gary.Rodak@MachiningEfficiencies.com](mailto:Gary.Rodak@MachiningEfficiencies.com).

## **Admission:**

No fee

## **Recertification:**

Attendees will earn credits/RCUs toward renewal of SME/ASQ certifications.

**Space for this unique event is limited. Make your reservation today!**

**RSVP to:** [smechapter79@gmail.com](mailto:smechapter79@gmail.com)