

SME GEAR MANUFACTURING CLINICS

February 3-4. Basic Gear Design & Manufacturing. The Ambassador West Hotel, Chicago, IL. This clinic will cover the basic concepts of gear design and manufacturing processes, including the preliminary design process, gear design optimization, design as related to tool life, gear inspection and more. For beginning designers, technicians, project and process control engineers and other professionals for whom a basic understanding of gear design is vital.

February 5-6. Heat Treating & Hardening of Gears. The Ambassador West Hotel, Chicago, IL. This clinic will discuss the basics of induction hardening and alternative heat treating methods, how to evaluate various methods, how to better control and monitor the process and hardness during heat treatment. The clinic is designed for any professional involved in any aspect of heat treating processes, quality control, materials development or industrial operations in gear manufacturing.

For information about these clinics, contact Cherrie Bacon at 313-271-1500, x358 or e-mail her at bacoche@sme.org.

**ESD—THE ENGINEERING SOCIETY
COMBINED CONFERENCE &
EXHIBITION**

April 7-10. United New Generation Vehicles Conference & Exhibition—Composites, Coatings & Concepts. The Westin Hotel, Detroit, MI. These combined conferences and exhibitions will provide a forum and act as a catalyst to promote global commercialization of vehicles with improved materials, design, manufacturing, safety and environmental compatibility. The Advanced Composites Conference & Exhibition will present an overview of the latest developments in advanced composites technologies for the transportation industry. The Advanced Coatings Technology Conference & Exhibition will cover current coatings technologies, and the Environmental Vehicles Conference & Exhibition will address the multiple challenges in the alternative fuels and advanced vehicle technology arenas.

For more information, contact Kristin Karschnia, 810-355-2910.

AGMA GEAR SCHOOLS & CLINICS

April 7-11. AGMA Gear School. Daley College, Chicago, IL. This one-week course is designed for employees with at least six months' experience in setup or machine operation, and it covers setup, gear inspection, gear calculations and basic gear manufacturing principles.

April 24-25. Hob Sharpening Clinic. This day-and-a-half clinic covers the basics of hob sharpening.

For more information, contact Susan Fentress at AGMA. Phone 703-684-0211 or fax 703-684-0242. ⚙

Tell Us What You Think...
If you found this article of interest and/or useful, please circle 209.

**Concerns About
Gear Noise?**

The ITW Heartland burnishing machines are the answer to gear noise caused by plus material.

Removal of gear defects on the active profile created by plus material (nicks, burrs, scale) along with surface finish enhancement gives added value to production gears. Our heavy duty, long lasting burnishers can be set-up as a dedicated, in-line machine, or as an off-line machine doing different gears of similar size.



ITW pioneered the gear burnishing industry in 1955, and remains the worldwide leader in gear burnishing. The ITW Heartland **Gerac Burnishing System** has been the worldwide standard for burnishing since being patented. Find out how we can help you with your gear quality improvement.

Visit our website at www.gctel.com/~itwgears/itwheart.htm

- ALSO EQUIPPED FOR • Automatic Inspection
- Semi-Automatic Inspection • Computerized Gear Analyzers
- Manual Gear Rolling • Dimension Over Pins / Balls

ITW Heartland

3401 South Broadway
Alexandria, MN 56308 USA
Phone: 320-762-8782 • Fax: 320-762-5260
email: itwgears@gctel.com

CIRCLE 110 or call 1-800-340-1160 x9110