



## WHO SHOULD ATTEND?

Maximizing Magnesium Machining Seminars are an essential part of Master Chemical Corporation's educational program for the metalworking

industry. These seminars are designed for high level and/or key decision making personnel from middle management concerned with machining magnesium, waste minimization, coolant management, and coolant related manufacturing improvements, cleaners, and rust preventatives.

- Plant Superintendents
- Production Managers
- Process Engineers
- Tool Engineers
- Supervisors
- Manufacturing Engineers
- Industrial Engineers
- Industrial Hygienists
- Coolant Specialists
- Coolant Committee Members
- Union Representatives

## KEEPING YOU AHEAD OF THE GAME

Training is one of the best investments you can make. Improved productivity, effectiveness, and enhanced morale are good reasons for achieving your training goals. It's about moving ahead by staying in touch with the latest developments. New technologies, new information, and new realities mean that every day we face a somewhat different challenge than we did the day before. We, at Master Chemical, take stock in those changes and help you meet the challenges through our extensive training programs.

*Master Chemical Corporation's seminars are first and foremost an educational experience for those who like ideas and enjoy solving problems. Manufacturing Engineers and Manufacturing Technologists Certified by the Society of Manufacturing Engineers of Dearborn, MI may receive eight hours recertification credits for attending Master Chemical Corporation's Maximizing Magnesium Machining Field Seminar.*



*Clyde A. Sluban -founder*

**For more information contact your Master Chemical Distributor:**

# Maximizing Magnesium Machining



## Field Seminars



**master CHEMICAL CORPORATION**

501 West Boundary  
PO Box 10001  
Perrysburg, Ohio 43552-3001  
Phone: 419-874-7902  
Fax: 419-874-0684

[www.masterchemical.com](http://www.masterchemical.com)

*Fluid Solutions for Metalworking*



QS9000 Certification  
Certificate No.: 53932



## Master Chemical Seminars – high quality, value oriented, and convenient training opportunities

Master Chemical began holding comprehensive two-day VIP Coolant Management Seminars in 1972. These seminars were designed to give our customers the **facts** about the selection, application, and management of water miscible cutting and grinding fluids, how to select the correct fluids for their operations, and how to obtain the maximum productivity while minimizing waste.

Since 1972 over 10,000 metalworking professionals have attended VIP Seminars at our Perrysburg, Ohio, Seminar Center. Our seminars continue to be popular and well attended. However, now that we are in the 21st Century many customers are running with a **very** lean staff and it is difficult for many metalworking managers to devote two days **and** the travel time necessary to attend even the most valuable technical seminar.

In answer to our customers' needs, Master is now conducting one-day Maximizing Magnesium Machining Seminars in major metalworking markets throughout North America. Hosted by your local TRIM® Distributor, they remain fast paced, largely noncommercial, and still provide the **facts** about magnesium machining fluid selection, application, and management. These seminars can even be customized to your specific needs and held at your facilities.

All one-day programs offer concise, highly informative, audio-visually supported lectures, and demonstrations, as well as practical and profitable discussion periods which encourage participants to both initiate and become involved in the free exchange of ideas. Maximizing Magnesium Machining Seminars are offered free of charge to invited attendees. Seminars begin promptly at 8:00 a.m. and conclude prior to 5:00 p.m.



The primary objective of our seminars is to share with the participants a wide range of technical information regarding magnesium machining, magnesium parts cleaning compounds, and corrosion inhibiting fluids. Throughout the discussions there is a constant emphasis on fluid management techniques and minimizing the disposal of all fluids so that manufacturing

costs are reduced and yet the manufacturer can remain in full compliance with even more stringent environmental regulations. Properly managed fluids **contribute** to increasing productivity and decreasing costs. And the content of the seminar reflects information that has been compiled from over 50 years of research and studies in the metalworking industry and proves just that.

### PROGRAM CONTENT

#### Introduction to Metalworking Fluids

- Characteristics of magnesium machining
- Demonstrations
- Coolant management

#### Financial Return

- Cutting/noncutting functions of coolants and their effects on plant profitability
- Metalworking trends

#### Fluid Chemistry & Composition of Metalworking Fluids

- Demonstrations

#### Compatibility

##### Water

- Demonstration – effects of dissolved minerals on coolants
- Water treatment: softening vs. deionization vs. reverse osmosis
- Economics of water purification

#### Microbiology

- Methods of bacteria control
- Video presentation on machine cleaning
- Tramp oil removal: skimmers/coalescers vs. high-speed centrifuges

#### Filterability

- Video – “Influence of Tramp Oils on Filterability”
- Corrosion: causes and control
- Coolant residues and their effects on machines

#### Health and Safety

- Coolant effects on various operations
- Magnesium fire prevention
- Magnesium chip management and control

#### Cleaners and Rust Preventatives

- Trends, selection, and application

#### Acceptability

##### Coolants from the Machine Operator's Viewpoint

- Dermatitis: causes and prevention
- Toxicity: procedures for determining product safety
- “Right-to-know” regulations

#### Waste

##### Minimization

##### Disposability

- Disposal techniques

##### Minimization of waste

- Coolant recycling – definitions and requirements for waste reduction
- Explanation of coolant recycling systems
- Tramp oil control
- Recycling systems' return on investment

#### Closing

- What else can we do for you and your organization?

