

March Technical Presentation

March 8th 6:00 p.m.

"Improving Distortion and Service Life of Metal Components Using Sub-Harmonic Vibrations"

Thomas E. Hebel

Mr. Hebel has been with Bonal for over 30 years, During this time he has authored seven feature articles in trade magazines (including one cover story) and has given numerous speeches across the United States and Canada on the topic " Improving Distortion and Service Life of Metal Components by Using Sub Harmonic Vibrations.

Bonal Technologies developed the parameters for using vibrations to achieve "consistent" distortion control following machining , which has always been a problem with other vibratory stress relief processes. This accomplishment was the result of years of trial and error research with Bonal's own Planer-Mill Machine Shop. The process is called "meta-lax". Since it's original development the process has been refined enabling it to treat aluminum, tool steel, and exotic steel alloys, and also be used "during welding" for the purpose of preventing distortion and improving weld quality. Today the Meta-Lax process has been specified in manufacturing some of the world's highest quality parts, including the nose-cone of the space shuttles, parts on the Hubble Deep Space Telescope that took those incredible photos from Mars, and gyroscope housings on asteroid blasters.

February Technical Presentation "Designing for Die Casting"

Mark Stuligross

February 8th 6:00 p.m.

Mark will talk about Reducing cost of components by using Dynacast's high-speed multi-slide die casting technology. He will also discuss how to convert costly fabricated, machined, molded, stamped, and forged components to net-shape die castings. Dynacast is the world leader in precision die-casting of zinc, aluminum and magnesium alloys. Dynacast's roots lies in a proprietary multi-side die-casting process and conventional hot and cold chamber die-casting methods.

SME Chapter 69 Oakland/Macomb



FEBRUARY 2006 BULLETIN

CMfgE Certification Program"

This winter, SME Chapter 69 Oakland/Macomb will sponsor CMfgE Review Course & Exam Program to help you obtain this valuable credential of Manufacturing Expertise:

Certified Manufacturing Engineer, CMfgE is a program for professional documentation and recognition of your manufacturing related knowledge, skills, & capabilities. It also provides the means for keeping this knowledge up to date.

If interested, contact Chapter 69 directly for Application Form, Practice Exam, Textbook, & Skills Assessment. Direct your questions to : (586) 228-9700 Ext. 315, or lsmith@michpro.com

CMfgE Review Course and Exam

Review Course Coordinator: Larie Smith, Certification Chair - (W)
(586)228-9700 Ext. 315

e-mail: lsmith@michpro.com

Before the Review Session Begins. Contact a Certification Team Member for a

Preview Session: Get questions answered, advice on a Personal Study Plan, Application Form completed, & other materials.

Friday, Jan 13, 2006, 6:00 p.m. - 8:00 p.m. at Oakland Community College (OCC) 2900 Featherstone Road, Auburn Hills.

Subject: Review Session

Friday, Feb 3, 2006, 6:00 p.m. - 8:00 p.m. at OCC Auburn Hills.

Subject: Review Session

Friday, Feb 24, 2006, 6:00 p.m. - 8:00 p.m. at OCC Auburn Hills.

Subject: Review Session

Friday, Mar 17, 2006, 6:00 p.m. - 8:00 p.m. at OCC Auburn Hills.